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Cover Page

Order ID : Q2074

Project ID : South River WM Replacement

Client : CDM Smith

Lab Sample Number	Client Sample Number
Q2074-01	TP-12
Q2074-02	TP-7
Q2074-03	TP-15
Q2074-04	TP-20
Q2074-05	TP-38
Q2074-06	TP-19
Q2074-07	TP-40
Q2074-08	TP-18

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

Signature : _____

Date: 5/24/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

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 is 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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q2074**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **PATEL VAISHALI** **Date:** **05/24/2025**

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LAB CHRONICLE

OrderID:	Q2074	**OrderDate:**	5/16/2025 3:13:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	L31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2074-01	**TP-12**	**SOIL**			**05/15/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/22/25	
Q2074-02	**TP-7**	**SOIL**			**05/15/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/21/25	
Q2074-03	**TP-15**	**SOIL**			**05/15/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/22/25	
Q2074-04	**TP-20**	**SOIL**			**05/15/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/21/25	
Q2074-05	**TP-38**	**SOIL**			**05/15/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/22/25	
Q2074-06	**TP-19**	**SOIL**			**05/15/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/21/25	
Q2074-07	**TP-40**	**SOIL**			**05/15/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/22/25	
Q2074-08	**TP-18**	**SOIL**			**05/16/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/22/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2074

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID : TP-12									
Q2074-01	TP-12	SOIL	Acenaphthylene		90.100	J	34.5	200	ug/Kg
Q2074-01	TP-12	SOIL	Phenanthrene		110.000	J	25	200	ug/Kg
Q2074-01	TP-12	SOIL	Fluoranthene		800.000		35.8	200	ug/Kg
Q2074-01	TP-12	SOIL	Pyrene		630.000		43	200	ug/Kg
Q2074-01	TP-12	SOIL	Benzo(a)anthracene		300.000		27.5	200	ug/Kg
Q2074-01	TP-12	SOIL	Chrysene		370.000		23.8	200	ug/Kg
Q2074-01	TP-12	SOIL	Benzo(b)fluoranthene		450.000		22.7	200	ug/Kg
Q2074-01	TP-12	SOIL	Benzo(k)fluoranthene		91.000	J	26.8	200	ug/Kg
Q2074-01	TP-12	SOIL	Benzo(a)pyrene		310.000		35.2	200	ug/Kg
Q2074-01	TP-12	SOIL	Indeno(1,2,3-cd)pyrene		120.000	J	34.8	200	ug/Kg
Q2074-01	TP-12	SOIL	Benzo(g,h,i)perylene		140.000	J	30.7	200	ug/Kg
			Total Svoc :		**3,411.10**				
Q2074-01	TP-12	SOIL	1-Hexacosene	*	92.800	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB	0	0	ug/Kg
Q2074-01	TP-12	SOIL	4H-Cyclopenta[def]phenanthrene	*	340.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Benzo[e]pyrene	*	230.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Benzophenone	*	170.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Decahydro-1,1,4a,5,6-pentamethy	*	130.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Fluoranthene, 2-methyl-	*	150.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Phenanthrene, 2,5-dimethyl-	*	130.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Phenanthrene, 2,7-dimethyl-	*	84.800	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Phenanthrene, 2-methyl-	*	290.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Pyrene, 1-methyl-	*	92.400	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Pyrene, 4-methyl-	*	90.800	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Undecane, 2,6-dimethyl-	*	88.400	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	unknown12.510	*	110.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Oxalic acid, cyclobutyl pentadecy	*	85.200	J	0	0	ug/Kg
			Total Tics :		**2,334.40**				
			Total Concentration:		**5,745.50**				
Client ID : TP-7									
Q2074-02	TP-7	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	270.000	AB	0	0	ug/Kg
Q2074-02	TP-7	SOIL	Benzophenone	*	180.000	J	0	0	ug/Kg
Q2074-02	TP-7	SOIL	Heptadecyl trifluoroacetate	*	140.000	J	0	0	ug/Kg
Q2074-02	TP-7	SOIL	n-Hexadecanoic acid	*	380.000	J	0	0	ug/Kg
Q2074-02	TP-7	SOIL	Octadecanoic acid	*	89.300	J	0	0	ug/Kg
			Total Tics :		**1,059.30**				

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Hit Summary Sheet
SW-846

SDG No.: Q2074

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
			Total Concentration:		**1,059.30**				
Client ID : TP-15									
Q2074-03	TP-15	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	230.000	AB	0	0	ug/Kg
Q2074-03	TP-15	SOIL	Benzophenone	*	450.000	J	0	0	ug/Kg
Q2074-03	TP-15	SOIL	Methanone, (1-hydroxycyclohexy	*	84.200	J	0	0	ug/Kg
Q2074-03	TP-15	SOIL	n-Hexadecanoic acid	*	210.000	J	0	0	ug/Kg
Q2074-03	TP-15	SOIL	Trifluoroacetoxy hexadecane	*	150.000	J	0	0	ug/Kg
			Total Tics :		**1,124.20**				
			Total Concentration:		**1,124.20**				
Client ID : TP-20									
Q2074-04	TP-20	SOIL	Fluoranthene		87.400	J	35.5	200	ug/Kg
			Total Svoc :		**87.40**				
Q2074-04	TP-20	SOIL	1-Docosene	*	180.000	J	0	0	ug/Kg
Q2074-04	TP-20	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	270.000	AB	0	0	ug/Kg
Q2074-04	TP-20	SOIL	Benzophenone	*	500.000	J	0	0	ug/Kg
Q2074-04	TP-20	SOIL	Methanone, (1-hydroxycyclohexy	*	89.600	J	0	0	ug/Kg
Q2074-04	TP-20	SOIL	n-Hexadecanoic acid	*	330.000	J	0	0	ug/Kg
			Total Tics :		**1,369.60**				
			Total Concentration:		**1,457.00**				
Client ID : TP-38									
Q2074-05	TP-38	SOIL	Bis(2-ethylhexyl)phthalate		100.000	J	72.1	210	ug/Kg
			Total Svoc :		**100.00**				
Q2074-05	TP-38	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	300.000	AB	0	0	ug/Kg
Q2074-05	TP-38	SOIL	Benzophenone	*	250.000	J	0	0	ug/Kg
Q2074-05	TP-38	SOIL	Hentriacontane	*	86.900	J	0	0	ug/Kg
Q2074-05	TP-38	SOIL	Heptafluorobutyric acid, pentadec	*	120.000	J	0	0	ug/Kg
Q2074-05	TP-38	SOIL	Hexacosane	*	86.900	J	0	0	ug/Kg
Q2074-05	TP-38	SOIL	n-Hexadecanoic acid	*	360.000	J	0	0	ug/Kg
			Total Tics :		**1,203.80**				
			Total Concentration:		**1,303.80**				
Client ID : TP-19									
Q2074-06	TP-19	SOIL	1-Hexacosene	*	140.000	J	0	0	ug/Kg
Q2074-06	TP-19	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	240.000	AB	0	0	ug/Kg
Q2074-06	TP-19	SOIL	Benzophenone	*	190.000	J	0	0	ug/Kg
Q2074-06	TP-19	SOIL	n-Hexadecanoic acid	*	180.000	J	0	0	ug/Kg
			Total Tics :		**750.00**				
			Total Concentration:		**750.00**				
Client ID : TP-40									

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Hit Summary Sheet
SW-846

SDG No.: Q2074

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2074-07	TP-40	SOIL	Phenanthrene		140.000	J	23.4	190	ug/Kg
Q2074-07	TP-40	SOIL	Fluoranthene		440.000		33.6	190	ug/Kg
Q2074-07	TP-40	SOIL	Pyrene		300.000		40.3	190	ug/Kg
Q2074-07	TP-40	SOIL	Benzo(a)anthracene		180.000	J	25.8	190	ug/Kg
Q2074-07	TP-40	SOIL	Chrysene		200.000		22.3	190	ug/Kg
Q2074-07	TP-40	SOIL	Benzo(b)fluoranthene		320.000		21.3	190	ug/Kg
Q2074-07	TP-40	SOIL	Benzo(k)fluoranthene		79.100	J	25.1	190	ug/Kg
Q2074-07	TP-40	SOIL	Benzo(a)pyrene		200.000		33	190	ug/Kg
Q2074-07	TP-40	SOIL	Indeno(1,2,3-cd)pyrene		86.900	J	32.6	190	ug/Kg
Q2074-07	TP-40	SOIL	Benzo(g,h,i)perylene		110.000	J	28.8	190	ug/Kg
			Total Svoc :		**2,056.00**				
Q2074-07	TP-40	SOIL	1-Eicosene	*	80.600	J	0	0	ug/Kg
Q2074-07	TP-40	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0	0	ug/Kg
Q2074-07	TP-40	SOIL	Anthracene, 2-methyl-	*	160.000	J	0	0	ug/Kg
Q2074-07	TP-40	SOIL	Benzo[e]pyrene	*	140.000	J	0	0	ug/Kg
Q2074-07	TP-40	SOIL	Benzophenone	*	150.000	J	0	0	ug/Kg
			Total Tics :		**740.60**				
			Total Concentration:		**2,796.60**				
Client ID :	**TP-18**								
Q2074-08	TP-18	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	270.000	AB	0	0	ug/Kg
Q2074-08	TP-18	SOIL	Benzophenone	*	200.000	J	0	0	ug/Kg
Q2074-08	TP-18	SOIL	n-Hexadecanoic acid	*	180.000	J	0	0	ug/Kg
Q2074-08	TP-18	SOIL	Trifluoroacetoxy hexadecane	*	150.000	J	0	0	ug/Kg
			Total Tics :		**800.00**				
			Total Concentration:		**800.00**				

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SW-846

SDG No.: Q2074

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
PB168083BL	PB168083BL	2-Fluorophenol	150	114	76		18	112
		Phenol-d6	150	111	74		15	107
		Nitrobenzene-d5	100	67.4	67		18	107
		2-Fluorobiphenyl	100	69.4	69		20	109
		2,4,6-Tribromophenol	150	128	85		10	116
		Terphenyl-d14	100	62.4	62		10	105
PB168083BS	PB168083BS	2-Fluorophenol	150	107	71		18	112
		Phenol-d6	150	115	76		15	107
		Nitrobenzene-d5	100	69.4	69		18	107
		2-Fluorobiphenyl	100	66.0	66		20	109
		2,4,6-Tribromophenol	150	117	78		10	116
		Terphenyl-d14	100	81.6	82		10	105
Q2074-01	TP-12	2-Fluorophenol	150	82.6	55		18	112
		Phenol-d6	150	79.8	53		15	107
		Nitrobenzene-d5	100	52.4	52		18	107
		2-Fluorobiphenyl	100	48.9	49		20	109
		2,4,6-Tribromophenol	150	74.1	49		10	116
		Terphenyl-d14	100	37.7	38		10	105
Q2074-02	TP-7	2-Fluorophenol	150	86.5	58		18	112
		Phenol-d6	150	89.6	60		15	107
		Nitrobenzene-d5	100	53.5	54		18	107
		2-Fluorobiphenyl	100	50.0	50		20	109
		2,4,6-Tribromophenol	150	92.4	62		10	116
		Terphenyl-d14	100	38.1	38		10	105
Q2074-03	TP-15	2-Fluorophenol	150	70.2	47		18	112
		Phenol-d6	150	72.2	48		15	107
		Nitrobenzene-d5	100	43.7	44		18	107
		2-Fluorobiphenyl	100	42.0	42		20	109
		2,4,6-Tribromophenol	150	69.0	46		10	116
		Terphenyl-d14	100	40.8	41		10	105
Q2074-04	TP-20	2-Fluorophenol	150	86.5	58		18	112
		Phenol-d6	150	87.7	58		15	107
		Nitrobenzene-d5	100	50.7	51		18	107
		2-Fluorobiphenyl	100	46.6	47		20	109
		2,4,6-Tribromophenol	150	85.8	57		10	116
		Terphenyl-d14	100	40.0	40		10	105
Q2074-05	TP-38	2-Fluorophenol	150	86.7	58		18	112
		Phenol-d6	150	87.8	59		15	107
		Nitrobenzene-d5	100	54.1	54		18	107
		2-Fluorobiphenyl	100	47.4	47		20	109
		2,4,6-Tribromophenol	150	90.3	60		10	116
		Terphenyl-d14	100	44.8	45		10	105
Q2074-06	TP-19	2-Fluorophenol	150	79.4	53		18	112
		Phenol-d6	150	81.2	54		15	107
		Nitrobenzene-d5	100	47.0	47		18	107
		2-Fluorobiphenyl	100	45.8	46		20	109
		2,4,6-Tribromophenol	150	83.0	55		10	116
		Terphenyl-d14	100	35.3	35		10	105
Q2074-07	TP-40	2-Fluorophenol	150	66.5	44		18	112
		Phenol-d6	150	67.0	45		15	107
		Nitrobenzene-d5	100	41.0	41		18	107

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Surrogate Summary

SW-846

SDG No.: Q2074

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q2074-07	TP-40	2-Fluorobiphenyl	100	39.6	40		20	109
		2,4,6-Tribromophenol	150	61.3	41		10	116
		Terphenyl-d14	100	33.1	33		10	105
Q2074-08	TP-18	2-Fluorophenol	150	77.9	52		18	112
		Phenol-d6	150	81.2	54		15	107
		Nitrobenzene-d5	100	45.9	46		18	107
		2-Fluorobiphenyl	100	44.9	45		20	109
		2,4,6-Tribromophenol	150	83.7	56		10	116
		Terphenyl-d14	100	50.8	51		10	105
Q2075-04MS	SS-11MS	2-Fluorophenol	150	97.6	65		18	112
		Phenol-d6	150	97.8	65		15	107
		Nitrobenzene-d5	100	60.4	60		18	107
		2-Fluorobiphenyl	100	51.6	52		20	109
		2,4,6-Tribromophenol	150	113	76		10	116
		Terphenyl-d14	100	41.5	41		10	105
Q2075-05MSD	SS-11MSD	2-Fluorophenol	150	95.8	64		18	112
		Phenol-d6	150	95.6	64		15	107
		Nitrobenzene-d5	100	59.6	60		18	107
		2-Fluorobiphenyl	100	54.4	54		20	109
		2,4,6-Tribromophenol	150	106	71		10	116
		Terphenyl-d14	100	40.2	40		10	105

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2074

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2075-04MS		**Client Sample ID: SS-11MS**						**DataFile: BF142487.D**			
Benzaldehyde	1900	0	1500	ug/Kg	79				10	86	
Phenol	1900	0	1600	ug/Kg	84				67	126	
bis(2-Chloroethyl)ether	1900	0	1500	ug/Kg	79				54	125	
2-Chlorophenol	1900	0	1600	ug/Kg	84				79	107	
2-Methylphenol	1900	0	1500	ug/Kg	79				66	122	
2,2-oxybis(1-Chloropropane)	1900	0	1500	ug/Kg	79				65	110	
Acetophenone	1900	0	1700	ug/Kg	89				75	111	
3+4-Methylphenols	1900	0	1500	ug/Kg	79				66	104	
N-Nitroso-di-n-propylamine	1900	0	1500	ug/Kg	79				59	119	
Hexachloroethane	1900	0	1500	ug/Kg	79				65	117	
Nitrobenzene	1900	0	1600	ug/Kg	84				70	119	
Isophorone	1900	0	1500	ug/Kg	79				76	122	
2-Nitrophenol	1900	0	1600	ug/Kg	84				54	145	
2,4-Dimethylphenol	1900	0	1600	ug/Kg	84				44	135	
bis(2-Chloroethoxy)methane	1900	0	1500	ug/Kg	79				68	112	
2,4-Dichlorophenol	1900	0	1600	ug/Kg	84				72	118	
Naphthalene	1900	0	1600	ug/Kg	84				72	110	
4-Chloroaniline	1900	0	390	ug/Kg	21				10	91	
Hexachlorobutadiene	1900	0	1600	ug/Kg	84				66	114	
Caprolactam	1900	0	2100	ug/Kg	111				51	134	
4-Chloro-3-methylphenol	1900	0	1600	ug/Kg	84				57	132	
2-Methylnaphthalene	1900	0	1600	ug/Kg	84				59	123	
Hexachlorocyclopentadiene	3800	0	2800	ug/Kg	74				10	175	
2,4,6-Trichlorophenol	1900	0	1500	ug/Kg	79				72	117	
2,4,5-Trichlorophenol	1900	0	1600	ug/Kg	84				72	117	
1,1-Biphenyl	1900	0	1600	ug/Kg	84				75	113	
2-Chloronaphthalene	1900	0	1500	ug/Kg	79				67	118	
2-Nitroaniline	1900	0	1700	ug/Kg	89				69	127	
Dimethylphthalate	1900	0	1600	ug/Kg	84				70	113	
Acenaphthylene	1900	0	1600	ug/Kg	84				79	118	
2,6-Dinitrotoluene	1900	0	1700	ug/Kg	89				70	125	
3-Nitroaniline	1900	0	1100	ug/Kg	58				30	99	
Acenaphthene	1900	0	1800	ug/Kg	95				70	121	
2,4-Dinitrophenol	3800	0	4100	ug/Kg	108				10	155	
4-Nitrophenol	3800	0	4300	ug/Kg	113				45	133	
Dibenzofuran	1900	0	1600	ug/Kg	84				72	110	
2,4-Dinitrotoluene	1900	0	1900	ug/Kg	100				55	128	
Diethylphthalate	1900	0	1700	ug/Kg	89				70	112	
4-Chlorophenyl-phenylether	1900	0	1600	ug/Kg	84				71	108	
Fluorene	1900	0	1700	ug/Kg	89				68	116	
4-Nitroaniline	1900	0	2100	ug/Kg	111				55	120	
4,6-Dinitro-2-methylphenol	1900	0	1800	ug/Kg	95				10	160	
N-Nitrosodiphenylamine	1900	0	1500	ug/Kg	79				73	118	
4-Bromophenyl-phenylether	1900	0	1400	ug/Kg	74				65	121	
Hexachlorobenzene	1900	0	1500	ug/Kg	79				67	118	
Atrazine	1900	0	2000	ug/Kg	105				79	127	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2074

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	3800	0	3500	ug/Kg	92				47	128	
Phenanthrene	1900	0	1600	ug/Kg	84				52	128	
Anthracene	1900	0	1700	ug/Kg	89				62	124	
Carbazole	1900	0	1900	ug/Kg	100				59	119	
Di-n-butylphthalate	1900	0	2000	ug/Kg	105				69	118	
Fluoranthene	1900	120	2200	ug/Kg	109				44	125	
Pyrene	1900	0	1300	ug/Kg	68				26	142	
Butylbenzylphthalate	1900	0	1900	ug/Kg	100				64	126	
3,3-Dichlorobenzidine	1900	0	720	ug/Kg	38				33	116	
Benzo(a)anthracene	1900	0	1700	ug/Kg	89				71	114	
Chrysene	1900	0	1600	ug/Kg	84				57	121	
bis(2-Ethylhexyl)phthalate	1900	0	2100	ug/Kg	111				42	169	
Di-n-octyl phthalate	1900	0	1700	ug/Kg	89				23	175	
Benzo(b)fluoranthene	1900	0	1900	ug/Kg	100				67	121	
Benzo(k)fluoranthene	1900	0	1600	ug/Kg	84				57	134	
Benzo(a)pyrene	1900	0	1700	ug/Kg	89				70	142	
Indeno(1,2,3-cd)pyrene	1900	0	1400	ug/Kg	74				40	129	
Dibenz(a,h)anthracene	1900	0	1400	ug/Kg	74				43	123	
Benzo(g,h,i)perylene	1900	0	1300	ug/Kg	68				24	125	
1,2,4,5-Tetrachlorobenzene	1900	0	1500	ug/Kg	79				69	124	
1,4-Dioxane	1900	0	1400	ug/Kg	74				46	112	
2,3,4,6-Tetrachlorophenol	1900	0	1700	ug/Kg	89				69	112	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2074

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2075-05MSD		**Client Sample ID: SS-11MSD**						**DataFile: BF142488.D**			
Benzaldehyde	1900	0	1400	ug/Kg	74		7		10	86	20
Phenol	1900	0	1500	ug/Kg	79		6		67	126	20
bis(2-Chloroethyl)ether	1900	0	1500	ug/Kg	79		0		54	125	20
2-Chlorophenol	1900	0	1500	ug/Kg	79		6		79	107	20
2-Methylphenol	1900	0	1500	ug/Kg	79		0		66	122	20
2,2-oxybis(1-Chloropropane)	1900	0	1500	ug/Kg	79		0		65	110	20
Acetophenone	1900	0	1600	ug/Kg	84		6		75	111	20
3+4-Methylphenols	1900	0	1500	ug/Kg	79		0		66	104	20
N-Nitroso-di-n-propylamine	1900	0	1400	ug/Kg	74		7		59	119	20
Hexachloroethane	1900	0	1500	ug/Kg	79		0		65	117	20
Nitrobenzene	1900	0	1600	ug/Kg	84		0		70	119	20
Isophorone	1900	0	1500	ug/Kg	79		0		76	122	20
2-Nitrophenol	1900	0	1600	ug/Kg	84		0		54	145	20
2,4-Dimethylphenol	1900	0	1500	ug/Kg	79		6		44	135	20
bis(2-Chloroethoxy)methane	1900	0	1500	ug/Kg	79		0		68	112	20
2,4-Dichlorophenol	1900	0	1500	ug/Kg	79		6		72	118	20
Naphthalene	1900	0	1600	ug/Kg	84		0		72	110	20
4-Chloroaniline	1900	0	390	ug/Kg	21		0		10	91	20
Hexachlorobutadiene	1900	0	1500	ug/Kg	79		6		66	114	20
Caprolactam	1900	0	1800	ug/Kg	95		16		51	134	20
4-Chloro-3-methylphenol	1900	0	1500	ug/Kg	79		6		57	132	20
2-Methylnaphthalene	1900	0	1500	ug/Kg	79		6		59	123	20
Hexachlorocyclopentadiene	3800	0	3100	ug/Kg	82		10		10	175	20
2,4,6-Trichlorophenol	1900	0	1600	ug/Kg	84		6		72	117	20
2,4,5-Trichlorophenol	1900	0	1600	ug/Kg	84		0		72	117	20
1,1-Biphenyl	1900	0	1600	ug/Kg	84		0		75	113	20
2-Chloronaphthalene	1900	0	1600	ug/Kg	84		6		67	118	20
2-Nitroaniline	1900	0	1700	ug/Kg	89		0		69	127	20
Dimethylphthalate	1900	0	1600	ug/Kg	84		0		70	113	20
Acenaphthylene	1900	0	1600	ug/Kg	84		0		79	118	20
2,6-Dinitrotoluene	1900	0	1600	ug/Kg	84		6		70	125	20
3-Nitroaniline	1900	0	1000	ug/Kg	53		9		30	99	20
Acenaphthene	1900	0	1800	ug/Kg	95		0		70	121	20
2,4-Dinitrophenol	3800	0	3700	ug/Kg	97		11		10	155	20
4-Nitrophenol	3800	0	4100	ug/Kg	108		5		45	133	20
Dibenzofuran	1900	0	1600	ug/Kg	84		0		72	110	20
2,4-Dinitrotoluene	1900	0	1800	ug/Kg	95		5		55	128	20
Diethylphthalate	1900	0	1600	ug/Kg	84		6		70	112	20
4-Chlorophenyl-phenylether	1900	0	1600	ug/Kg	84		0		71	108	20
Fluorene	1900	0	1600	ug/Kg	84		6		68	116	20
4-Nitroaniline	1900	0	1900	ug/Kg	100		10		55	120	20
4,6-Dinitro-2-methylphenol	1900	0	1700	ug/Kg	89		7		10	160	20
N-Nitrosodiphenylamine	1900	0	1500	ug/Kg	79		0		73	118	20
4-Bromophenyl-phenylether	1900	0	1400	ug/Kg	74		0		65	121	20
Hexachlorobenzene	1900	0	1500	ug/Kg	79		0		67	118	20
Atrazine	1900	0	1900	ug/Kg	100		5		79	127	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2074

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	3800	0	3400	ug/Kg	89		3		47	128	20
Phenanthrene	1900	0	1700	ug/Kg	89		6		52	128	20
Anthracene	1900	0	1700	ug/Kg	89		0		62	124	20
Carbazole	1900	0	1900	ug/Kg	100		0		59	119	20
Di-n-butylphthalate	1900	0	1900	ug/Kg	100		5		69	118	20
Fluoranthene	1900	120	2300	ug/Kg	115		5		44	125	20
Pyrene	1900	0	1300	ug/Kg	68		0		26	142	20
Butylbenzylphthalate	1900	0	1900	ug/Kg	100		0		64	126	20
3,3-Dichlorobenzidine	1900	0	770	ug/Kg	41		8		33	116	20
Benzo(a)anthracene	1900	0	1600	ug/Kg	84		6		71	114	20
Chrysene	1900	0	1600	ug/Kg	84		0		57	121	20
bis(2-Ethylhexyl)phthalate	1900	0	2000	ug/Kg	105		6		42	169	20
Di-n-octyl phthalate	1900	0	1600	ug/Kg	84		6		23	175	20
Benzo(b)fluoranthene	1900	0	1700	ug/Kg	89		12		67	121	20
Benzo(k)fluoranthene	1900	0	1700	ug/Kg	89		6		57	134	20
Benzo(a)pyrene	1900	0	1700	ug/Kg	89		0		70	142	20
Indeno(1,2,3-cd)pyrene	1900	0	1400	ug/Kg	74		0		40	129	20
Dibenz(a,h)anthracene	1900	0	1300	ug/Kg	68		8		43	123	20
Benzo(g,h,i)perylene	1900	0	1300	ug/Kg	68		0		24	125	20
1,2,4,5-Tetrachlorobenzene	1900	0	1600	ug/Kg	84		6		69	124	20
1,4-Dioxane	1900	0	1400	ug/Kg	74		0		46	112	20
2,3,4,6-Tetrachlorophenol	1900	0	1600	ug/Kg	84		6		69	112	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2074

Client: CDM Smith

Analytical Method: 8270E **DataFile:** BF142480.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168083BS	Benzaldehyde	1700	1200	ug/Kg	71				10	133	
	Phenol	1700	1400	ug/Kg	82				62	112	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				60	101	
	2-Chlorophenol	1700	1400	ug/Kg	82				65	112	
	2-Methylphenol	1700	1400	ug/Kg	82				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1400	ug/Kg	82				51	100	
	Acetophenone	1700	1300	ug/Kg	76				66	98	
	3+4-Methylphenols	1700	1400	ug/Kg	82				58	111	
	N-Nitroso-di-n-propylamine	1700	1400	ug/Kg	82				63	95	
	Hexachloroethane	1700	1300	ug/Kg	76				72	108	
	Nitrobenzene	1700	1400	ug/Kg	82				57	101	
	Isophorone	1700	1400	ug/Kg	82				59	99	
	2-Nitrophenol	1700	1500	ug/Kg	88				61	111	
	2,4-Dimethylphenol	1700	1400	ug/Kg	82				46	141	
	bis(2-Chloroethoxy)methane	1700	1300	ug/Kg	76				66	97	
	2,4-Dichlorophenol	1700	1400	ug/Kg	82				62	107	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	640	ug/Kg	38				16	100	
	Hexachlorobutadiene	1700	1300	ug/Kg	76				53	98	
	Caprolactam	1700	1500	ug/Kg	88				67	110	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				58	112	
	2-Methylnaphthalene	1700	1300	ug/Kg	76				60	104	
	Hexachlorocyclopentadiene	3300	2800	ug/Kg	85				45	165	
	2,4,6-Trichlorophenol	1700	1400	ug/Kg	82				59	102	
	2,4,5-Trichlorophenol	1700	1400	ug/Kg	82				61	98	
	1,1-Biphenyl	1700	1300	ug/Kg	76				57	103	
	2-Chloronaphthalene	1700	1300	ug/Kg	76				58	99	
	2-Nitroaniline	1700	1400	ug/Kg	82				66	101	
	Dimethylphthalate	1700	1400	ug/Kg	82				61	99	
	Acenaphthylene	1700	1300	ug/Kg	76				63	101	
	2,6-Dinitrotoluene	1700	1400	ug/Kg	82				61	104	
	3-Nitroaniline	1700	890	ug/Kg	52				28	100	
	Acenaphthene	1700	1500	ug/Kg	88				57	104	
	2,4-Dinitrophenol	3300	3300	ug/Kg	100				37	128	
	4-Nitrophenol	3300	3000	ug/Kg	91				48	119	
	Dibenzofuran	1700	1400	ug/Kg	82				63	99	
	2,4-Dinitrotoluene	1700	1500	ug/Kg	88				60	106	
	Diethylphthalate	1700	1500	ug/Kg	88				60	101	
	4-Chlorophenyl-phenylether	1700	1300	ug/Kg	76				58	98	
	Fluorene	1700	1300	ug/Kg	76				61	101	
	4-Nitroaniline	1700	1500	ug/Kg	88				64	103	
	4,6-Dinitro-2-methylphenol	1700	1700	ug/Kg	100				76	113	
	N-Nitrosodiphenylamine	1700	1300	ug/Kg	76				71	99	
	4-Bromophenyl-phenylether	1700	1400	ug/Kg	82				66	102	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2074

Client: CDM Smith

Analytical Method: 8270E **DataFile:** BF142480.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168083BS	Hexachlorobenzene	1700	1400	ug/Kg	82				64	98	
	Atrazine	1700	1600	ug/Kg	94				47	152	
	Pentachlorophenol	3300	2800	ug/Kg	85				67	105	
	Phenanthrene	1700	1400	ug/Kg	82				59	103	
	Anthracene	1700	1300	ug/Kg	76				61	105	
	Carbazole	1700	1400	ug/Kg	82				61	99	
	Di-n-butylphthalate	1700	1500	ug/Kg	88				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Pyrene	1700	1600	ug/Kg	94				59	103	
	Butylbenzylphthalate	1700	1600	ug/Kg	94				55	103	
	3,3-Dichlorobenzidine	1700	810	ug/Kg	48				42	91	
	Benzo(a)anthracene	1700	1400	ug/Kg	82				60	102	
	Chrysene	1700	1400	ug/Kg	82				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1500	ug/Kg	88				54	135	
	Di-n-octyl phthalate	1700	1400	ug/Kg	82				52	137	
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				62	109	
	Benzo(k)fluoranthene	1700	1400	ug/Kg	82				62	109	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1600	ug/Kg	94				63	101	
	Dibenz(a,h)anthracene	1700	1600	ug/Kg	94				61	112	
	Benzo(g,h,i)perylene	1700	1600	ug/Kg	94				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1300	ug/Kg	76				53	101	
	1,4-Dioxane	1700	1100	ug/Kg	65				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1400	ug/Kg	82				59	108	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168083BL

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

Lab File ID: BF142479.D Lab Sample ID: PB168083BL

Instrument ID: BNA_F Date Extracted: 05/20/2025

Matrix: (soil/water) SOIL Date Analyzed: 05/21/2025

Level: (low/med) LOW Time Analyzed: 11:09

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168083BS	PB168083BS	BF142480.D	05/21/2025
TP-7	Q2074-02	BF142481.D	05/21/2025
TP-20	Q2074-04	BF142482.D	05/21/2025
TP-19	Q2074-06	BF142484.D	05/21/2025
SS-11MS	Q2075-04MS	BF142487.D	05/21/2025
SS-11MSD	Q2075-05MSD	BF142488.D	05/21/2025
TP-38	Q2074-05	BF142505.D	05/22/2025
TP-18	Q2074-08	BF142506.D	05/22/2025
TP-12	Q2074-01	BF142513.D	05/22/2025
TP-15	Q2074-03	BF142514.D	05/22/2025
TP-40	Q2074-07	BF142515.D	05/22/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM SAS No.: Q2074 SDG NO.: Q2074

Lab File ID: BF142465.D DFTPP Injection Date: 05/20/2025

Instrument ID: BNA_F DFTPP Injection Time: 11:13

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	27.4
68	Less than 2.0% of mass 69	0.5 (1.9) 1
69	Mass 69 relative abundance	24.7
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	33.5
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	4.9
275	10.0 - 60.0% of mass 198	22.3
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	14.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19 (19) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF142467.D	05/20/2025	12:10
SSTDICC005	SSTDICC005	BF142468.D	05/20/2025	12:38
SSTDICC010	SSTDICC010	BF142469.D	05/20/2025	13:07
SSTDICC020	SSTDICC020	BF142470.D	05/20/2025	13:36
SSTDICCC040	SSTDICCC040	BF142471.D	05/20/2025	14:05
SSTDICC050	SSTDICC050	BF142472.D	05/20/2025	14:34
SSTDICC060	SSTDICC060	BF142473.D	05/20/2025	15:03
SSTDICC080	SSTDICC080	BF142474.D	05/20/2025	15:31

Raw Data: **BF142477.D**

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM SAS No.: Q2074 SDG NO.: Q2074

Lab File ID: BF142477.D DFTPP Injection Date: 05/21/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.5
68	Less than 2.0% of mass 69	0.6 (2) 1
69	Mass 69 relative abundance	29.3
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	39.3
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.7
275	10.0 - 60.0% of mass 198	24.4
365	Greater than 1% of mass 198	3.2
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	19.4 (19.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142478.D	05/21/2025	10:40
PB168083BL	PB168083BL	BF142479.D	05/21/2025	11:09
PB168083BS	PB168083BS	BF142480.D	05/21/2025	11:37
TP-7	Q2074-02	BF142481.D	05/21/2025	12:14
TP-20	Q2074-04	BF142482.D	05/21/2025	12:43
TP-19	Q2074-06	BF142484.D	05/21/2025	13:40
SS-11MS	Q2075-04MS	BF142487.D	05/21/2025	15:06
SS-11MSD	Q2075-05MSD	BF142488.D	05/21/2025	15:34

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM SAS No.: Q2074 SDG NO.: Q2074

Lab File ID: BF142501.D DFTPP Injection Date: 05/22/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	28.3
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	25.3
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	35.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.1
275	10.0 - 60.0% of mass 198	22.8
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	15.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.7 (18.7) 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	BF142502.D	05/22/2025	11:11
TP-38	Q2074-05	BF142505.D	05/22/2025	12:42
TP-18	Q2074-08	BF142506.D	05/22/2025	13:11
TP-12	Q2074-01	BF142513.D	05/22/2025	16:34
TP-15	Q2074-03	BF142514.D	05/22/2025	17:03
TP-40	Q2074-07	BF142515.D	05/22/2025	17:32

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/21/2025

Lab File ID: BF142478.D Time Analyzed: 10:40

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	124102	6.898	475212	8.19	258765	9.94
	UPPER LIMIT	248204	7.398	950424	8.686	517530	10.439
	LOWER LIMIT	62051	6.398	237606	7.686	129383	9.439
	EPA SAMPLE NO.						
01	PB168083BL	127003	6.90	492428	8.18	264579	9.94
02	PB168083BS	124824	6.90	495438	8.19	277044	9.94
03	TP-7	88091	6.90	330115	8.18	169428	9.94
04	TP-20	78241	6.90	292583	8.18	152289	9.93
05	TP-19	68503	6.90	265449	8.18	143783	9.93
06	SS-11MS	54835 *	6.90	200654 *	8.18	113830 *	9.94
07	SS-11MSD	53473 *	6.90	192497 *	8.18	95696 *	9.94

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/21/2025

Lab File ID: BF142478.D Time Analyzed: 10:40

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	454448	11.427	231233	14.068	233183	15.562
	UPPER LIMIT	908896	11.927	462466	14.568	466366	16.062
	LOWER LIMIT	227224	10.927	115617	13.568	116592	15.062
	EPA SAMPLE NO.						
01	PB168083BL	511963	11.43	324877	14.07	234653	15.56
02	PB168083BS	468851	11.43	214548	14.07	229705	15.56
03	TP-7	293973	11.42	263519	14.06	238889	15.56
04	TP-20	263354	11.42	229725	14.06	197920	15.56
05	TP-19	270138	11.42	248278	14.07	222913	15.56
06	SS-11MS	229012	11.43	210926	14.07	176162	15.56
07	SS-11MSD	179294 *	11.43	174160	14.07	147670	15.56

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/22/2025

Lab File ID: BF142502.D Time Analyzed: 11:11

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	96659	6.898	372701	8.19	197309	9.94
	UPPER LIMIT	193318	7.398	745402	8.687	394618	10.439
	LOWER LIMIT	48329.5	6.398	186351	7.687	98654.5	9.439
	EPA SAMPLE NO.						
01	TP-12	100796	6.90	331984	8.18	141613	9.93
02	TP-15	111156	6.90	403247	8.18	196334	9.93
03	TP-38	105231	6.90	393023	8.18	211306	9.93
04	TP-40	105109	6.90	356070	8.18	155651	9.93
05	TP-18	114998	6.90	438934	8.18	234734	9.93

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/22/2025

Lab File ID: BF142502.D Time Analyzed: 11:11

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	315055	11.428	157895	14.069	195527	15.557
	UPPER LIMIT	630110	11.928	315790	14.569	391054	16.057
	LOWER LIMIT	157528	10.928	78947.5	13.569	97763.5	15.057
	EPA SAMPLE NO.						
01	TP-12	236489	11.42	182992	14.06	150268	15.56
02	TP-15	331001	11.42	212263	14.06	172640	15.56
03	TP-38	363178	11.42	195335	14.06	215007	15.56
04	TP-40	248584	11.42	190159	14.06	152099	15.56
05	TP-18	406523	11.42	207782	14.06	225144	15.56

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

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

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

SAMPLE DATA

Raw Data: **BF142513.D**

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.5
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
BF142513.D	1	05/20/25 09:45	05/22/25 16:34	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	390	ug/Kg
108-95-2	Phenol	26.4	U	26.4	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.0	U	29.0	200	ug/Kg
95-57-8	2-Chlorophenol	29.2	U	29.2	200	ug/Kg
95-48-7	2-Methylphenol	35.7	U	35.7	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	44.8	U	44.8	200	ug/Kg
98-86-2	Acetophenone	35.2	U	35.2	200	ug/Kg
65794-96-9	3+4-Methylphenols	49.1	U	49.1	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	56.6	U	56.6	95.6	ug/Kg
67-72-1	Hexachloroethane	21.0	U	21.0	200	ug/Kg
98-95-3	Nitrobenzene	21.9	U	21.9	200	ug/Kg
78-59-1	Isophorone	39.2	U	39.2	200	ug/Kg
88-75-5	2-Nitrophenol	69.5	U	69.5	200	ug/Kg
105-67-9	2,4-Dimethylphenol	77.4	U	77.4	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.8	U	36.8	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.8	U	33.8	200	ug/Kg
91-20-3	Naphthalene	27.1	U	27.1	200	ug/Kg
106-47-8	4-Chloroaniline	42.3	U	42.3	200	ug/Kg
87-68-3	Hexachlorobutadiene	30.2	U	30.2	200	ug/Kg
105-60-2	Caprolactam	62.3	U	62.3	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.3	U	34.3	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.6	U	30.6	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.7	U	23.7	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.8	U	34.8	200	ug/Kg
92-52-4	1,1-Biphenyl	26.0	U	26.0	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.9	U	26.9	200	ug/Kg
88-74-4	2-Nitroaniline	57.5	U	57.5	200	ug/Kg
131-11-3	Dimethylphthalate	32.4	U	32.4	200	ug/Kg

Raw Data: **BF142513.D**

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.5
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
BF142513.D	1	05/20/25 09:45	05/22/25 16:34	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	90.1	J	34.5	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.1	U	40.1	200	ug/Kg
99-09-2	3-Nitroaniline	55.0	U	55.0	200	ug/Kg
83-32-9	Acenaphthene	25.4	U	25.4	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	390	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	390	ug/Kg
132-64-9	Dibenzofuran	27.1	U	27.1	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	59.9	U	59.9	200	ug/Kg
84-66-2	Diethylphthalate	33.8	U	33.8	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.9	U	31.9	200	ug/Kg
86-73-7	Fluorene	30.2	U	30.2	200	ug/Kg
100-01-6	4-Nitroaniline	76.7	U	76.7	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	39.3	U	39.3	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.2	U	33.2	200	ug/Kg
118-74-1	Hexachlorobenzene	30.2	U	30.2	200	ug/Kg
1912-24-9	Atrazine	40.6	U	40.6	200	ug/Kg
87-86-5	Pentachlorophenol	61.3	U	61.3	390	ug/Kg
85-01-8	Phenanthrene	110	J	25.0	200	ug/Kg
120-12-7	Anthracene	39.8	U	39.8	200	ug/Kg
86-74-8	Carbazole	37.3	U	37.3	200	ug/Kg
84-74-2	Di-n-butylphthalate	57.2	U	57.2	200	ug/Kg
206-44-0	Fluoranthene	800		35.8	200	ug/Kg
129-00-0	Pyrene	630		43.0	200	ug/Kg
85-68-7	Butylbenzylphthalate	85.3	U	85.3	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43.8	U	43.8	390	ug/Kg
56-55-3	Benzo(a)anthracene	300		27.5	200	ug/Kg
218-01-9	Chrysene	370		23.8	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	70.7	U	70.7	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	450		22.7	200	ug/Kg

Raw Data: **BF142513.D**

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.5
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
BF142513.D	1	05/20/25 09:45	05/22/25 16:34	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	91.0	J	26.8	200	ug/Kg
50-32-8	Benzo(a)pyrene	310		35.2	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	120	J	34.8	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.7	U	32.7	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	140	J	30.7	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.6	U	30.6	200	ug/Kg
123-91-1	1,4-Dioxane	54.0	U	54.0	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.7	U	32.7	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	82.6		18 - 112	55%	SPK: 150
13127-88-3	Phenol-d6	79.8		15 - 107	53%	SPK: 150
4165-60-0	Nitrobenzene-d5	52.4		18 - 107	52%	SPK: 100
321-60-8	2-Fluorobiphenyl	48.9		20 - 109	49%	SPK: 100
118-79-6	2,4,6-Tribromophenol	74.1		10 - 116	49%	SPK: 150
1718-51-0	Terphenyl-d14	37.7		10 - 105	38%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	101000	6.898			
1146-65-2	Naphthalene-d8	332000	8.181			
15067-26-2	Acenaphthene-d10	142000	9.934			
1517-22-2	Phenanthrene-d10	236000	11.422			
1719-03-5	Chrysene-d12	183000	14.063			
1520-96-3	Perylene-d12	150000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB		5.12	ug/Kg
017301-23-4	Undecane, 2,6-dimethyl-	88.4	J		8.23	ug/Kg
1010309-70-5	Oxalic acid, cyclobutyl pentadecyl	85.2	J		9.34	ug/Kg
080655-44-3	Decahydro-1,1,4a,5,6-pentamethylna	130	J		9.64	ug/Kg
000119-61-9	Benzophenone	170	J		10.6	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	290	J		11.9	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	340	J		12.0	ug/Kg

Raw Data: **BF142513.D**

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.5
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
BF142513.D	1	05/20/25 09:45	05/22/25 16:34	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
003674-66-6	Phenanthrene, 2,5-dimethyl-	130	J		12.5	ug/Kg
	unknown12.510	110	J		12.5	ug/Kg
001576-69-8	Phenanthrene, 2,7-dimethyl-	84.8	J		12.6	ug/Kg
002381-21-7	Pyrene, 1-methyl-	92.4	J		13.1	ug/Kg
033543-31-6	Fluoranthene, 2-methyl-	150	J		13.2	ug/Kg
003353-12-6	Pyrene, 4-methyl-	90.8	J		13.3	ug/Kg
018835-33-1	1-Hexacosene	92.8	J		13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	230	J		15.4	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\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

Quant Time: May 23 01:22:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

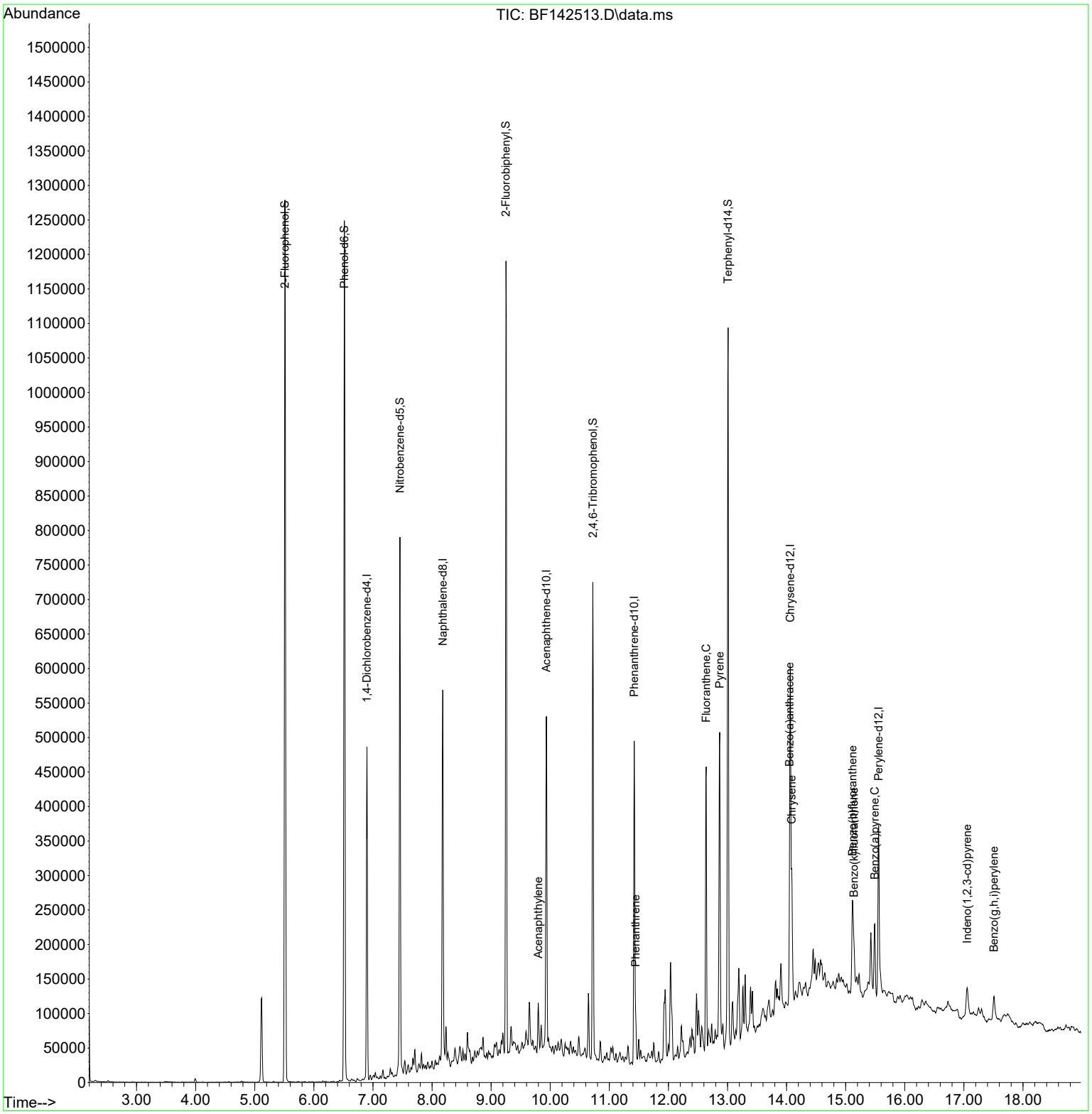
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.898	152	100796	20.000	ng		0.00
21) Naphthalene-d8	8.181	136	331984	20.000	ng		0.00
39) Acenaphthene-d10	9.934	164	141613	20.000	ng		-0.01
64) Phenanthrene-d10	11.422	188	236489	20.000	ng		-0.01
76) Chrysene-d12	14.063	240	182992	20.000	ng		-0.01
86) Perylene-d12	15.557	264	150268	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	494096	82.586	ng		0.00
7) Phenol-d6	6.516	99	574621	79.788	ng		-0.02
23) Nitrobenzene-d5	7.457	82	319194	52.428	ng		-0.02
42) 2,4,6-Tribromophenol	10.722	330	116500	74.122	ng		-0.02
45) 2-Fluorobiphenyl	9.251	172	516485	48.940	ng		-0.02
79) Terphenyl-d14	13.010	244	504282	37.659	ng		0.00
Target Compounds							Qvalue
49) Acenaphthylene	9.798	152	31014	2.263	ng		96
71) Phenanthrene	11.445	178	36032	2.851	ng		98
75) Fluoranthene	12.639	202	237713	20.129	ng		100
78) Pyrene	12.869	202	269306	15.776	ng		99
81) Benzo(a)anthracene	14.051	228	93070m	7.617	ng		
83) Chrysene	14.086	228	102605	9.345	ng		98
87) Indeno(1,2,3-cd)pyrene	17.057	276	33902	3.005	ng		97
88) Benzo(b)fluoranthene	15.116	252	101084m	11.366	ng		
89) Benzo(k)fluoranthene	15.139	252	19022m	2.284	ng		
90) Benzo(a)pyrene	15.492	252	64411	7.683	ng	#	97
92) Benzo(g,h,i)perylene	17.510	276	31581	3.451	ng		97

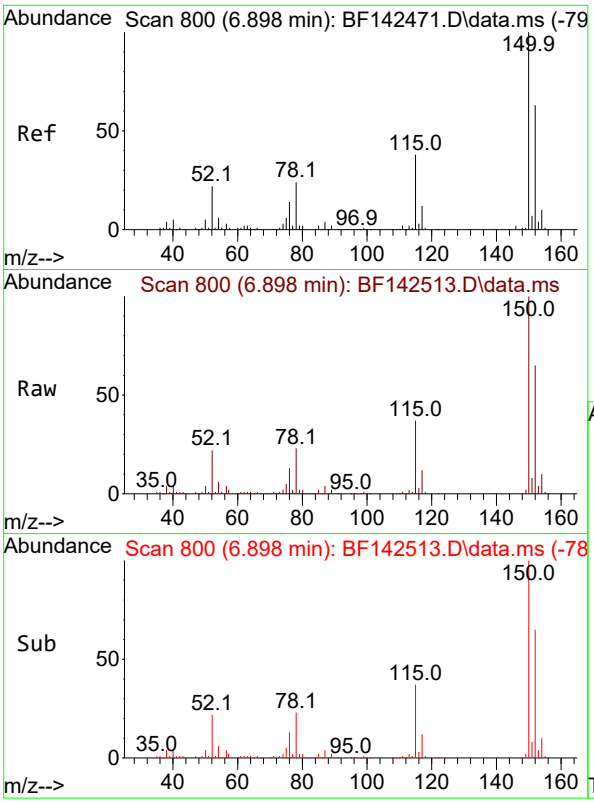
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

Quant Time: May 23 01:22:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



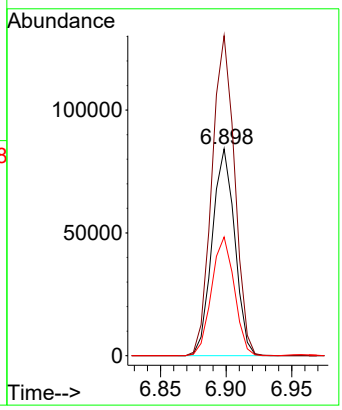


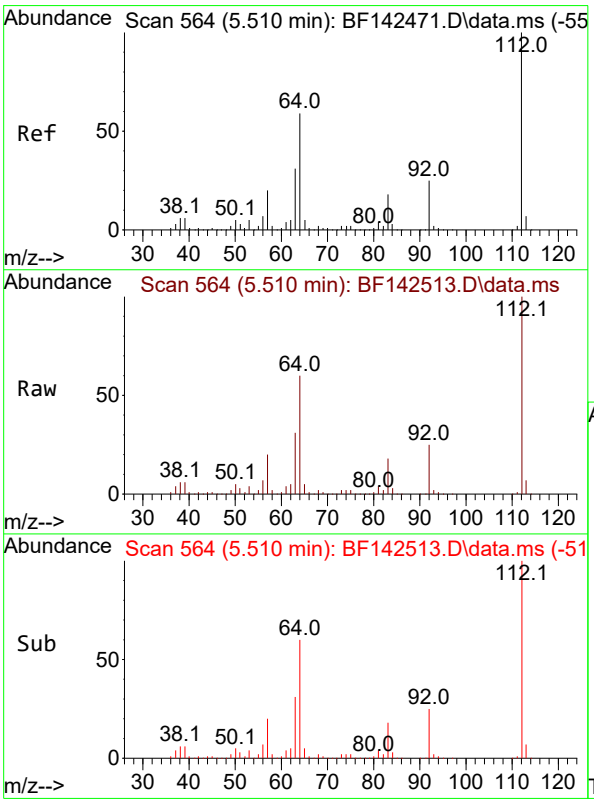
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:152 Resp: 100796

Ion	Ratio	Lower	Upper
152	100		
150	154.6	128.2	192.4
115	57.4	48.3	72.5

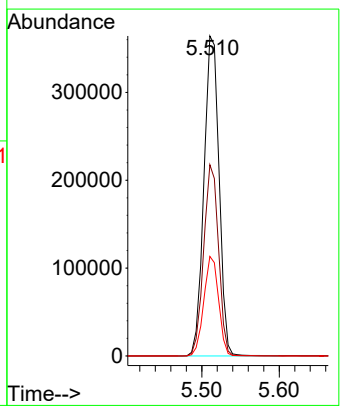


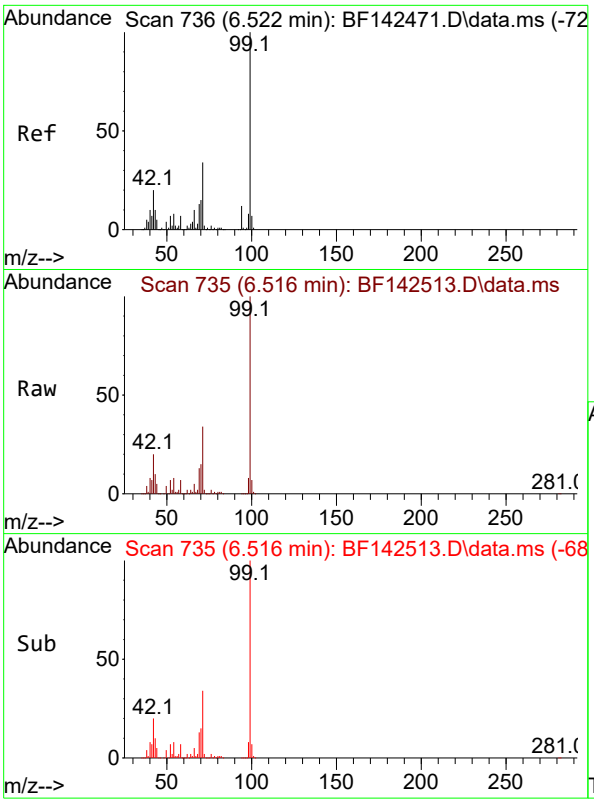


#5
2-Fluorophenol
Concen: 82.586 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:112 Resp: 494096

Ion	Ratio	Lower	Upper
112	100		
64	59.7	47.5	71.3
63	31.1	24.9	37.3



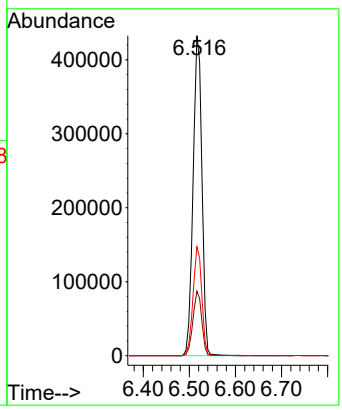


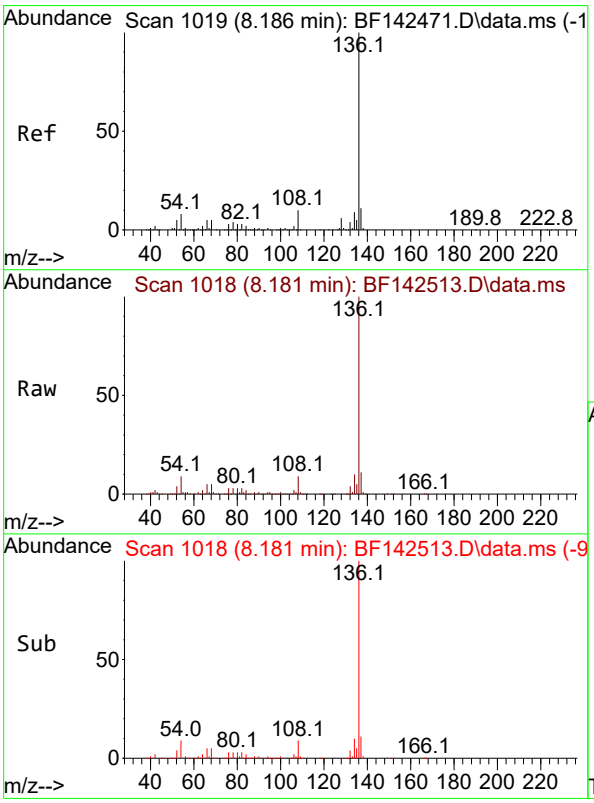
#7
Phenol-d6
Concen: 79.788 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion: 99 Resp: 574621

Ion	Ratio	Lower	Upper
99	100		
42	20.2	16.2	24.2
71	34.0	27.3	40.9

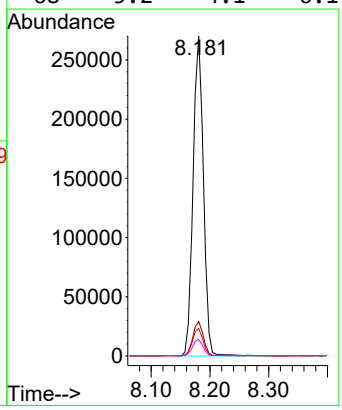


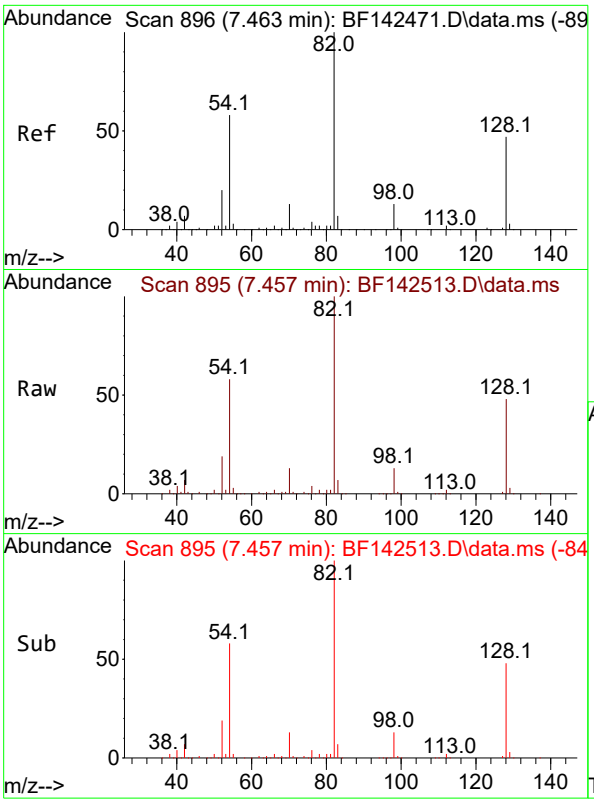


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:136 Resp: 331984

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.6	6.6	10.0
68	5.2	4.1	6.1



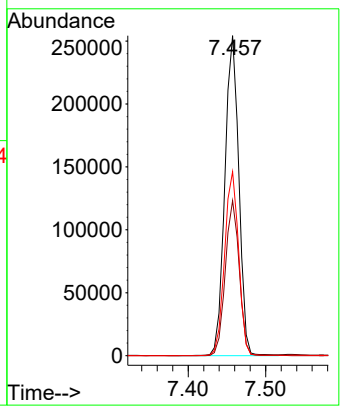


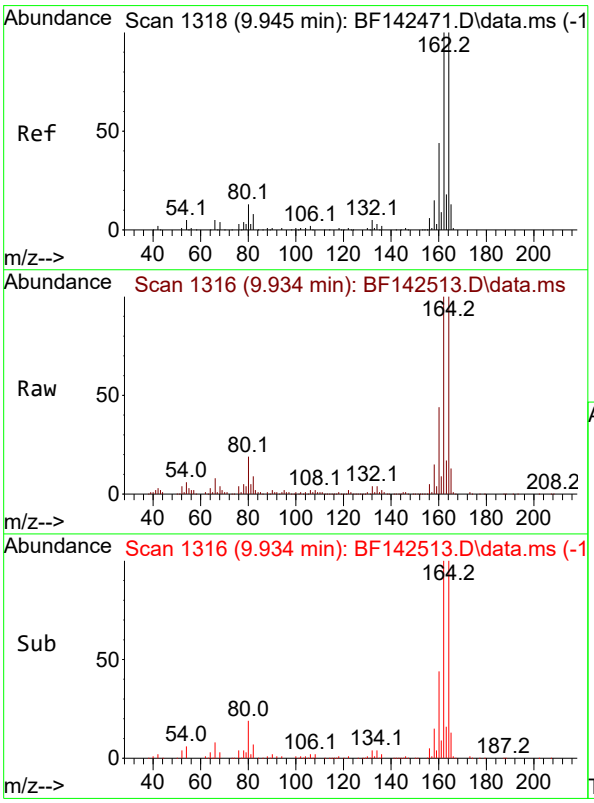
#23
Nitrobenzene-d5
Concen: 52.428 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion: 82 Resp: 319194

Ion	Ratio	Lower	Upper
82	100		
128	48.4	37.4	56.2
54	57.5	46.6	70.0

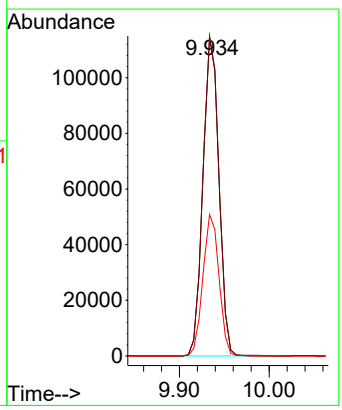


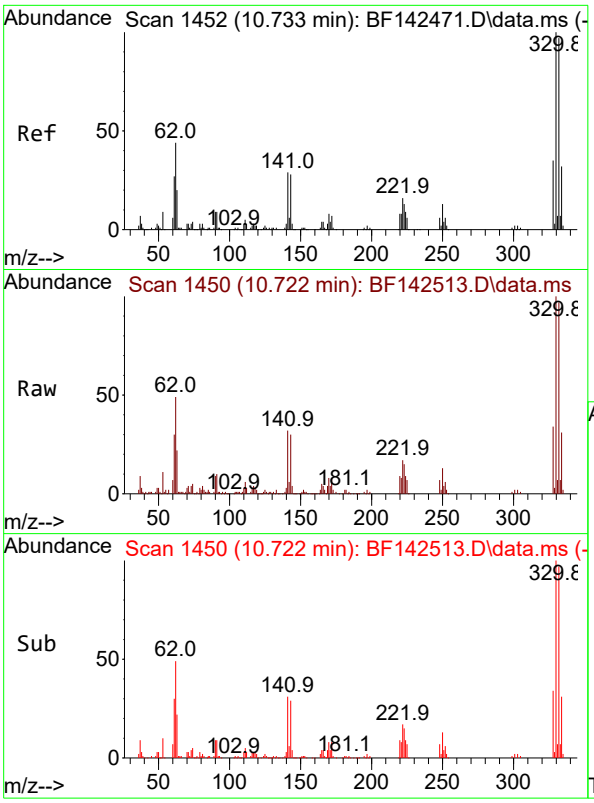


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.934 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:164 Resp: 141613

Ion	Ratio	Lower	Upper
164	100		
162	100.4	80.2	120.4
160	44.4	35.6	53.4



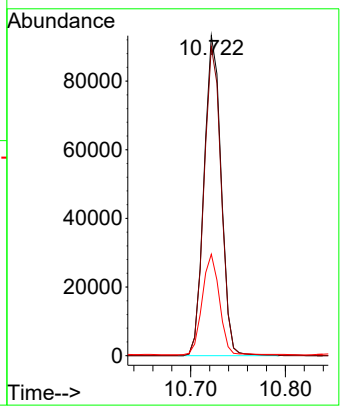


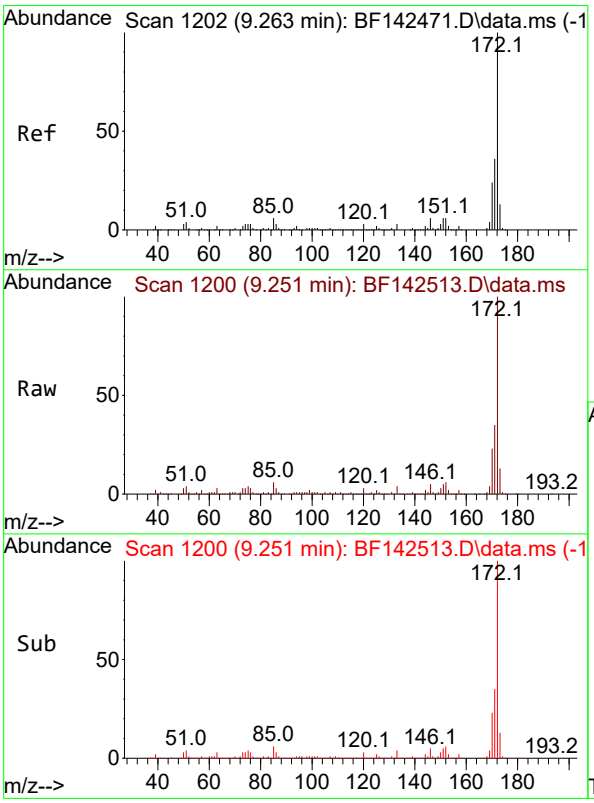
#42
2,4,6-Tribromophenol
Concen: 74.122 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:330 Resp: 116500

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.6	116.4
141	31.4	24.6	36.8

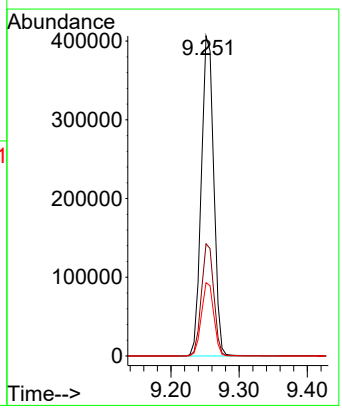


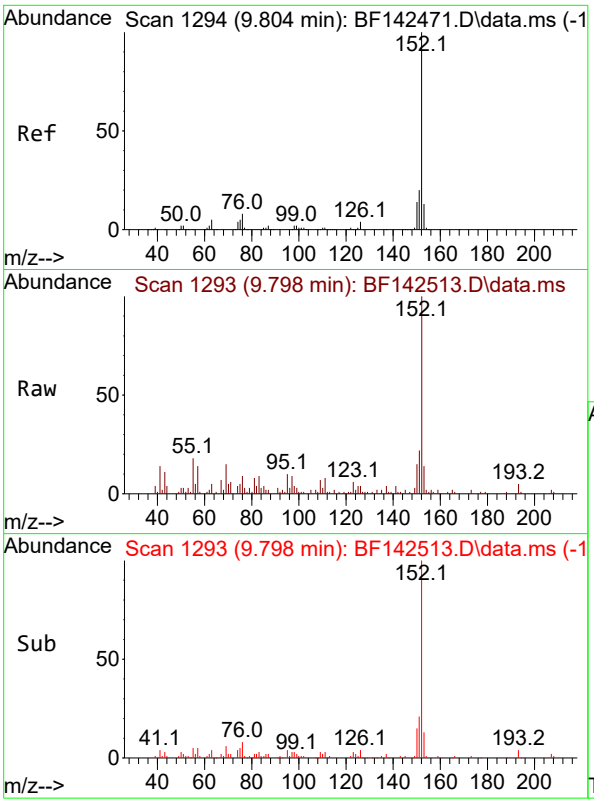


#45
2-Fluorobiphenyl
Concen: 48.940 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.017 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:172 Resp: 516485

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.6	42.8
170	22.9	18.9	28.3



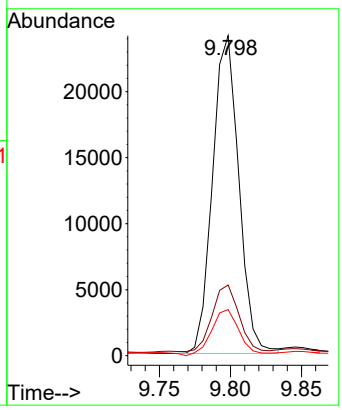


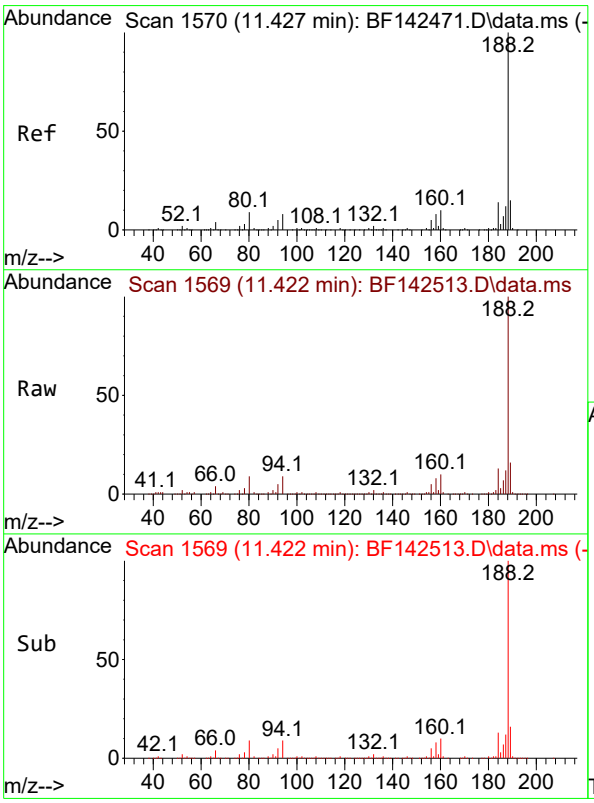
#49
Acenaphthylene
Concen: 2.263 ng
RT: 9.798 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:152 Resp: 31014

Ion	Ratio	Lower	Upper
152	100		
151	22.1	15.8	23.8
153	14.4	10.6	15.8

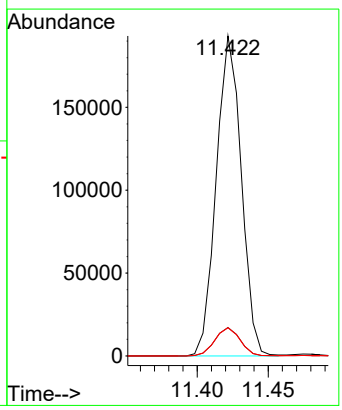


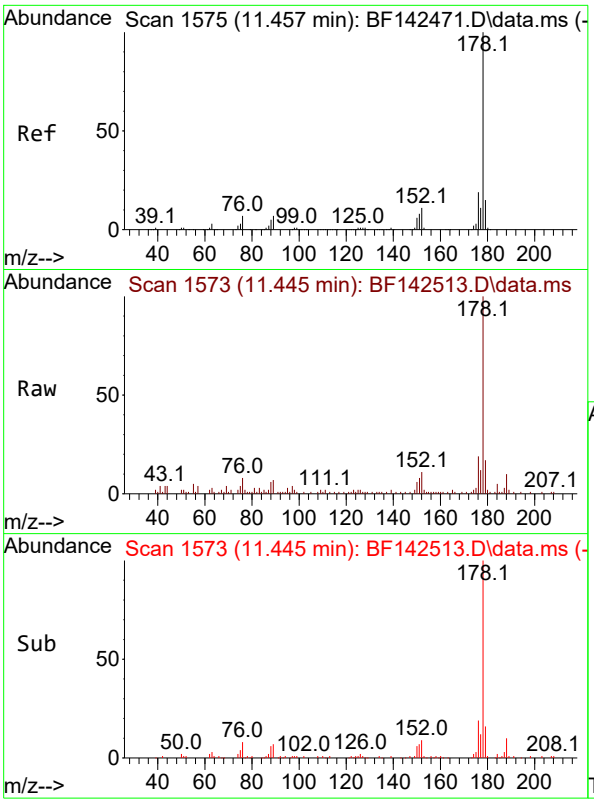


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1569
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:188 Resp: 236489

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	8.8	7.4	11.0



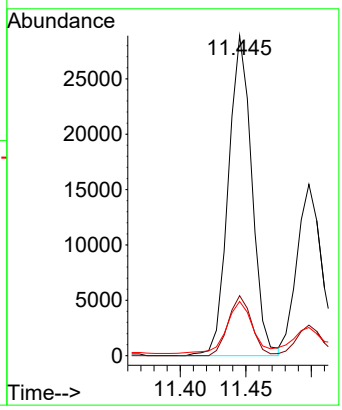


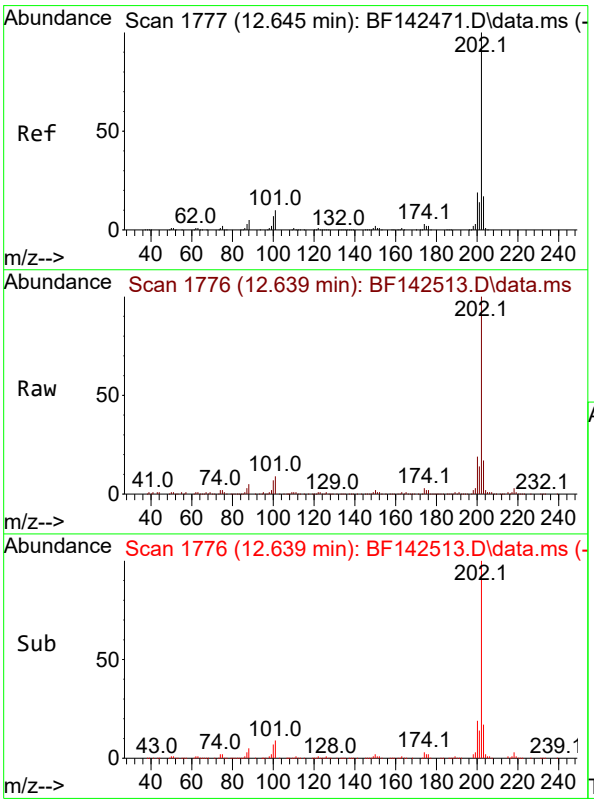
#71
Phenanthrene
Concen: 2.851 ng
RT: 11.445 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:178 Resp: 36032

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.0
179	16.9	12.3	18.5

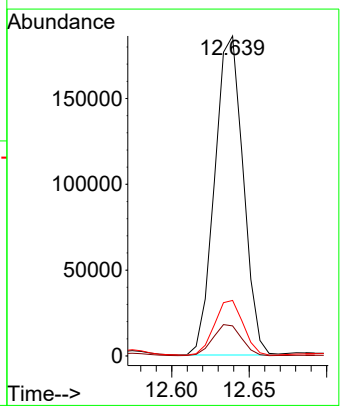


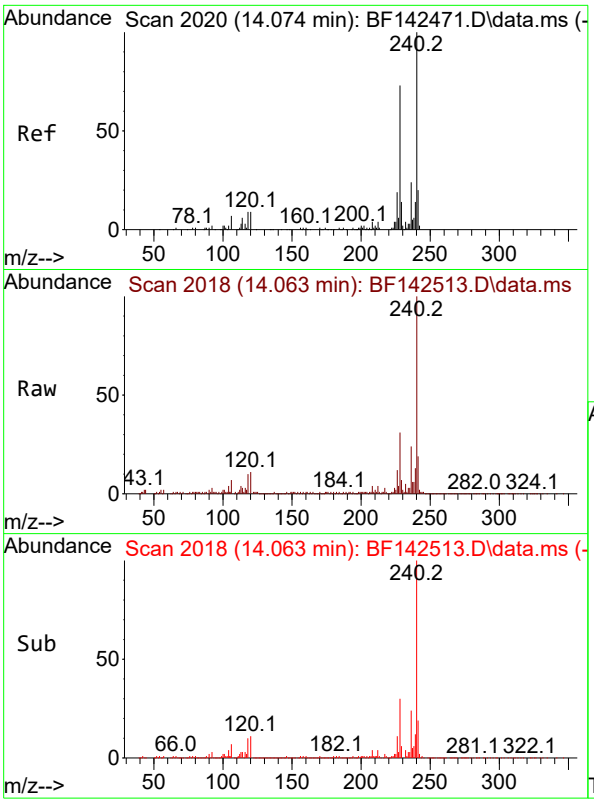


#75
Fluoranthene
Concen: 20.129 ng
RT: 12.639 min Scan# 1776
Delta R.T. -0.006 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:202 Resp: 237713

Ion	Ratio	Lower	Upper
202	100		
101	9.4	0.0	29.6
203	17.3	0.0	37.2



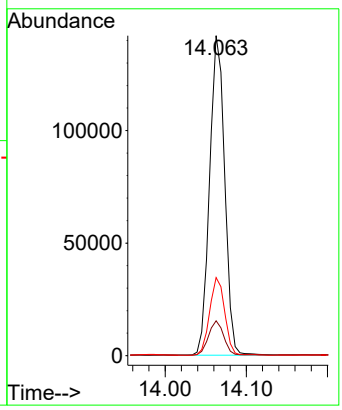


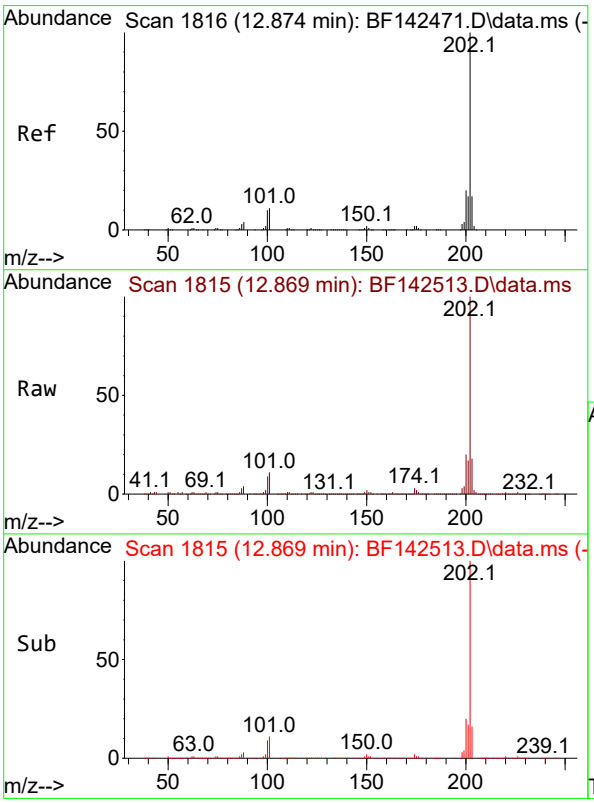
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:240 Resp: 182992

Ion	Ratio	Lower	Upper
240	100		
120	10.9	7.5	11.3
236	24.4	19.6	29.4

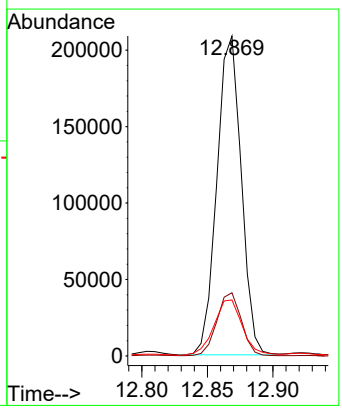


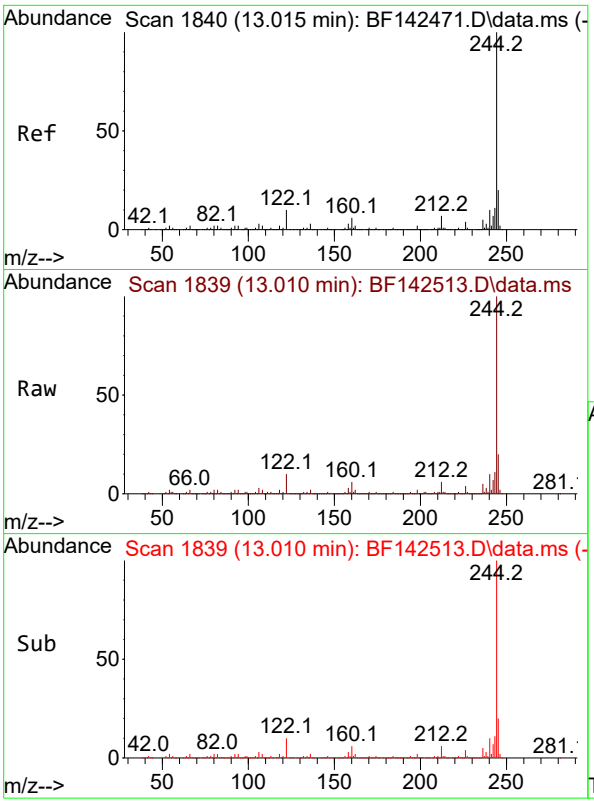


#78
Pyrene
Concen: 15.776 ng
RT: 12.869 min Scan# 1815
Delta R.T. -0.006 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:202 Resp: 269306

Ion	Ratio	Lower	Upper
202	100		
200	19.7	16.1	24.1
203	17.5	13.9	20.9



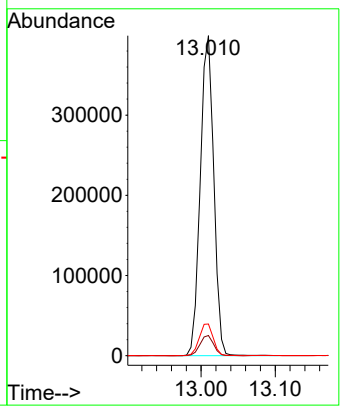


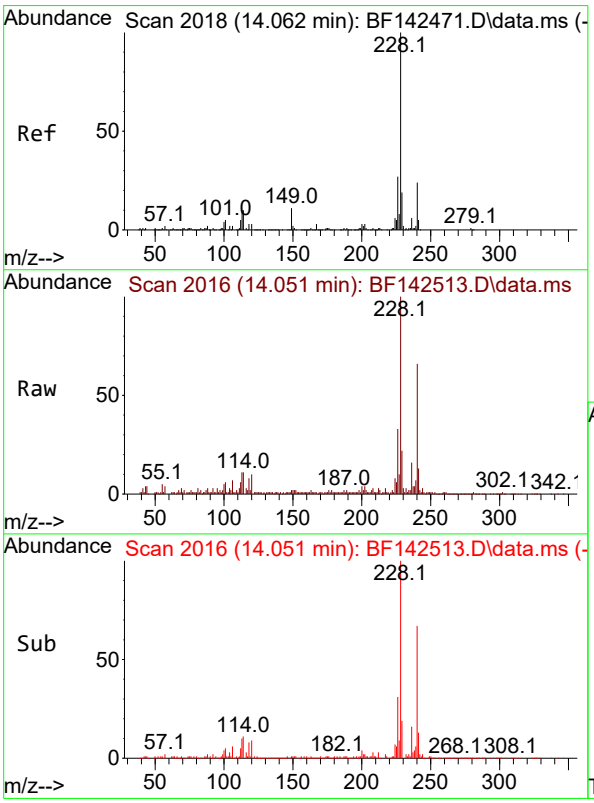
#79
Terphenyl-d14
Concen: 37.659 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:244 Resp: 504282

Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.3	7.9
122	9.9	8.2	12.2

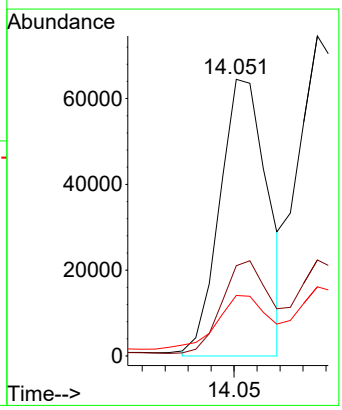


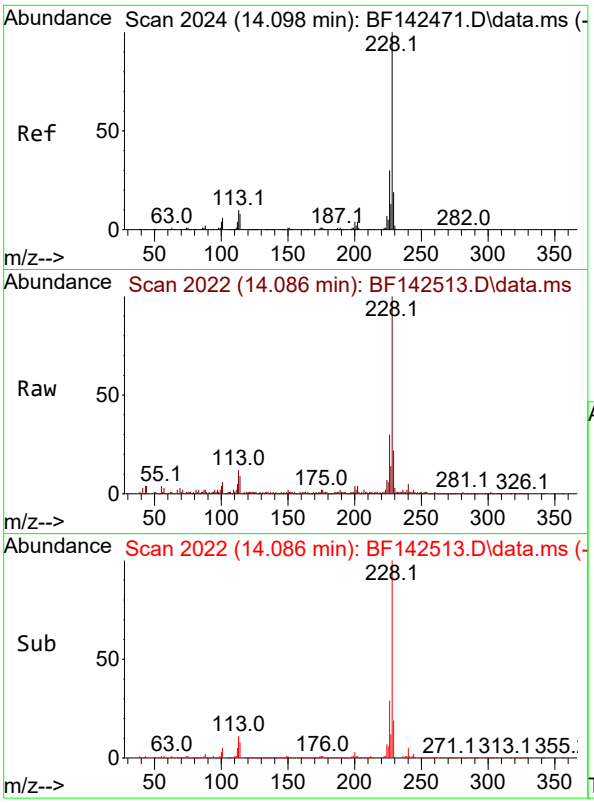


#81
Benzo(a)anthracene
Concen: 7.617 ng m
RT: 14.051 min Scan# 2016
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:228 Resp: 93070

Ion	Ratio	Lower	Upper
228	100		
226	32.6	21.2	31.8#
229	21.8	15.5	23.3



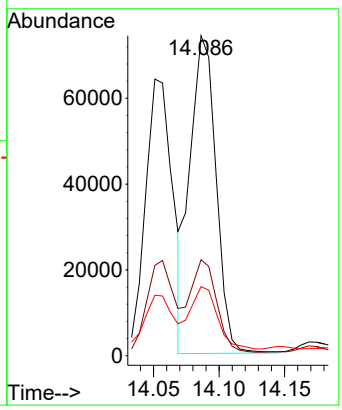


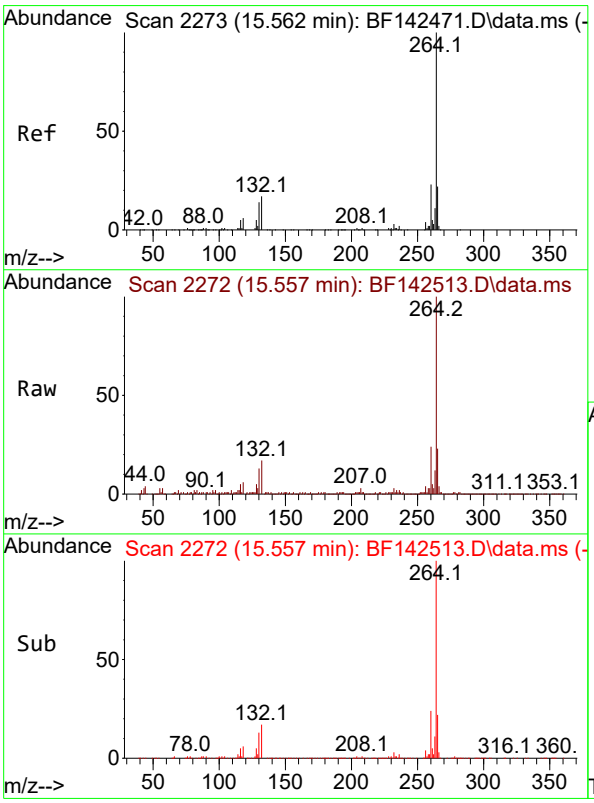
#83
Chrysene
Concen: 9.345 ng
RT: 14.086 min Scan# 2
Delta R.T. -0.017 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:228 Resp: 102605

Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.8	35.6
229	21.6	15.4	23.2

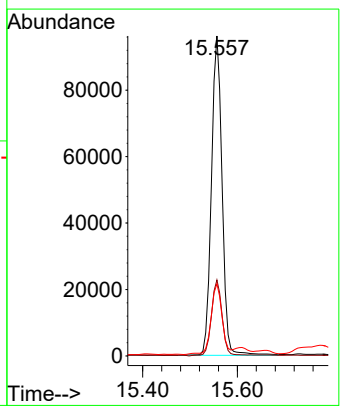


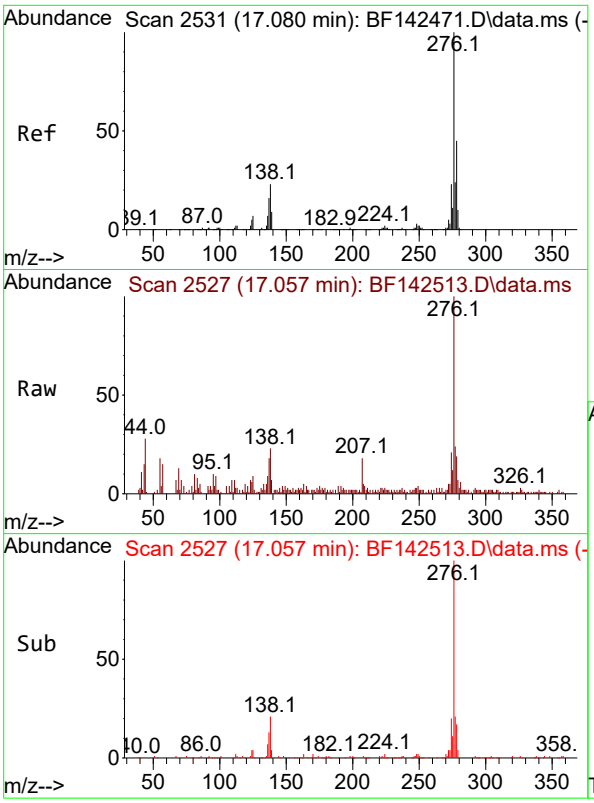


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:264 Resp: 150268

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.6	28.0
265	22.5	17.7	26.5



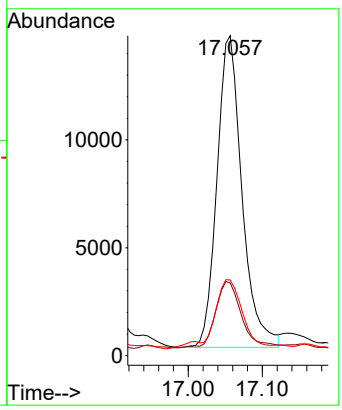


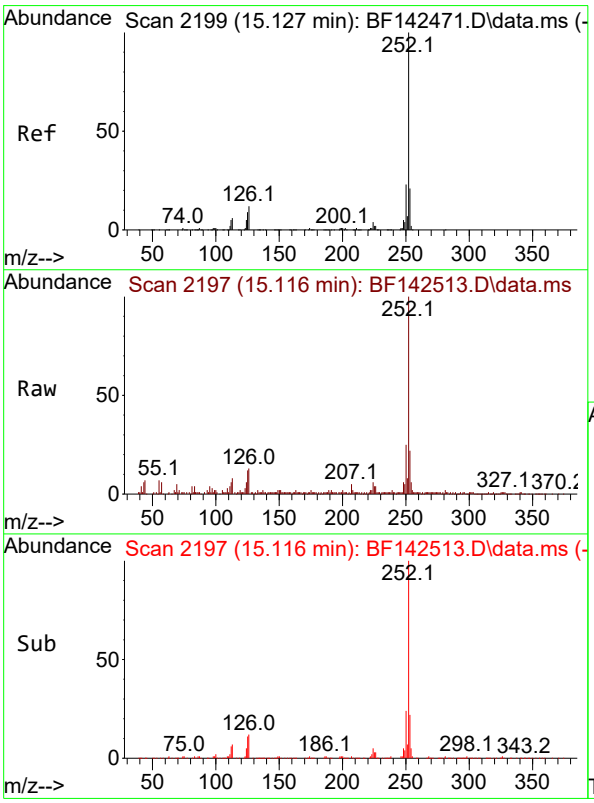
#87
Indeno(1,2,3-cd)pyrene
Concen: 3.005 ng
RT: 17.057 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:276 Resp: 33902

Ion	Ratio	Lower	Upper
276	100		
138	22.1	19.9	29.9
277	25.0	20.2	30.2

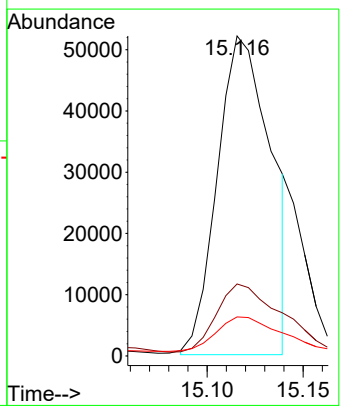


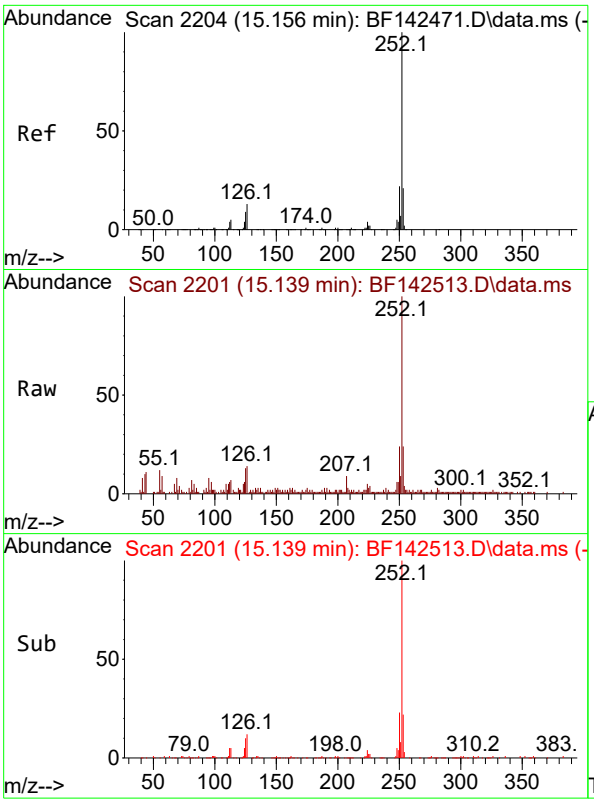


#88
Benzo(b)fluoranthene
Concen: 11.366 ng m
RT: 15.116 min Scan# 2197
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:252 Resp: 101084

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.0	25.4
125	12.2	7.4	11.0#



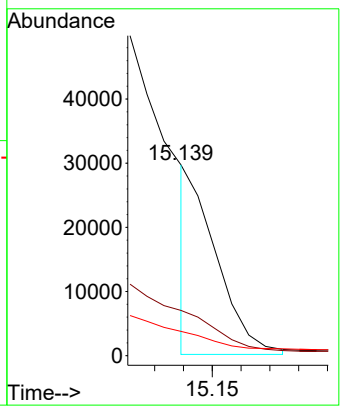


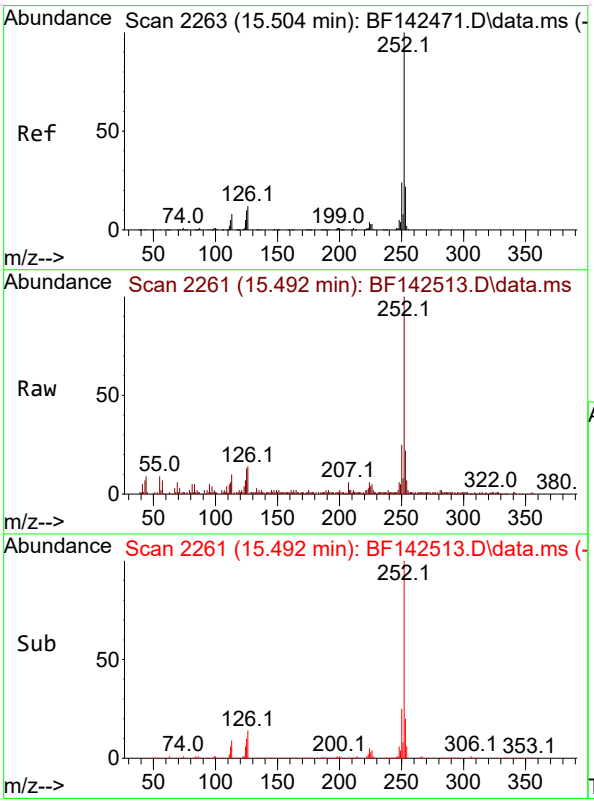
#89
Benzo(k)fluoranthene
Concen: 2.284 ng m
RT: 15.139 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:252 Resp: 19022

Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.0	25.4
125	12.8	7.3	10.9#

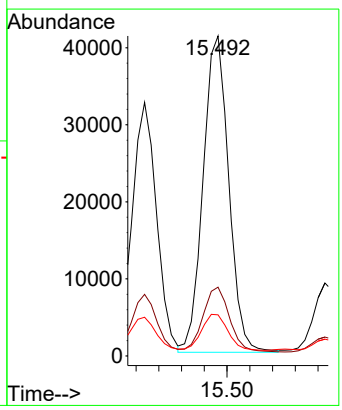


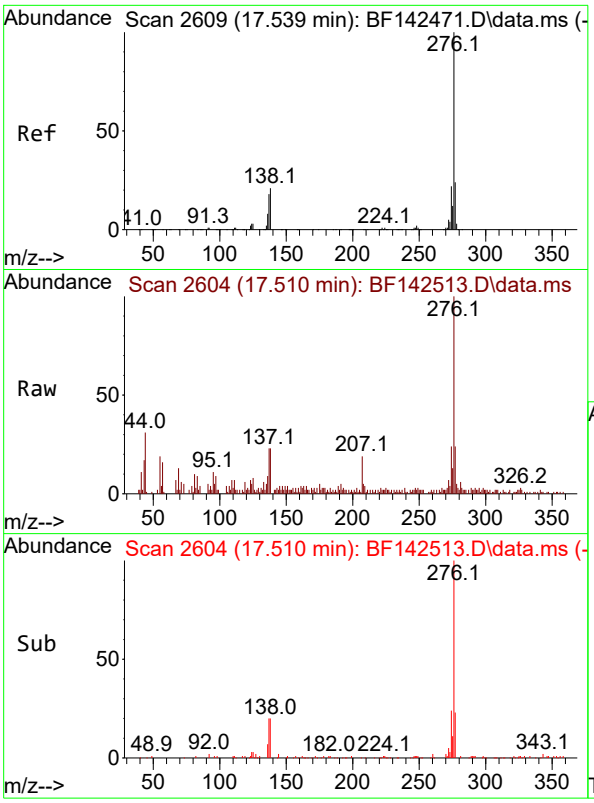


#90
Benzo(a)pyrene
Concen: 7.683 ng
RT: 15.492 min Scan# 2261
Delta R.T. -0.017 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:252 Resp: 64411

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.4	26.0
125	12.8	7.9	11.9#



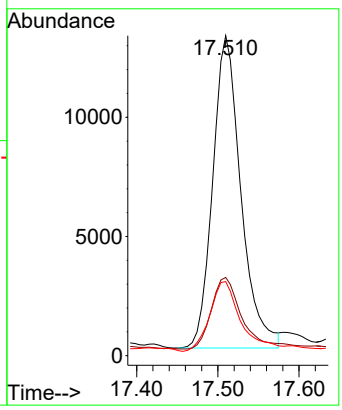


#92
Benzo(g,h,i)perylene
Concen: 3.451 ng
RT: 17.510 min Scan# 2
Delta R.T. -0.047 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:276 Resp: 31581

Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.2	28.8
138	23.1	16.8	25.2



Sample Results: **BF142513.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142513.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.116	488	497	507	rBV	122047	186220	10.91%	1.076%
2	5.510	558	564	570	rBV	1278301	1706343	100.00%	9.855%
3	6.516	729	735	747	rBV	1246315	1667011	97.69%	9.628%
4	6.898	795	800	805	rVB	482327	590540	34.61%	3.411%
5	7.457	884	895	900	rBV	780974	1016487	59.57%	5.871%
6	7.540	904	909	913	rVB3	19066	30183	1.77%	0.174%
7	7.598	913	919	922	rBV2	13276	23363	1.37%	0.135%
8	7.675	929	932	935	rBV2	15718	19570	1.15%	0.113%
9	7.710	935	938	944	rVB3	32759	45973	2.69%	0.266%
10	7.775	945	949	953	rBV2	11517	20156	1.18%	0.116%
11	7.822	953	957	960	rVB3	22258	24991	1.46%	0.144%
12	8.057	993	997	999	rBV2	12212	17379	1.02%	0.100%
13	8.128	1005	1009	1012	rBV4	12259	20059	1.18%	0.116%
14	8.181	1012	1018	1024	rVV	544072	716383	41.98%	4.138%
15	8.234	1024	1027	1031	rVV	56786	79646	4.67%	0.460%
16	8.269	1031	1033	1040	rVB5	20864	34790	2.04%	0.201%
17	8.387	1050	1053	1060	rVB5	22763	38851	2.28%	0.224%
18	8.469	1061	1067	1073	rBV7	25004	57572	3.37%	0.333%
19	8.522	1073	1076	1079	rBV3	16402	18411	1.08%	0.106%
20	8.598	1085	1089	1092	rBV	40133	55475	3.25%	0.320%
21	8.722	1106	1110	1114	rBV6	14756	23915	1.40%	0.138%
22	8.863	1131	1134	1138	rVB3	28170	35468	2.08%	0.205%
23	9.057	1163	1167	1170	rBV4	18265	32391	1.90%	0.187%
24	9.175	1184	1187	1188	rBV	17941	19422	1.14%	0.112%
25	9.198	1188	1191	1195	rVB2	28619	34971	2.05%	0.202%
26	9.251	1195	1200	1206	rVB	1147831	1437198	84.23%	8.301%
27	9.339	1210	1215	1219	rBV2	36976	62795	3.68%	0.363%
28	9.592	1255	1258	1263	rVB3	19453	27492	1.61%	0.159%
29	9.645	1263	1267	1274	rVB5	62840	95284	5.58%	0.550%
30	9.798	1289	1293	1297	rBV	72271	97953	5.74%	0.566%
31	9.845	1297	1301	1305	rVB2	34032	46516	2.73%	0.269%
32	9.934	1311	1316	1320	rVV	472277	585927	34.34%	3.384%
33	10.186	1356	1359	1366	rVB4	24185	42861	2.51%	0.248%
34	10.251	1367	1370	1373	rBV3	17080	23885	1.40%	0.138%
35	10.345	1382	1386	1391	rBV5	18019	29035	1.70%	0.168%
36	10.481	1406	1409	1416	rVB	28326	42798	2.51%	0.247%

Sample Results: **BF142513.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	10.645	1432	1437	1444	rVB	95708	126581	7.42%	0.731%
38	10.722	1445	1450	1462	rVB	692348	880159	51.58%	5.083%
39	10.845	1467	1471	1478	rVB	30591	48245	2.83%	0.279%
40	11.028	1498	1502	1505	rBV2	17919	30748	1.80%	0.178%
41	11.057	1505	1507	1513	rVV2	20654	28230	1.65%	0.163%
42	11.316	1547	1551	1557	rVB	26153	43971	2.58%	0.254%
43	11.422	1564	1569	1578	rBV2	468299	671496	39.35%	3.878%
44	11.498	1578	1582	1585	rVV	30449	39056	2.29%	0.226%
45	11.751	1622	1625	1632	rVB	27724	40220	2.36%	0.232%
46	11.833	1636	1639	1644	rVB	16082	21869	1.28%	0.126%
47	11.945	1650	1658	1663	rBV2	102327	245019	14.36%	1.415%
48	11.998	1664	1667	1669	rVV2	22367	29321	1.72%	0.169%
49	12.039	1669	1674	1682	rVB2	140723	285039	16.70%	1.646%
50	12.157	1691	1694	1697	rVB2	16704	18984	1.11%	0.110%
51	12.222	1701	1705	1708	rBV	36596	51840	3.04%	0.299%
52	12.369	1725	1730	1732	rBV2	22063	32524	1.91%	0.188%
53	12.398	1732	1735	1738	rBV	25826	31854	1.87%	0.184%
54	12.475	1744	1748	1751	rBV	83727	113076	6.63%	0.653%
55	12.510	1751	1754	1760	rVV2	56816	93277	5.47%	0.539%
56	12.563	1760	1763	1771	rVB3	36087	71664	4.20%	0.414%
57	12.639	1771	1776	1780	rBV	412256	531518	31.15%	3.070%
58	12.680	1780	1783	1788	rBV5	23206	39948	2.34%	0.231%
59	12.733	1789	1792	1795	rVB	28401	30023	1.76%	0.173%
60	12.792	1799	1802	1805	rBV2	18889	24558	1.44%	0.142%
61	12.869	1809	1815	1821	rVV	440594	616438	36.13%	3.560%
62	13.010	1833	1839	1846	rVB	1039370	1372874	80.46%	7.929%
63	13.086	1847	1852	1858	rBV2	61296	115416	6.76%	0.667%
64	13.192	1863	1870	1874	rVB	101994	192793	11.30%	1.114%
65	13.263	1878	1882	1885	rVV	68657	95804	5.61%	0.553%
66	13.298	1885	1888	1896	rVB2	83411	113673	6.66%	0.657%
67	13.392	1900	1904	1906	rVV	61493	81520	4.78%	0.471%
68	13.422	1906	1909	1913	rVB	52932	63408	3.72%	0.366%
69	13.904	1987	1991	2001	rVB5	64749	116094	6.80%	0.671%
70	14.063	2012	2018	2029	rBV2	487565	996343	58.39%	5.755%
71	15.116	2192	2197	2206	rBV	131612	311510	18.26%	1.799%
72	15.427	2246	2250	2256	rVB	81214	120763	7.08%	0.697%
73	15.492	2257	2261	2266	rVB	103937	159447	9.34%	0.921%
74	15.557	2267	2272	2284	rBV	244851	421422	24.70%	2.434%

Sum of corrected areas: 17314039

Instrument :
BNA_F
ClientSampleId :
TP-12

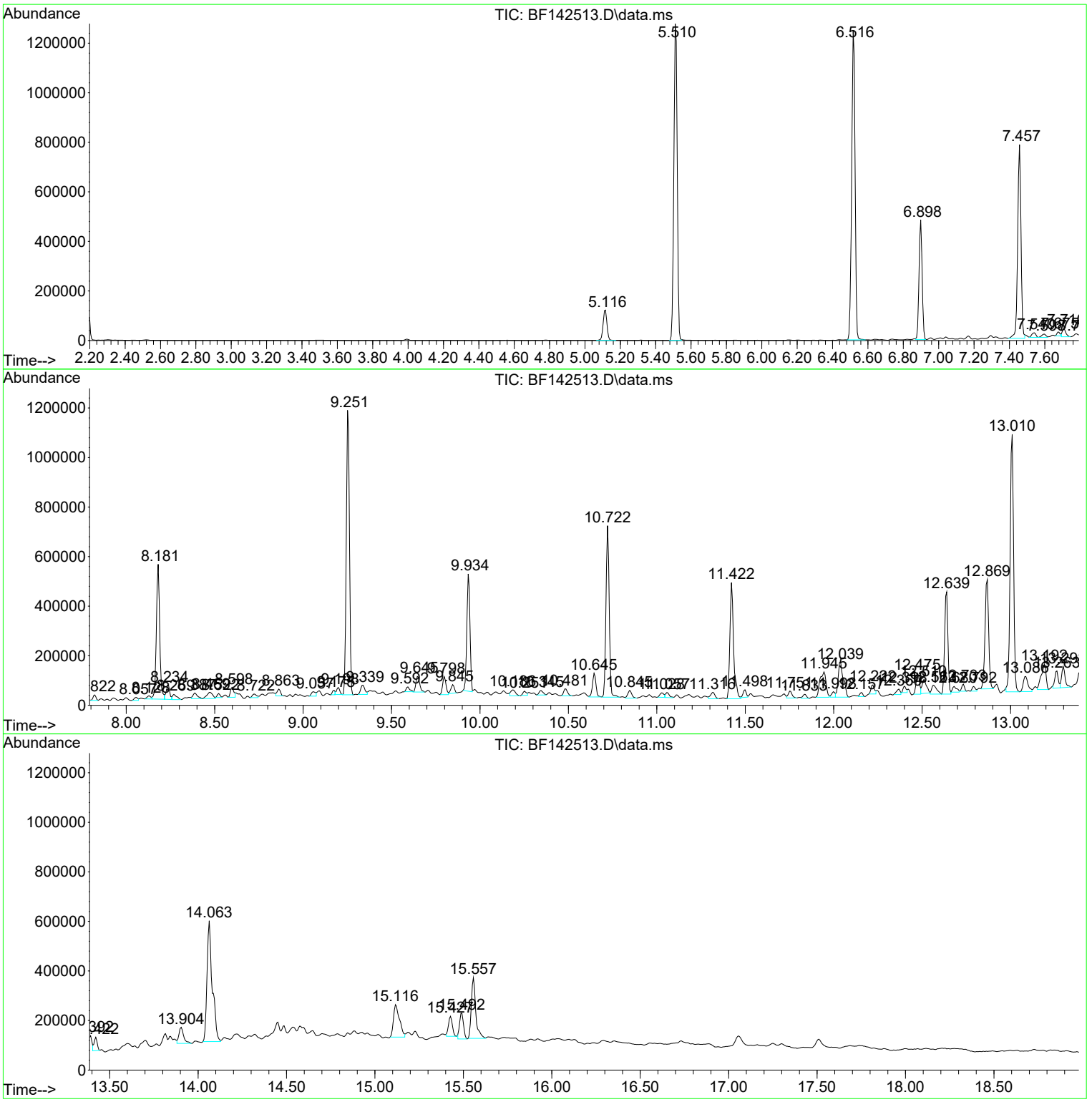
Sample Results: **BF142513.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.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\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

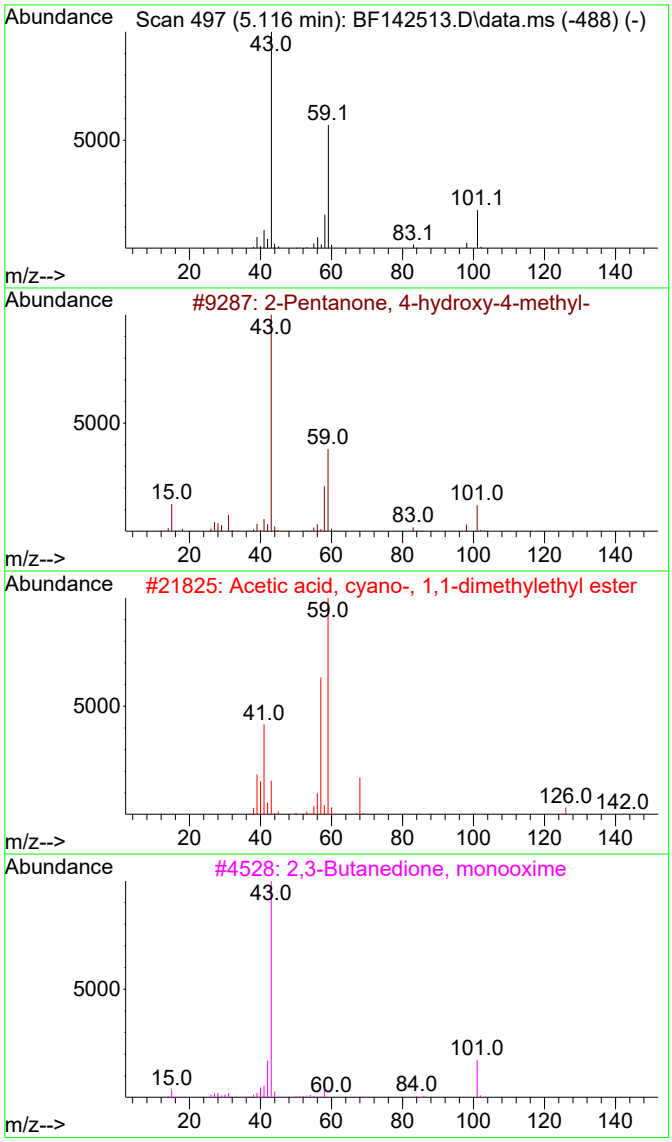
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

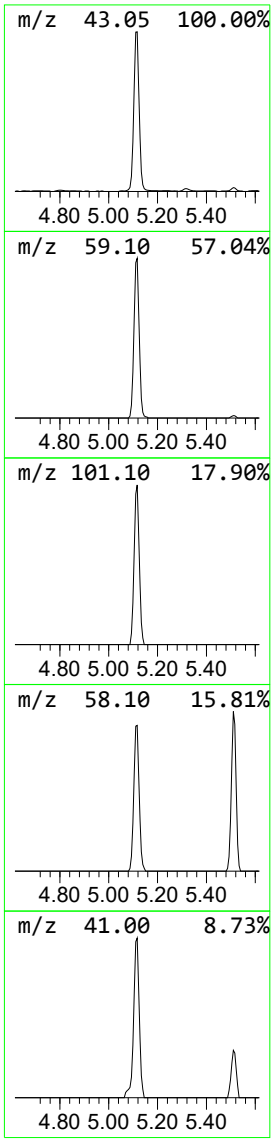
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	6.31 ng	186220	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

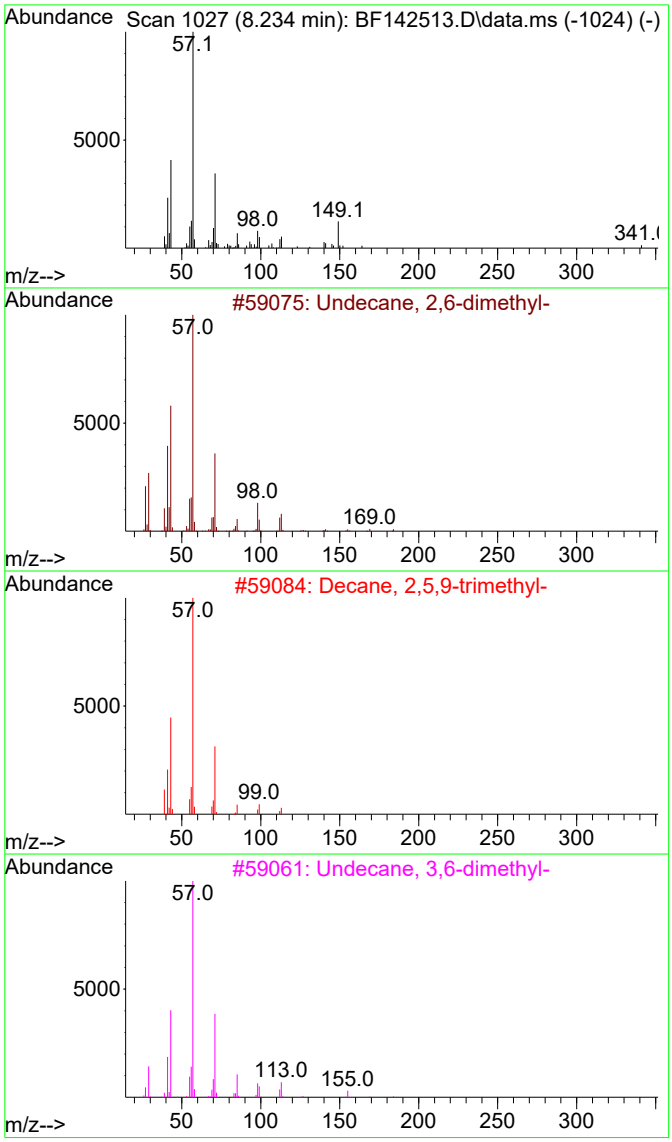
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

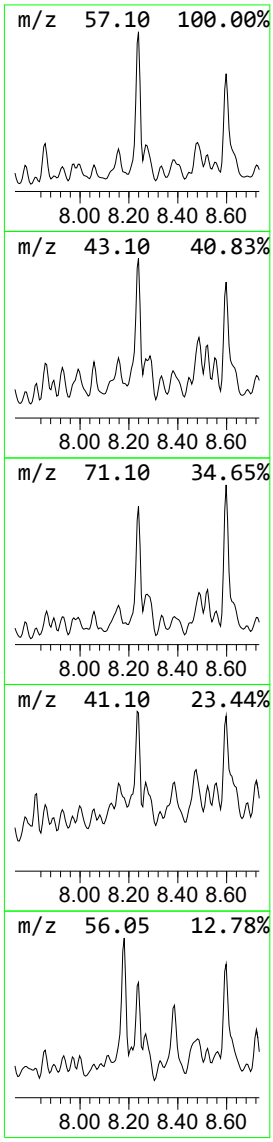
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Undecane, 2,6-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.234	2.22 ng	79646	Naphthalene-d8	8.181

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	72
2	Decane, 2,5,9-trimethyl-	184	C13H28	062108-22-9	64
3	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	64
4	Sulfurous acid, butyl 2-ethylhex...	250	C12H26O3S	1000309-18-8	50
5	Eicosyl octyl ether	410	C28H58O	1000406-38-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

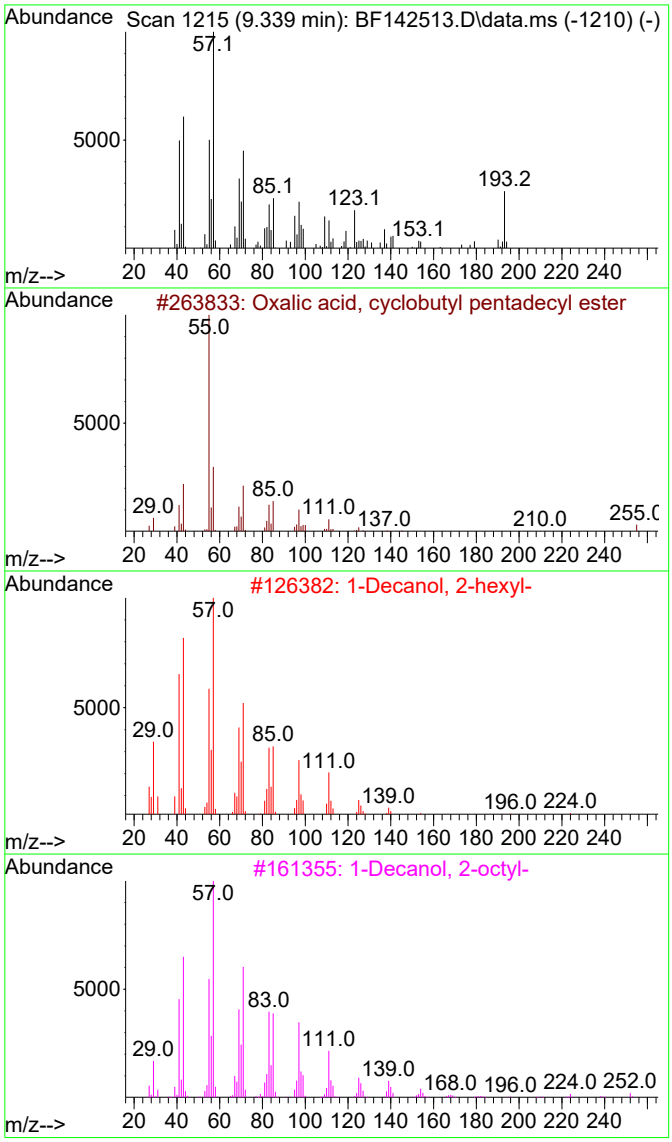
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

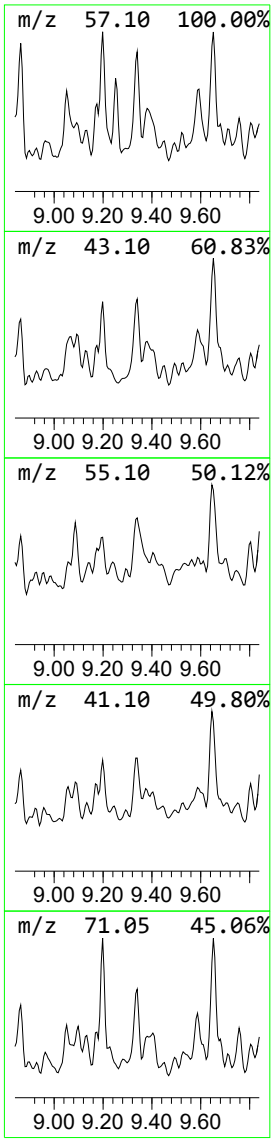
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Oxalic acid, cyclobutyl pen... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.339	2.14 ng	62795	Acenaphthene-d10	9.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxalic acid, cyclobutyl pentadec...	354	C21H38O4	1010309-70-5	58
2	1-Decanol, 2-hexyl-	242	C16H34O	002425-77-6	52
3	1-Decanol, 2-octyl-	270	C18H38O	045235-48-1	50
4	Octadecane, 1-bromo-	332	C18H37Br	000112-89-0	46
5	Pentadecane, 1-bromo-	290	C15H31Br	000629-72-1	46





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Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

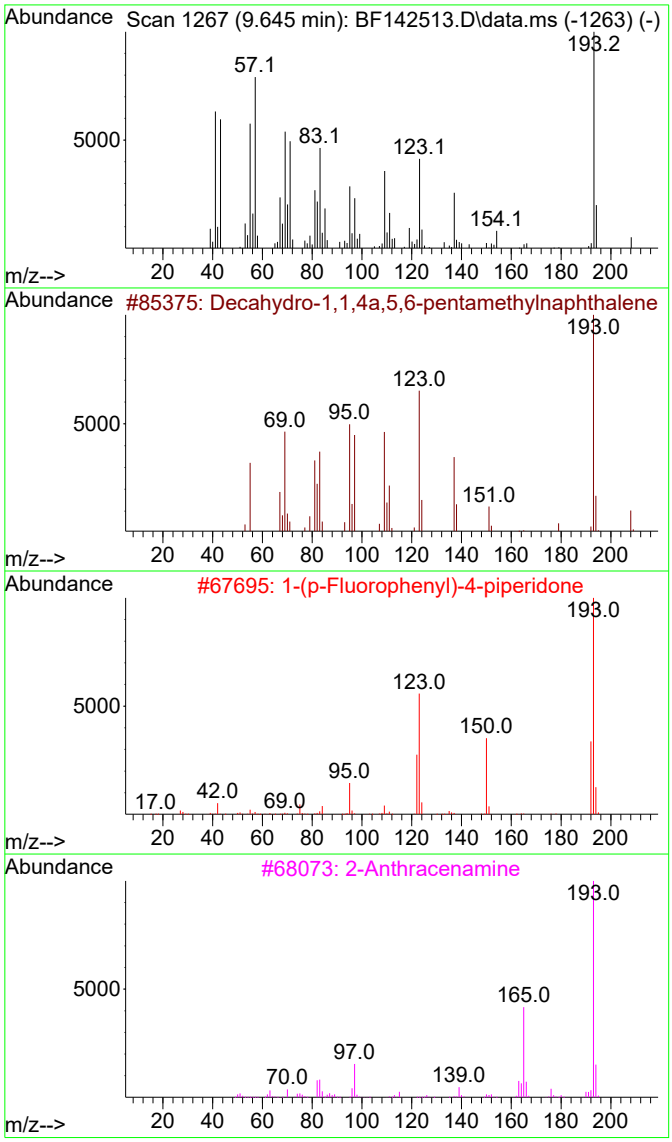
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

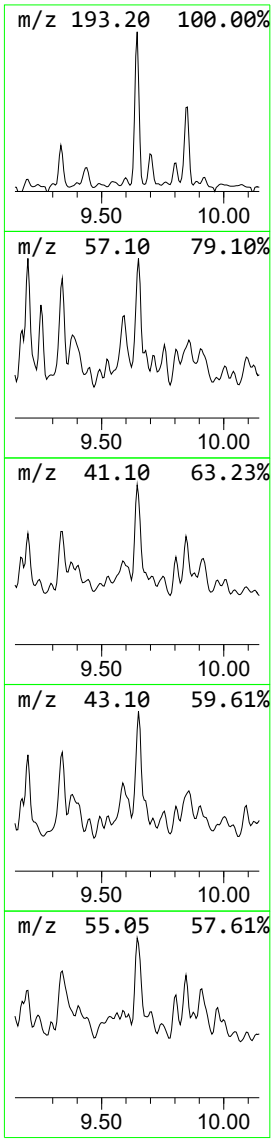
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Decahydro-1,1,4a,5,6-pentam... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.645	3.25 ng	95284	Acenaphthene-d10	9.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decahydro-1,1,4a,5,6-pentamethyl...	208	C15H28	080655-44-3	60
2	1-(p-Fluorophenyl)-4-piperidone	193	C11H12FNO	1000238-56-7	38
3	2-Anthracenamine	193	C14H11N	000613-13-8	25
4	Trisiloxane, 1,1,3,3,5,5-hexamet...	208	C6H20O2Si3	001189-93-1	22
5	Iminostilbene	193	C14H11N	000256-96-2	22





Sample Results: **BF142513.D**

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Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

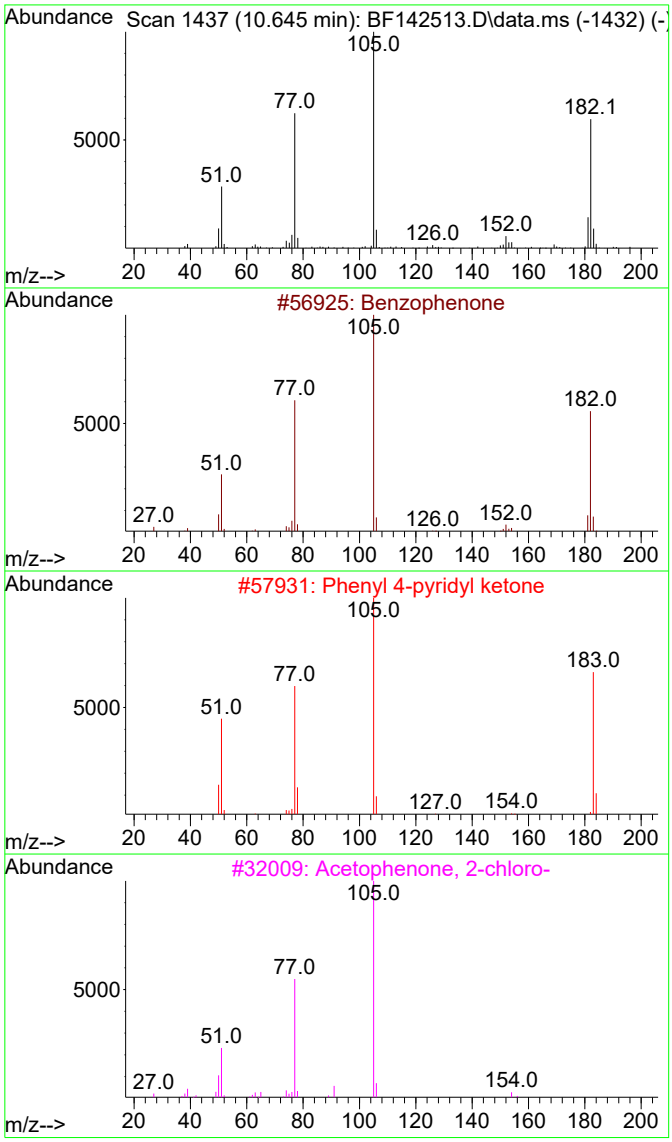
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

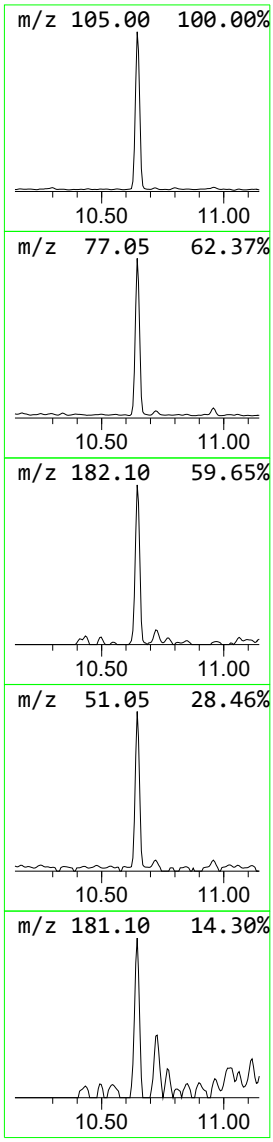
****

Peak Number 5 Benzophenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	4.32 ng	126581	Acenaphthene-d10	9.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	52
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	46
4	2-(2-Oxo-2-phenyl-ethyl)-malonon...	184	C11H8N2O	1000296-76-9	43
5	Vinyl benzoate	148	C9H8O2	000769-78-8	43





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Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

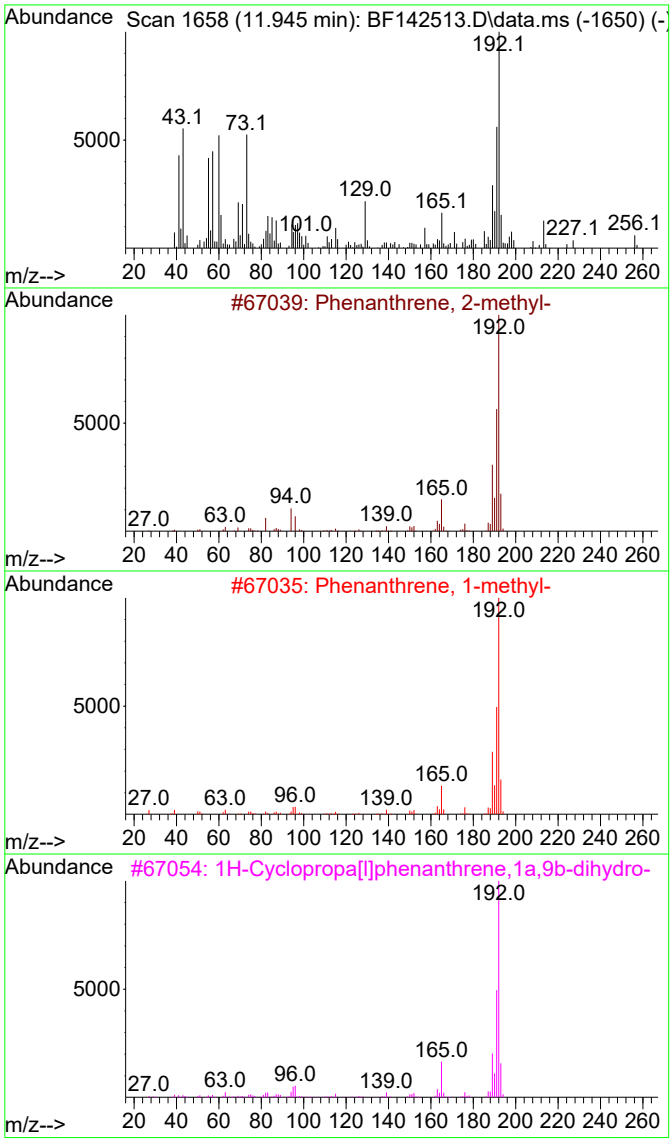
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

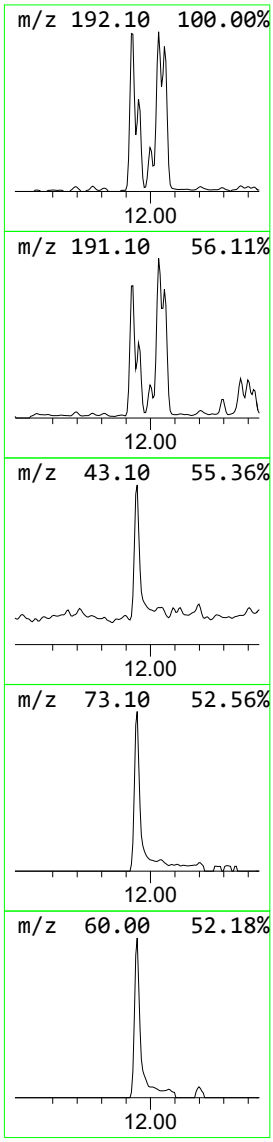
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	7.30 ng	245019	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	92





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Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

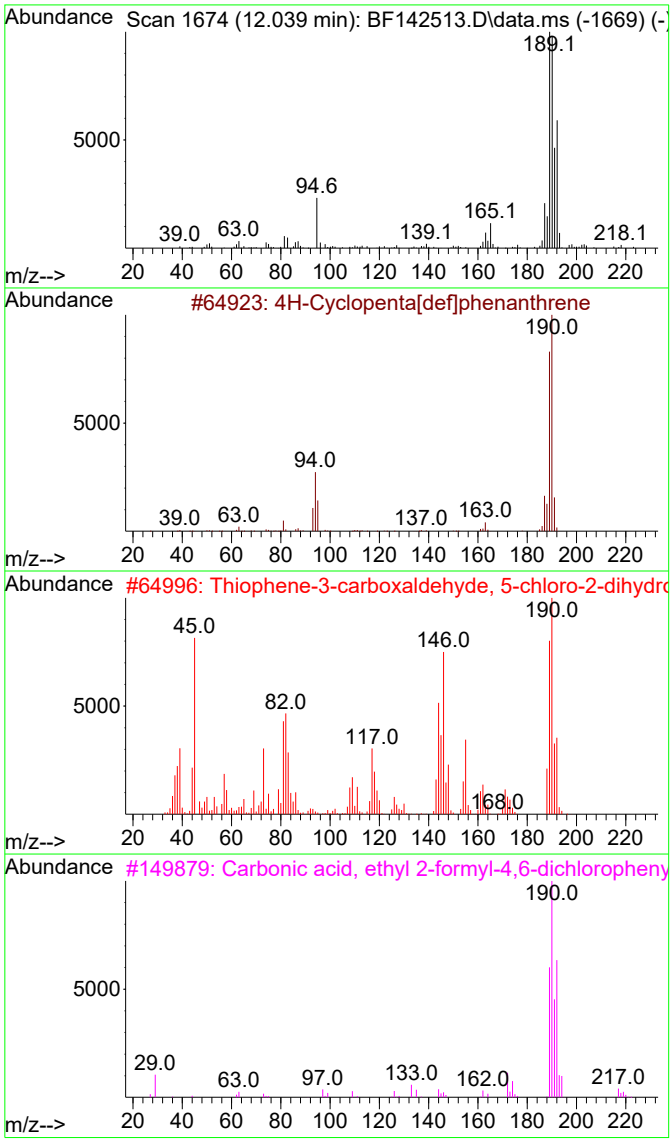
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

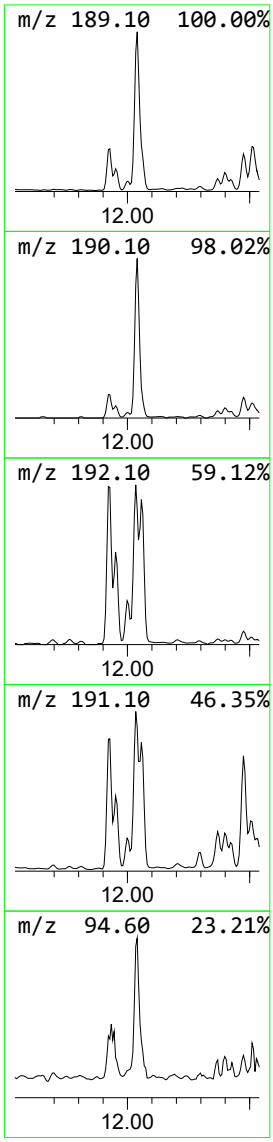
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.039	8.49 ng	285039	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	50
3	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	50
4	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	50
5	4,6-Dichloro-2-ethylpyrimidin-5-...	191	C6H7Cl2N3	006237-96-3	43





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Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

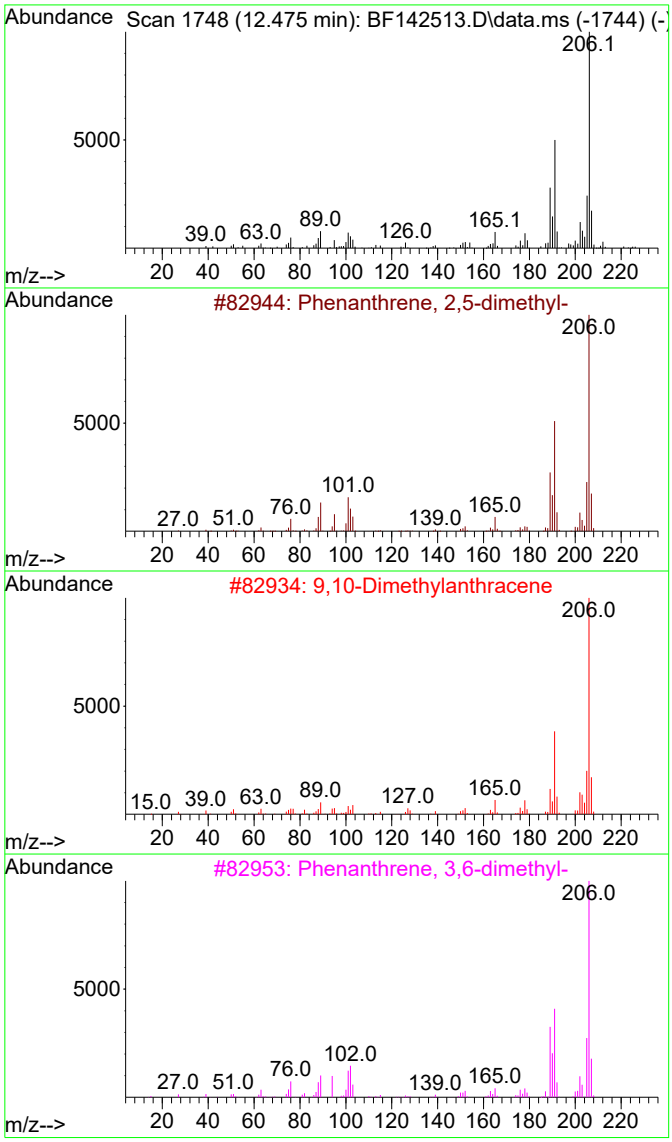
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

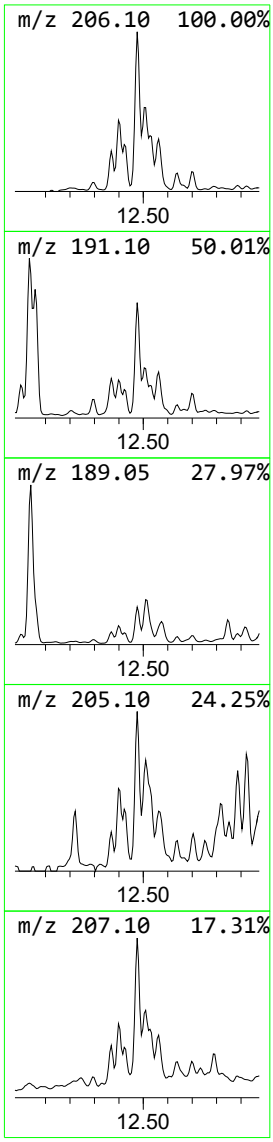
****

Peak Number 8 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.475	3.37 ng	113076	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
4	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	90
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	90





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Acq On : 22 May 2025 16:34
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Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

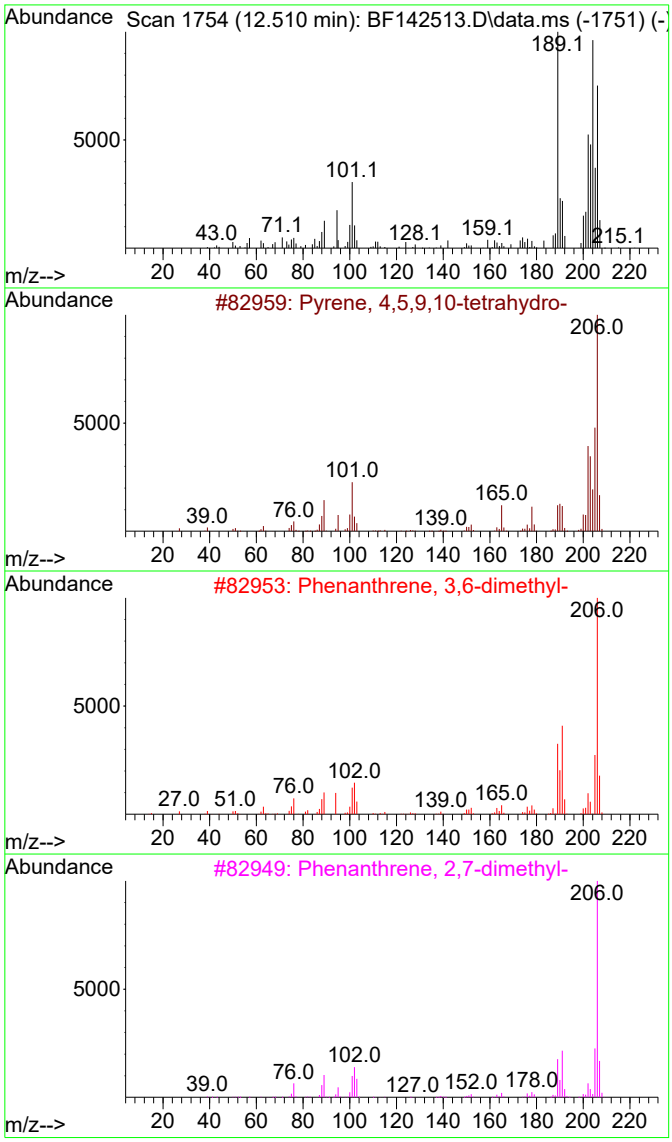
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

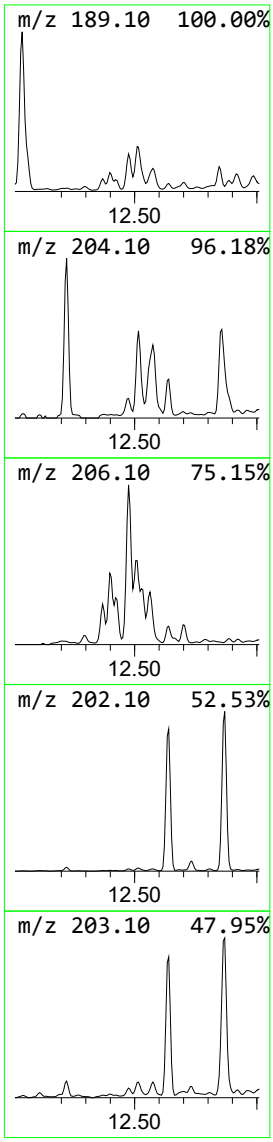
****

Peak Number 9 unknown12.510 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.510	2.78 ng	93277	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	42
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	38
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	38
4	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	30
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	30





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Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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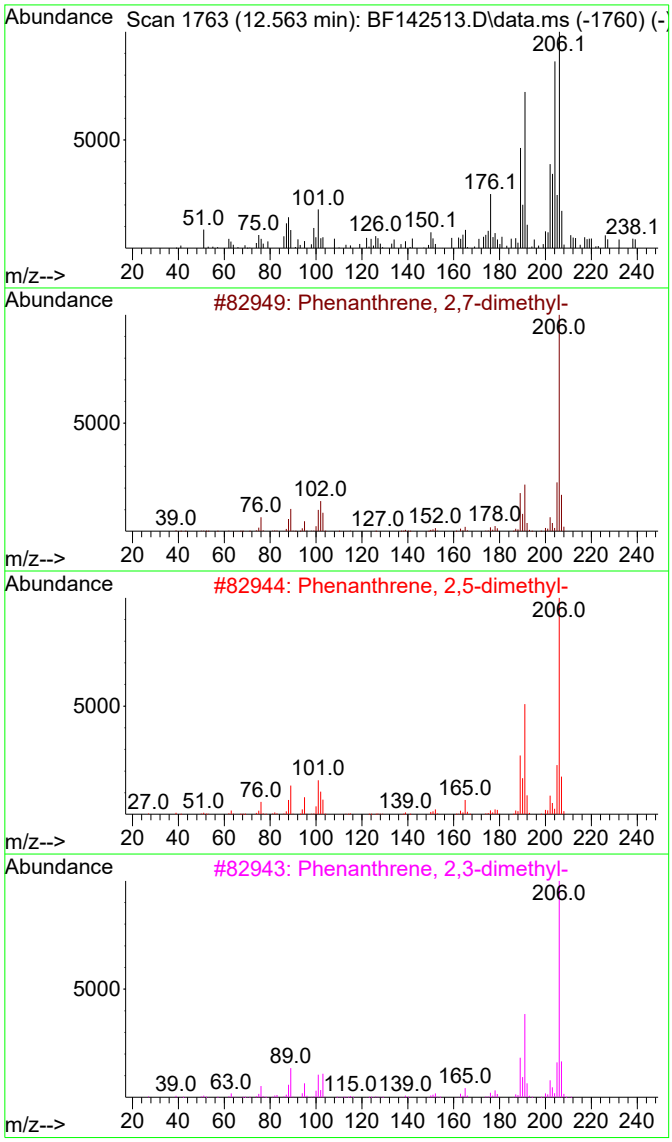
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

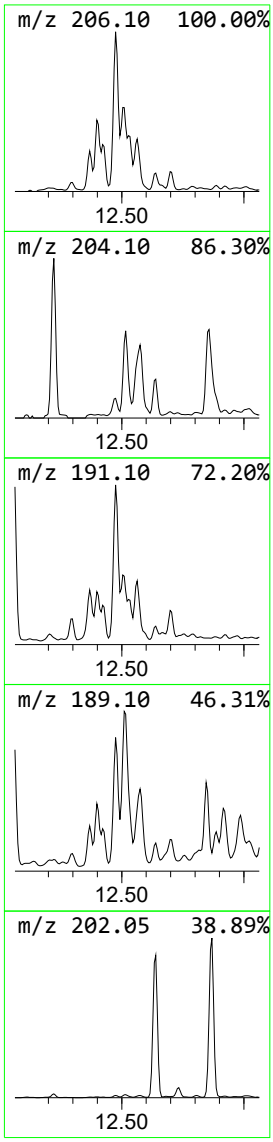
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Phenanthrene, 2,7-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.563	2.13 ng	71664	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	70
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	64
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	55
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	55
5	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	50





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Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

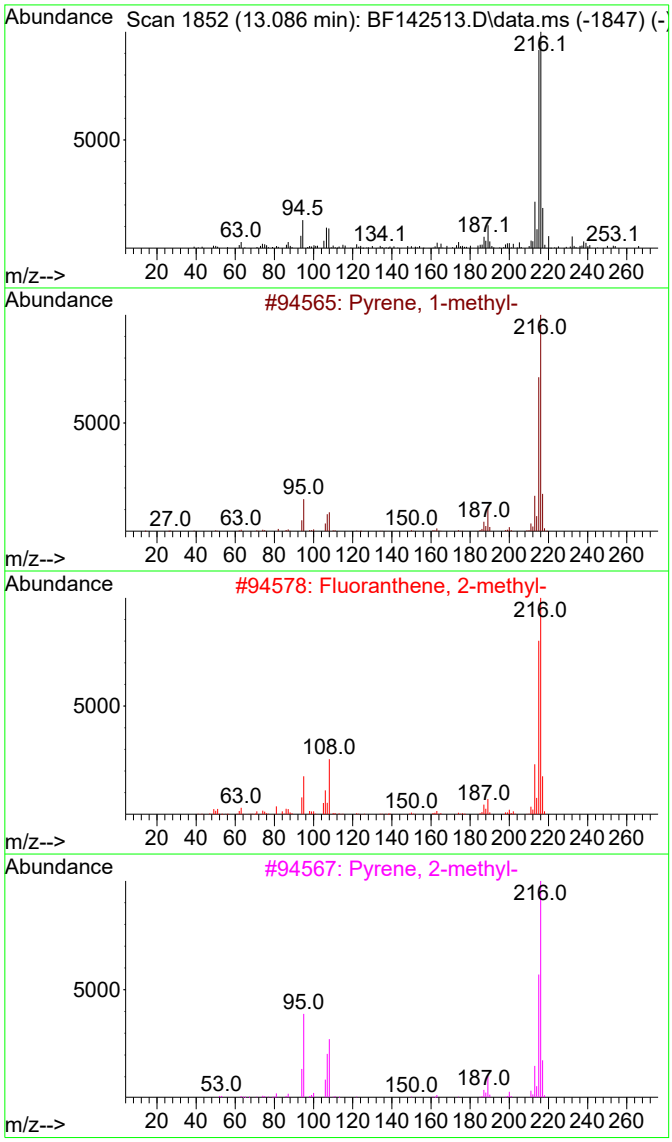
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

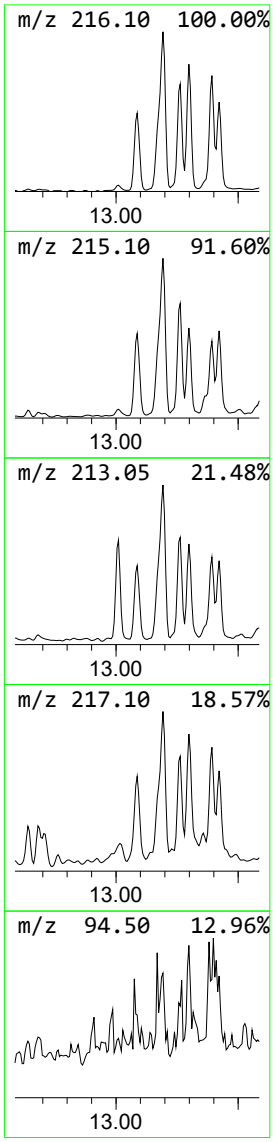
****

Peak Number 11 Pyrene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.086	2.32 ng	115416	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	92
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87





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Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

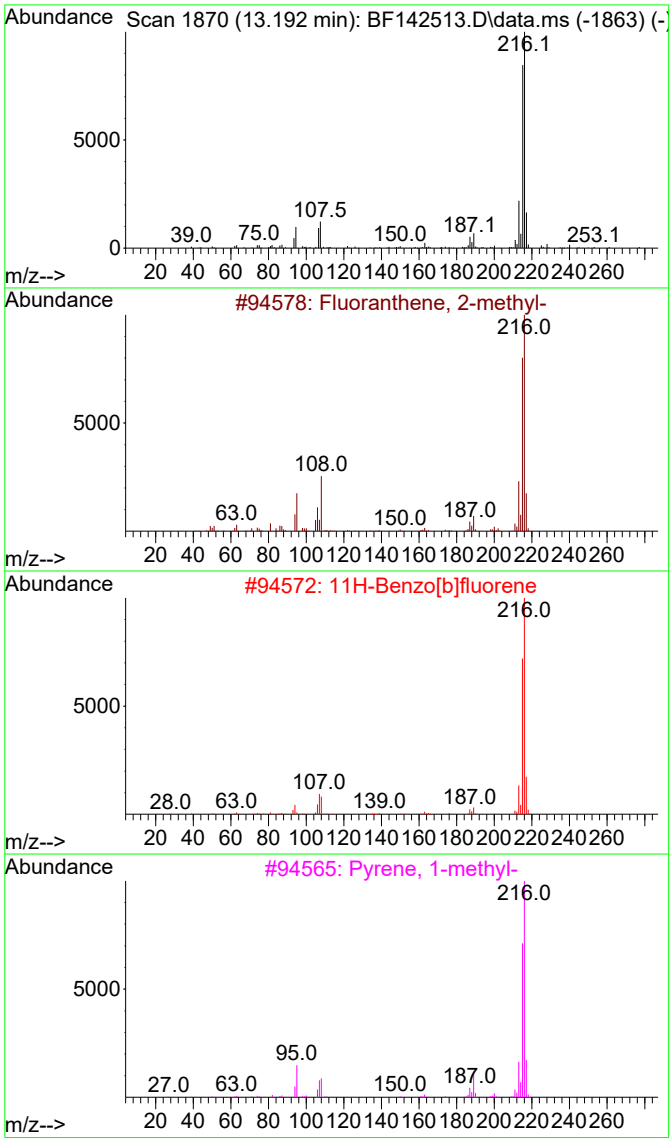
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

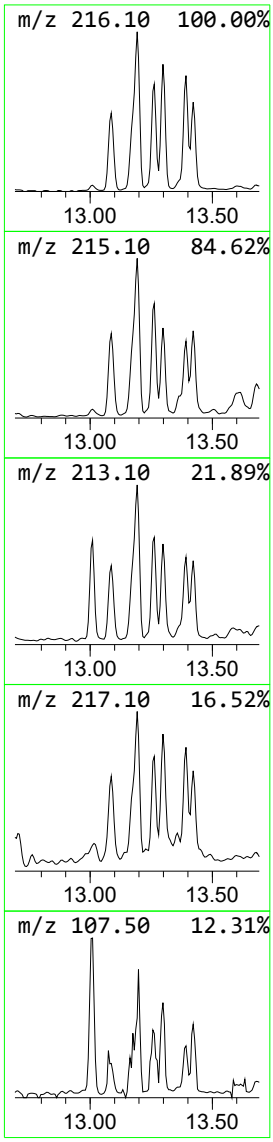
****

Peak Number 12 Fluoranthene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.192	3.87 ng	192793	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81





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Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

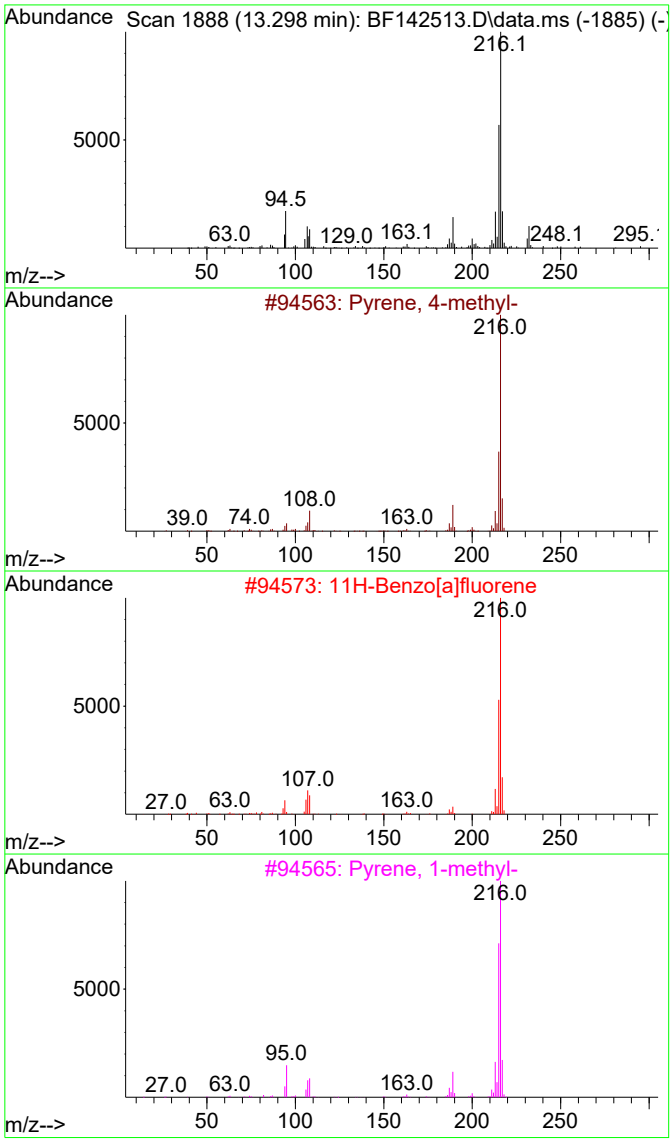
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

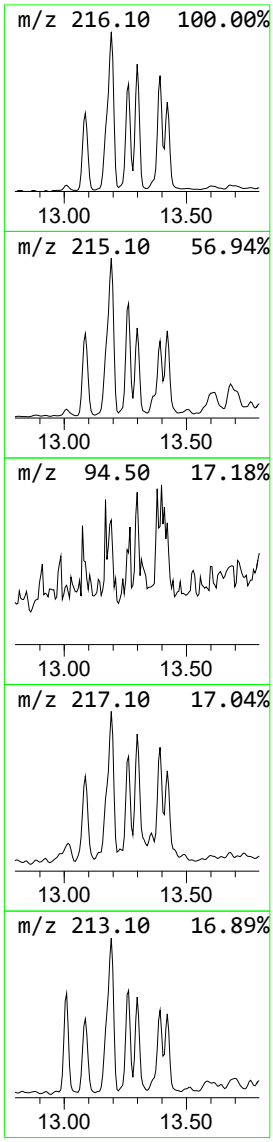
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 13 Pyrene, 4-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.298	2.28 ng	113673	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4-methyl-	216	C17H12	003353-12-6	95
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93





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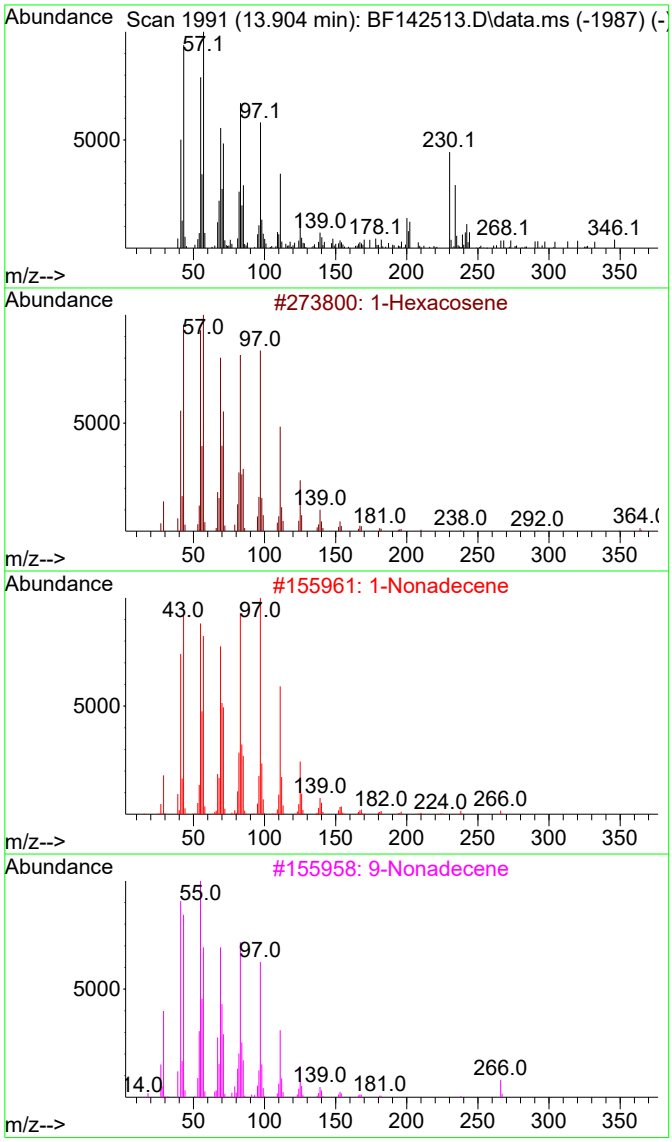
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

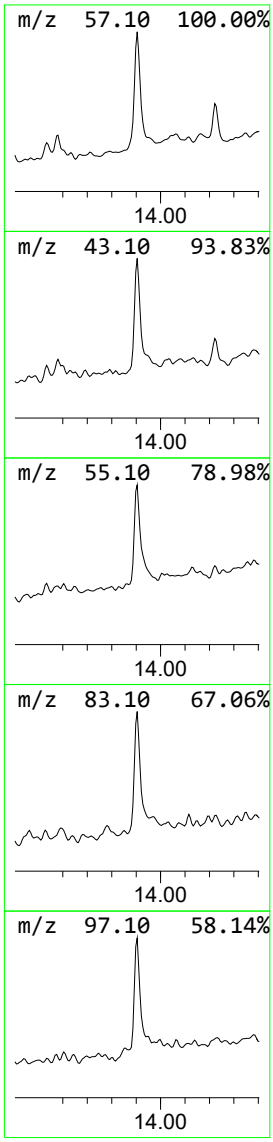
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 14 1-Hexacosene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	2.33 ng	116094	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexacosene	364	C26H52	018835-33-1	83
2	1-Nonadecene	266	C19H38	018435-45-5	78
3	9-Nonadecene	266	C19H38	031035-07-1	78
4	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	70
5	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	70





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

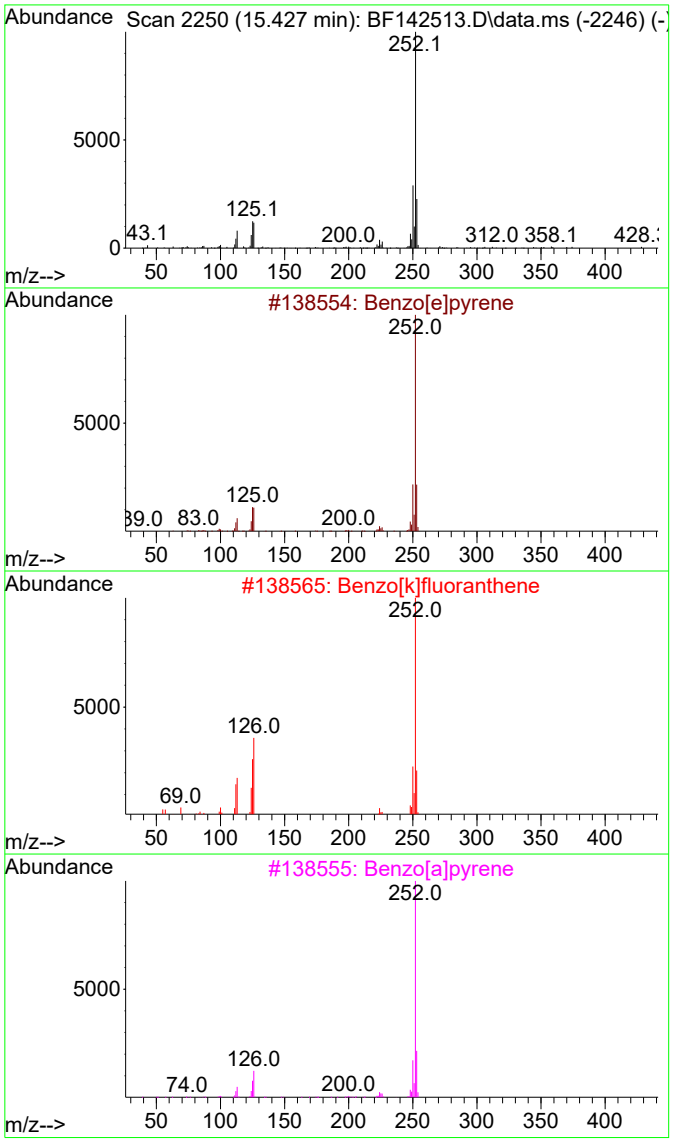
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

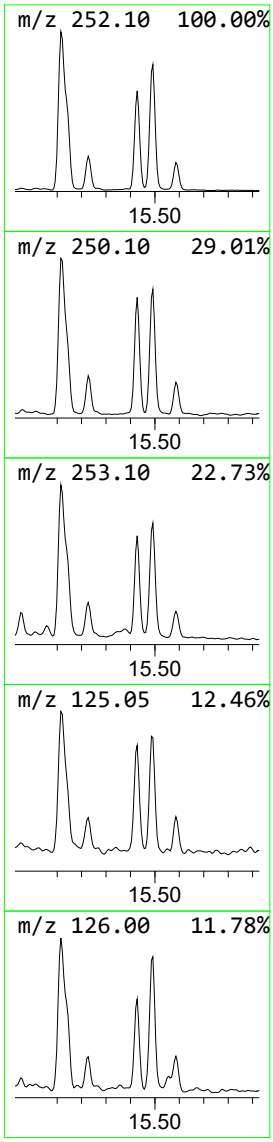
****

Peak Number 15 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.427	5.73 ng	120763	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Benzo[a]pyrene	252	C20H12	000050-32-8	93
4	Benzo[b]fluoranthene	252	C20H12	000205-99-2	91
5	Perylene	252	C20H12	000198-55-0	81





Sample Results: **BF142513.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.116	6.3	ng	186220	1	6.898	590540	20.0
Undecane, 2,6-d...	8.234	2.2	ng	79646	2	8.181	716383	20.0
Oxalic acid, cy...	9.339	2.1	ng	62795	3	9.934	585927	20.0
Decahydro-1,1,4...	9.645	3.3	ng	95284	3	9.934	585927	20.0
Benzophenone	10.645	4.3	ng	126581	3	9.934	585927	20.0
Phenanthrene, 2...	11.945	7.3	ng	245019	4	11.422	671496	20.0
4H-Cyclopenta[d...	12.039	8.5	ng	285039	4	11.422	671496	20.0
Phenanthrene, 2...	12.475	3.4	ng	113076	4	11.422	671496	20.0
unknown12.510	12.510	2.8	ng	93277	4	11.422	671496	20.0
Phenanthrene, 2...	12.563	2.1	ng	71664	4	11.422	671496	20.0
Pyrene, 1-methyl-	13.086	2.3	ng	115416	5	14.063	996343	20.0
Fluoranthene, 2...	13.192	3.9	ng	192793	5	14.063	996343	20.0
Pyrene, 4-methyl-	13.298	2.3	ng	113673	5	14.063	996343	20.0
1-Hexacosene	13.904	2.3	ng	116094	5	14.063	996343	20.0
Benzo[e]pyrene	15.427	5.7	ng	120763	6	15.557	421422	20.0

Raw Data: **BF142481.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.7
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
BF142481.D	1	05/20/25 09:45	05/21/25 12:14	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	370	ug/Kg
108-95-2	Phenol	24.9	U	24.9	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.3	U	27.3	190	ug/Kg
95-57-8	2-Chlorophenol	27.5	U	27.5	190	ug/Kg
95-48-7	2-Methylphenol	33.6	U	33.6	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	42.2	U	42.2	190	ug/Kg
98-86-2	Acetophenone	33.2	U	33.2	190	ug/Kg
65794-96-9	3+4-Methylphenols	46.2	U	46.2	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	53.3	U	53.3	90.0	ug/Kg
67-72-1	Hexachloroethane	19.8	U	19.8	190	ug/Kg
98-95-3	Nitrobenzene	20.6	U	20.6	190	ug/Kg
78-59-1	Isophorone	36.9	U	36.9	190	ug/Kg
88-75-5	2-Nitrophenol	65.5	U	65.5	190	ug/Kg
105-67-9	2,4-Dimethylphenol	72.9	U	72.9	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.7	U	34.7	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.8	U	31.8	190	ug/Kg
91-20-3	Naphthalene	25.5	U	25.5	190	ug/Kg
106-47-8	4-Chloroaniline	39.8	U	39.8	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.5	U	28.5	190	ug/Kg
105-60-2	Caprolactam	58.6	U	58.6	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.3	U	32.3	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.8	U	28.8	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.3	U	22.3	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.7	U	32.7	190	ug/Kg
92-52-4	1,1-Biphenyl	24.5	U	24.5	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.3	U	25.3	190	ug/Kg
88-74-4	2-Nitroaniline	54.1	U	54.1	190	ug/Kg
131-11-3	Dimethylphthalate	30.5	U	30.5	190	ug/Kg

Raw Data: **BF142481.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.7
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
BF142481.D	1	05/20/25 09:45	05/21/25 12:14	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.5	U	32.5	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.8	U	37.8	190	ug/Kg
99-09-2	3-Nitroaniline	51.8	U	51.8	190	ug/Kg
83-32-9	Acenaphthene	24.0	U	24.0	190	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	370	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	370	ug/Kg
132-64-9	Dibenzofuran	25.5	U	25.5	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	56.4	U	56.4	190	ug/Kg
84-66-2	Diethylphthalate	31.8	U	31.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.0	U	30.0	190	ug/Kg
86-73-7	Fluorene	28.5	U	28.5	190	ug/Kg
100-01-6	4-Nitroaniline	72.2	U	72.2	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.0	U	37.0	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.3	U	31.3	190	ug/Kg
118-74-1	Hexachlorobenzene	28.5	U	28.5	190	ug/Kg
1912-24-9	Atrazine	38.3	U	38.3	190	ug/Kg
87-86-5	Pentachlorophenol	57.7	U	57.7	370	ug/Kg
85-01-8	Phenanthrene	23.5	U	23.5	190	ug/Kg
120-12-7	Anthracene	37.5	U	37.5	190	ug/Kg
86-74-8	Carbazole	35.1	U	35.1	190	ug/Kg
84-74-2	Di-n-butylphthalate	53.9	U	53.9	190	ug/Kg
206-44-0	Fluoranthene	33.8	U	33.8	190	ug/Kg
129-00-0	Pyrene	40.5	U	40.5	190	ug/Kg
85-68-7	Butylbenzylphthalate	80.3	U	80.3	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	41.3	U	41.3	370	ug/Kg
56-55-3	Benzo(a)anthracene	25.9	U	25.9	190	ug/Kg
218-01-9	Chrysene	22.4	U	22.4	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	66.6	U	66.6	190	ug/Kg
117-84-0	Di-n-octyl phthalate	97.7	U	97.7	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.4	U	21.4	190	ug/Kg

Raw Data: **BF142481.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.7
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
BF142481.D	1	05/20/25 09:45	05/21/25 12:14	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.2	U	25.2	190	ug/Kg
50-32-8	Benzo(a)pyrene	33.2	U	33.2	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.7	U	32.7	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.8	U	30.8	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	28.9	U	28.9	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.8	U	28.8	190	ug/Kg
123-91-1	1,4-Dioxane	50.9	U	50.9	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.8	U	30.8	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	86.5		18 - 112	58%	SPK: 150
13127-88-3	Phenol-d6	89.6		15 - 107	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	53.5		18 - 107	54%	SPK: 100
321-60-8	2-Fluorobiphenyl	50.0		20 - 109	50%	SPK: 100
118-79-6	2,4,6-Tribromophenol	92.4		10 - 116	62%	SPK: 150
1718-51-0	Terphenyl-d14	38.1		10 - 105	38%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	88100	6.898			
1146-65-2	Naphthalene-d8	330000	8.181			
15067-26-2	Acenaphthene-d10	169000	9.939			
1517-22-2	Phenanthrene-d10	294000	11.422			
1719-03-5	Chrysene-d12	264000	14.063			
1520-96-3	Perylene-d12	239000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	270	AB		5.10	ug/Kg
000119-61-9	Benzophenone	180	J		10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	380	J		11.9	ug/Kg
000057-11-4	Octadecanoic acid	89.3	J		12.7	ug/Kg
1010351-87-0	Heptadecyl trifluoroacetate	140	J		13.9	ug/Kg

Raw Data: **BF142481.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.7
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
BF142481.D	1	05/20/25 09:45	05/21/25 12:14	PB168083

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\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

Quant Time: May 21 12:42:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

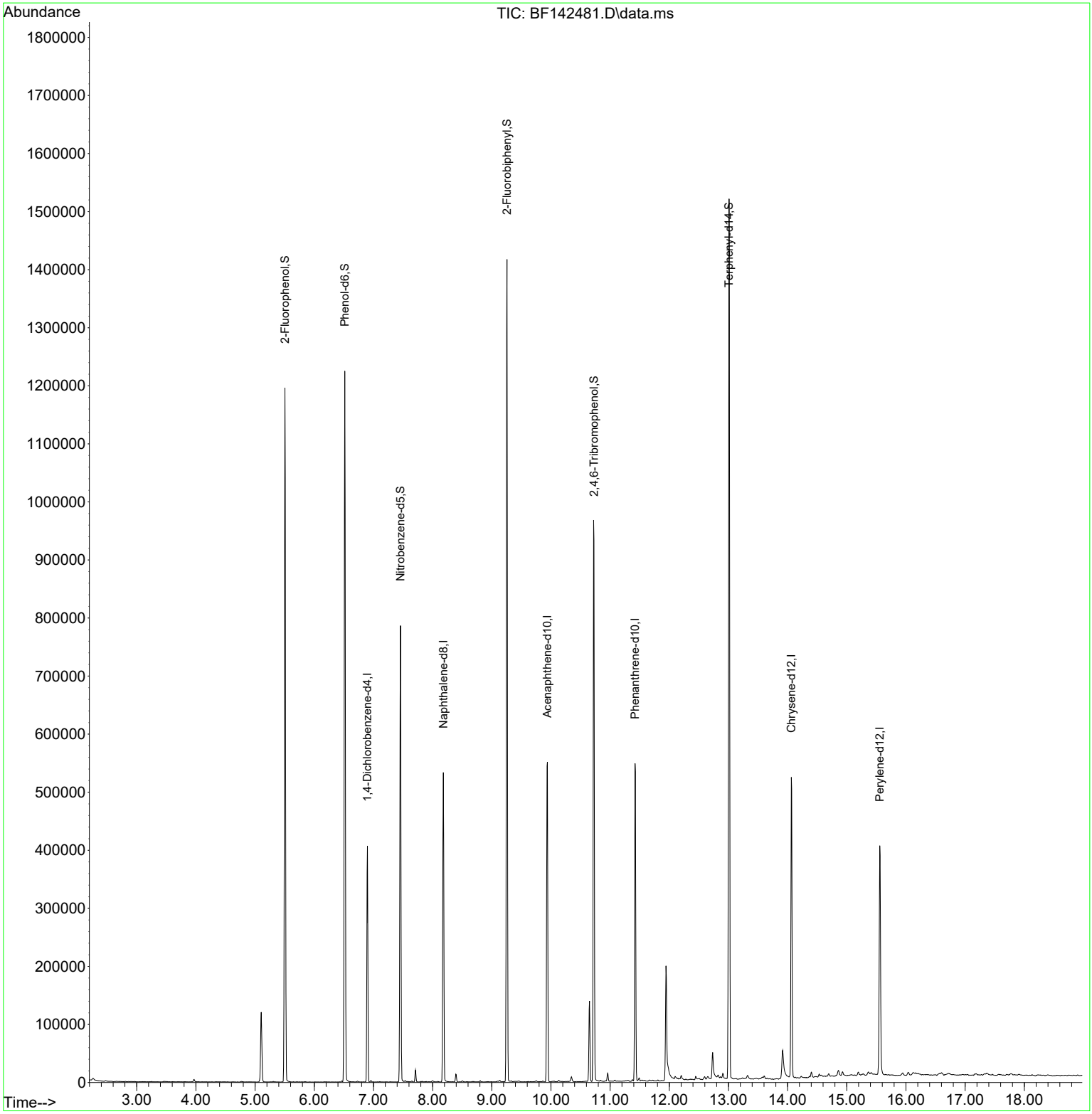
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	88091	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	330115	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	169428	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	293973	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	263519	20.000	ng	-0.01
86) Perylene-d12	15.557	264	238889	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	452174	86.479	ng	-0.01
7) Phenol-d6	6.516	99	564083	89.621	ng	-0.02
23) Nitrobenzene-d5	7.457	82	323927	53.507	ng	-0.02
42) 2,4,6-Tribromophenol	10.727	330	173761	92.405	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	630689	49.950	ng	-0.01
79) Terphenyl-d14	13.010	244	734064	38.067	ng	0.00
Target Compounds						Qvalue

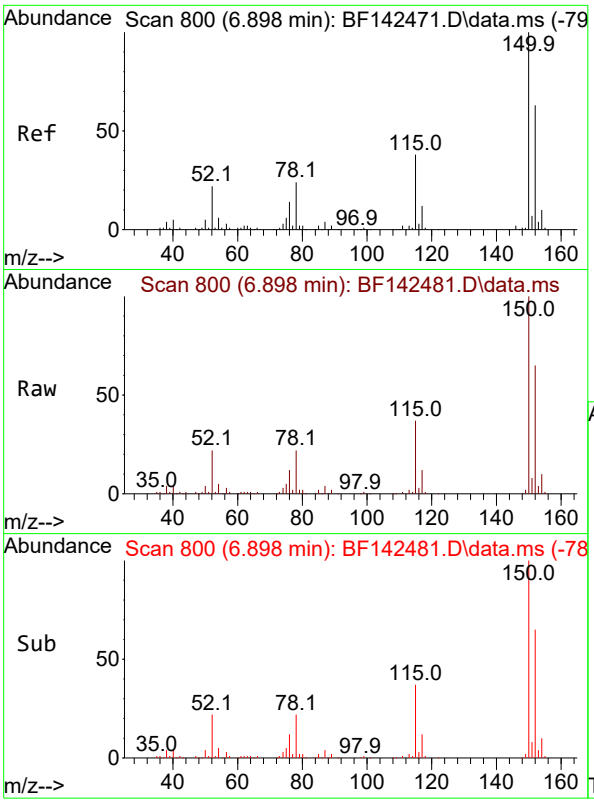
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

Quant Time: May 21 12:42:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



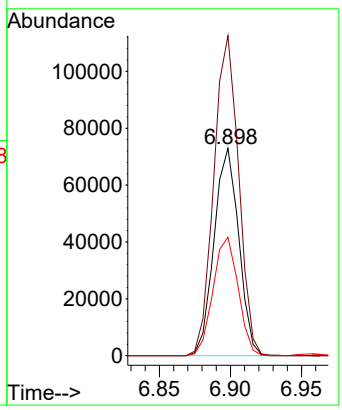


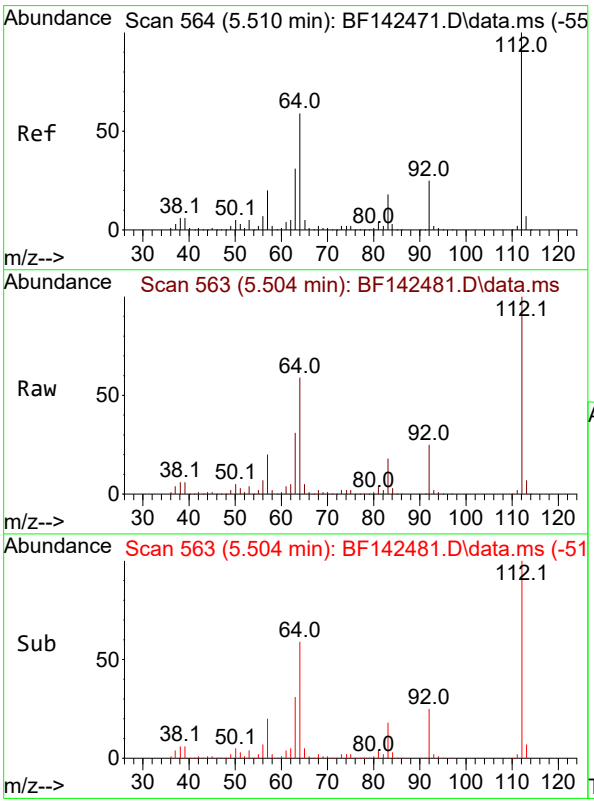
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Instrument :
BNA_F
ClientSampleId :
TP-7

Tgt Ion:152 Resp: 88091

Ion	Ratio	Lower	Upper
152	100		
150	154.4	128.2	192.4
115	57.1	48.3	72.5

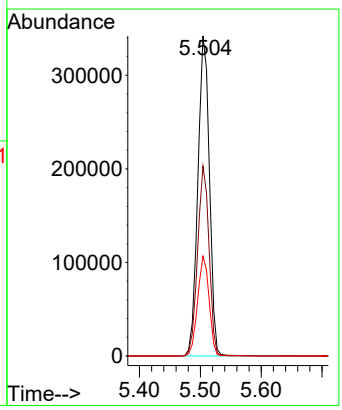


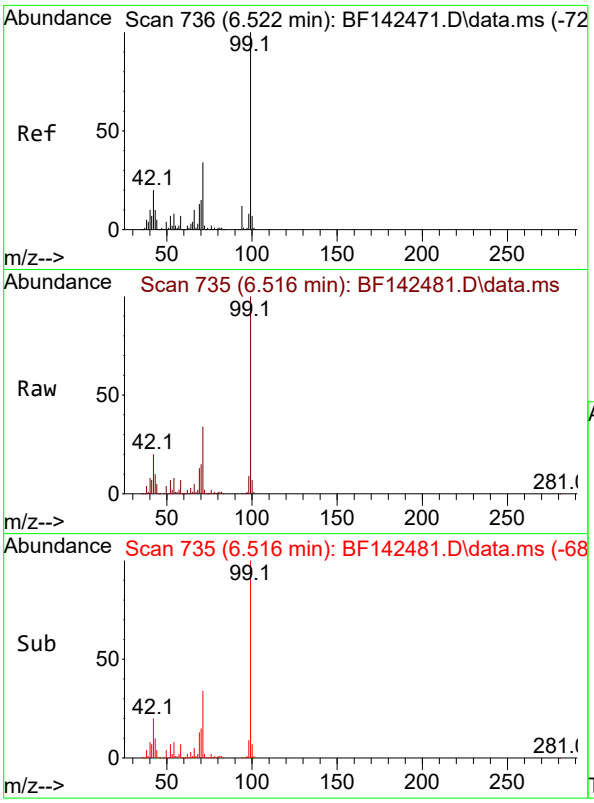


#5
2-Fluorophenol
Concen: 86.479 ng
RT: 5.504 min Scan# 563
Delta R.T. -0.012 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Tgt Ion:112 Resp: 452174

Ion	Ratio	Lower	Upper
112	100		
64	59.3	47.5	71.3
63	31.1	24.9	37.3



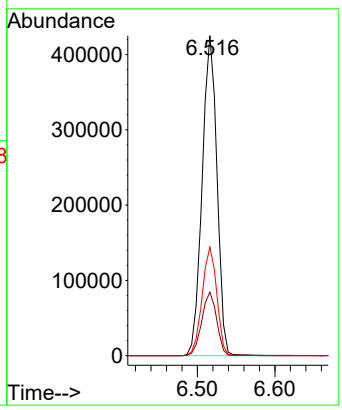


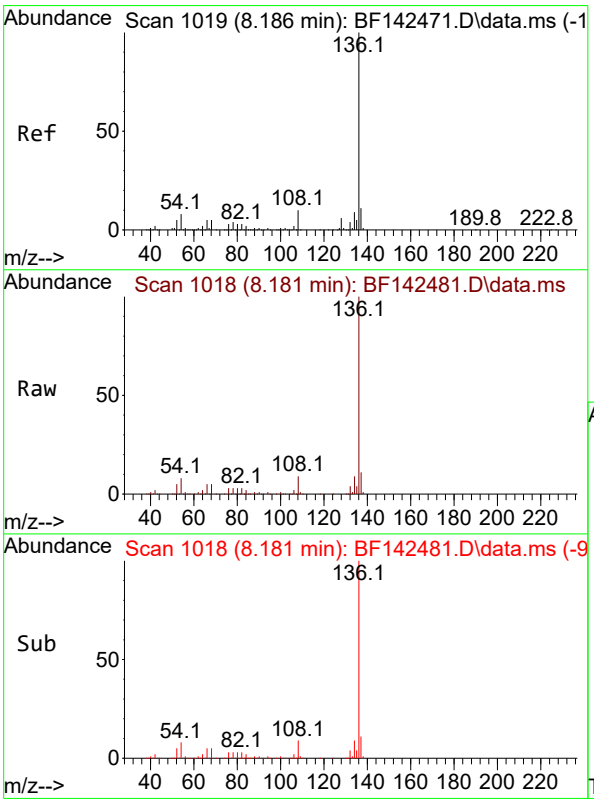
#7
Phenol-d6
Concen: 89.621 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Instrument :
BNA_F
ClientSampleId :
TP-7

Tgt Ion: 99 Resp: 564083

Ion	Ratio	Lower	Upper
99	100		
42	19.9	16.2	24.2
71	33.9	27.3	40.9

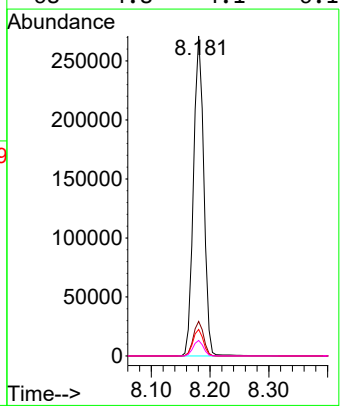


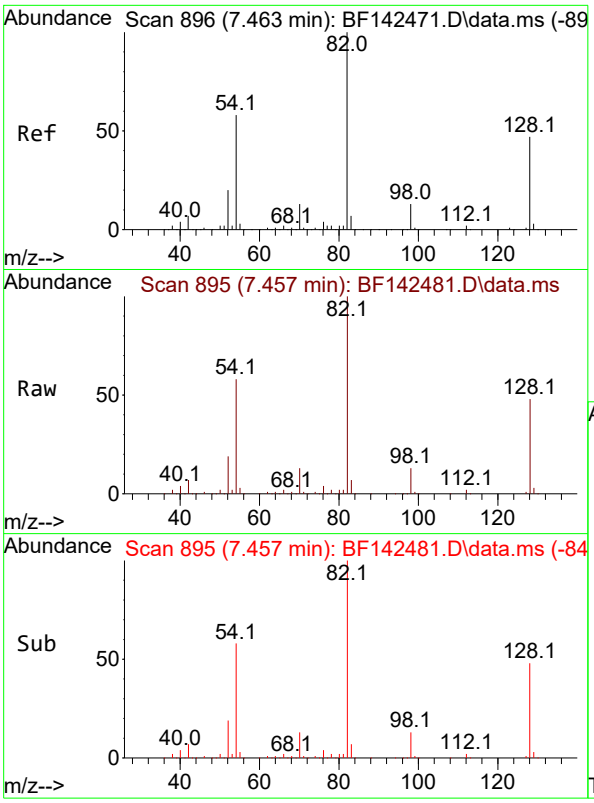


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Tgt Ion:136 Resp: 330115

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.3	6.6	10.0
68	4.8	4.1	6.1



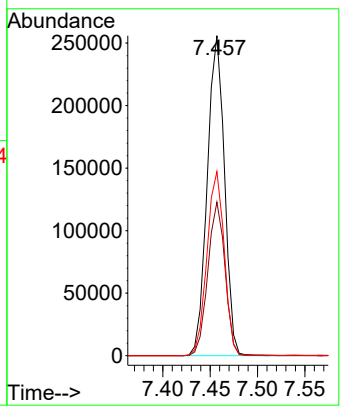


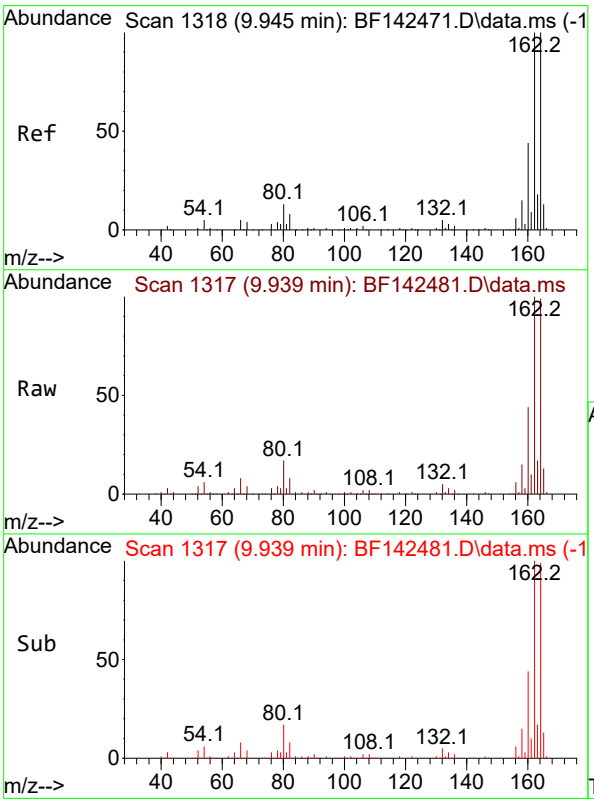
#23
Nitrobenzene-d5
Concen: 53.507 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Instrument :
BNA_F
ClientSampleId :
TP-7

Tgt Ion: 82 Resp: 323927

Ion	Ratio	Lower	Upper
82	100		
128	48.0	37.4	56.2
54	57.5	46.6	70.0

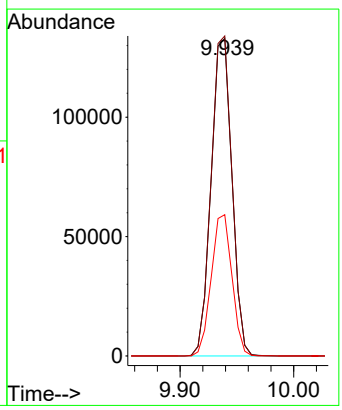


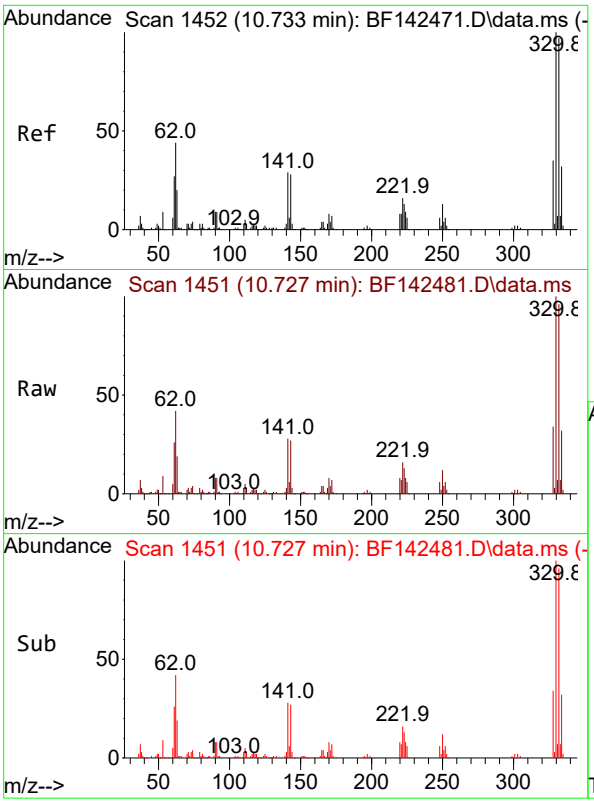


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Tgt Ion:164 Resp: 169428

Ion	Ratio	Lower	Upper
164	100		
162	100.8	80.2	120.4
160	44.5	35.6	53.4



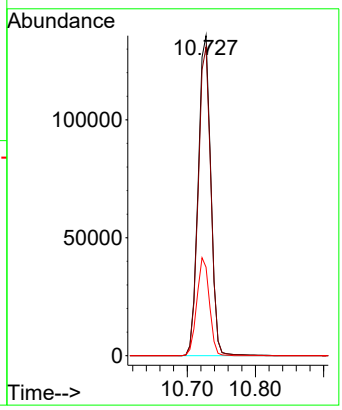


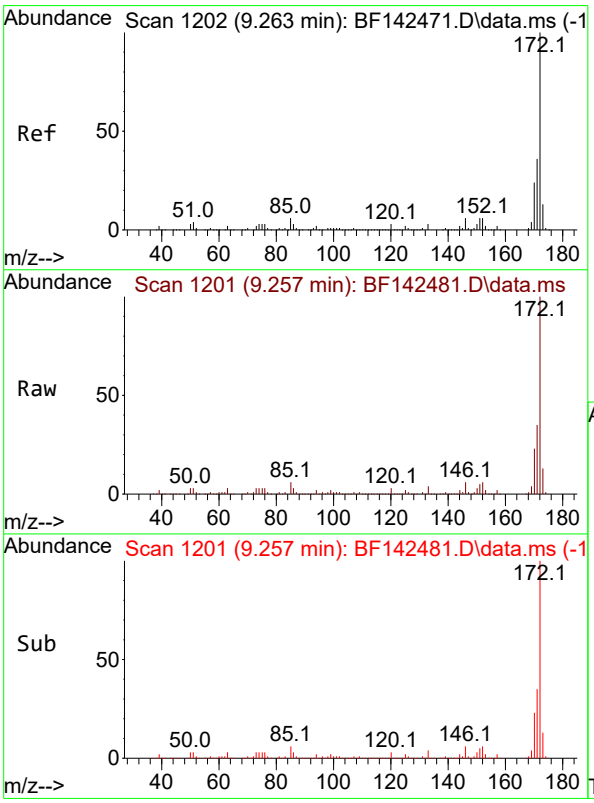
#42
2,4,6-Tribromophenol
Concen: 92.405 ng
RT: 10.727 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Instrument :
BNA_F
ClientSampleId :
TP-7

Tgt Ion:330 Resp: 173761

Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.6	116.4
141	30.3	24.6	36.8

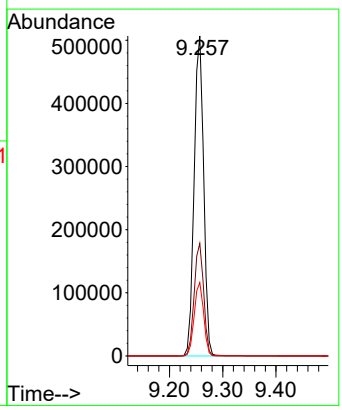


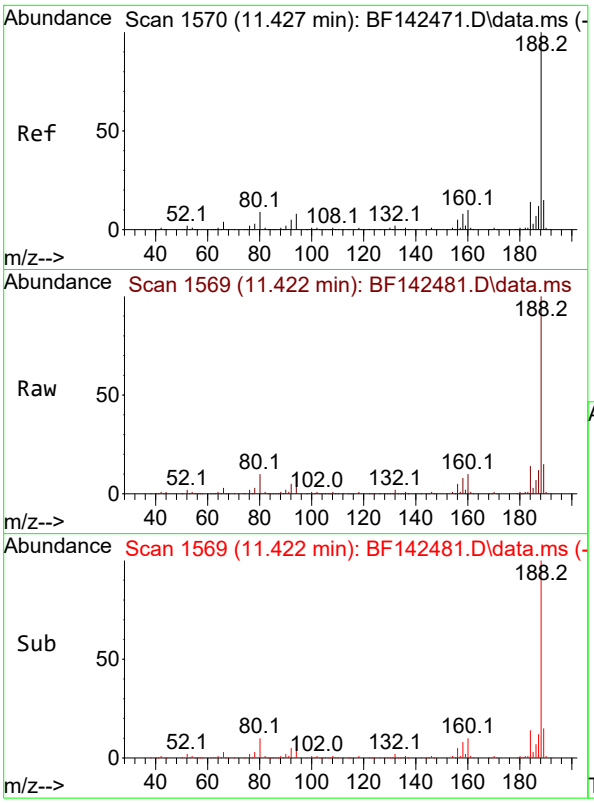


#45
2-Fluorobiphenyl
Concen: 49.950 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Tgt Ion:172 Resp: 630689

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.6	42.8
170	22.9	18.9	28.3



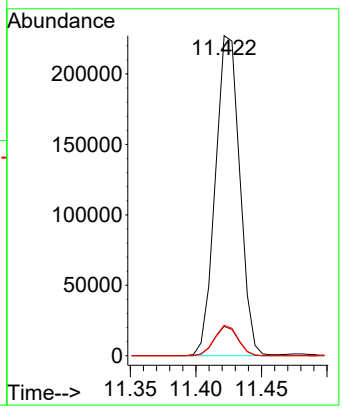


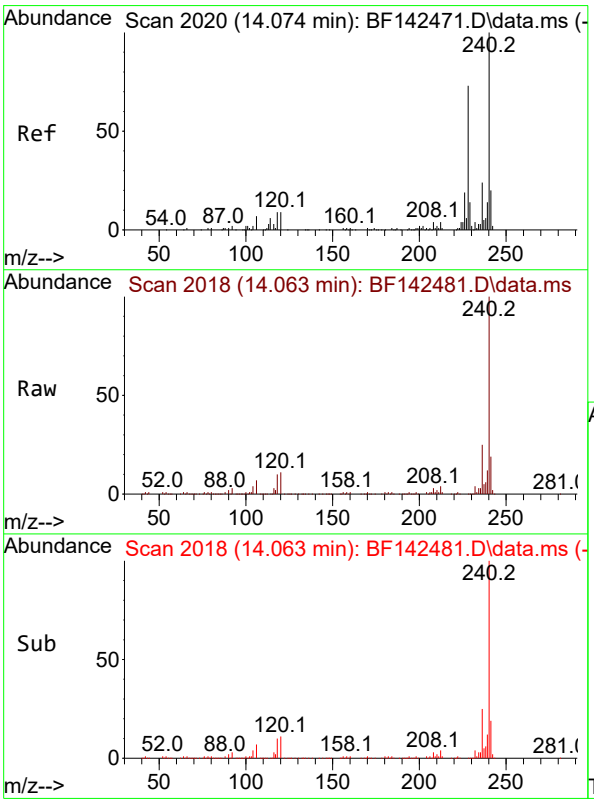
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Instrument :
BNA_F
ClientSampleId :
TP-7

Tgt Ion:188 Resp: 293973

Ion	Ratio	Lower	Upper
188	100		
94	9.2	6.6	10.0
80	9.5	7.4	11.0

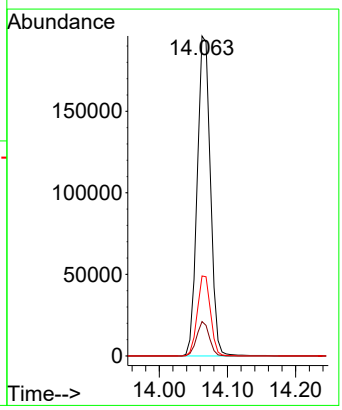


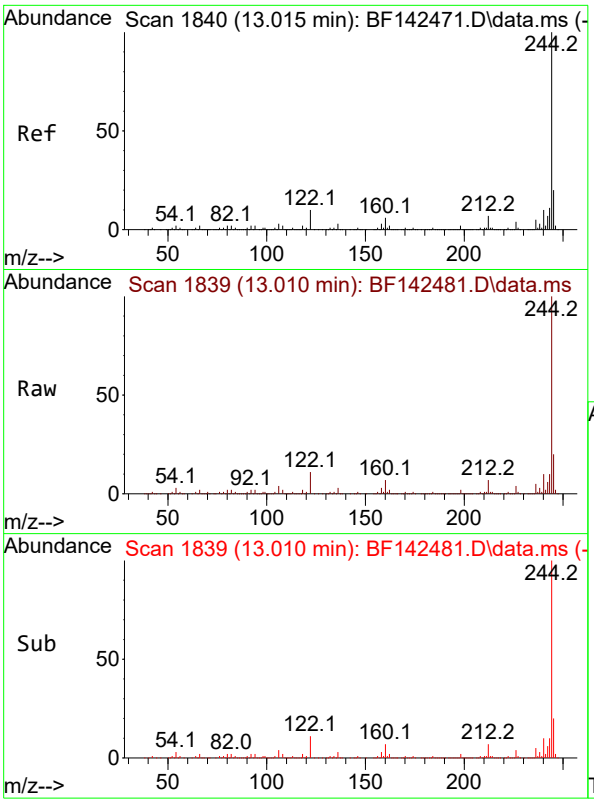


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Tgt Ion:240 Resp: 263519

Ion	Ratio	Lower	Upper
240	100		
120	10.8	7.5	11.3
236	25.0	19.6	29.4



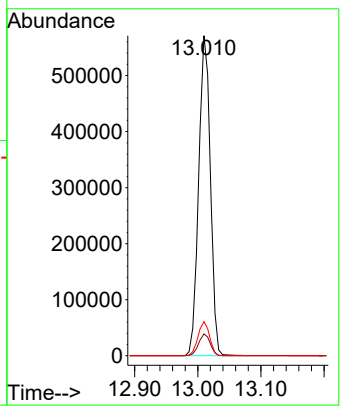


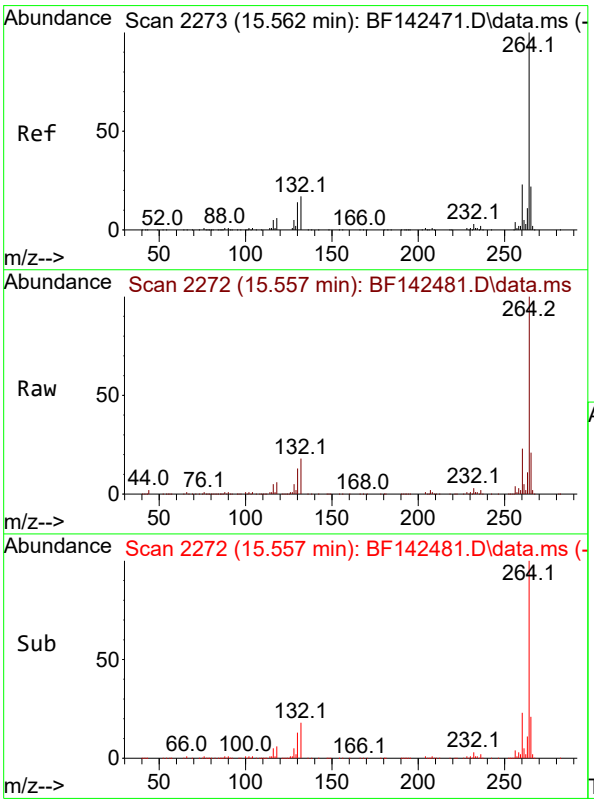
#79
Terphenyl-d14
Concen: 38.067 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Instrument :
BNA_F
ClientSampleId :
TP-7

Tgt Ion:244 Resp: 734064

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.3	7.9
122	10.7	8.2	12.2

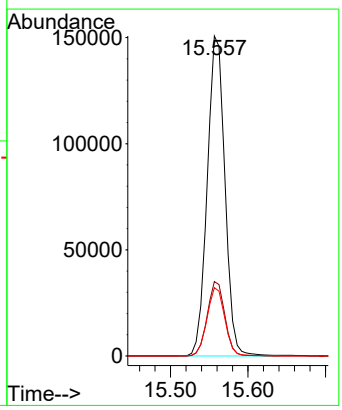




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Tgt Ion:264 Resp: 238889

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	21.4	17.7	26.5



Sample Results: **BF142481.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142481.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.104	486	495	503	rBV	120451	176991	9.14%	1.269%
2	5.504	557	563	568	rBV	1195118	1563966	80.81%	11.211%
3	6.516	729	735	740	rBV	1224037	1633475	84.40%	11.709%
4	6.898	795	800	805	rBV	406273	494665	25.56%	3.546%
5	7.457	889	895	900	rBV	785864	990737	51.19%	7.102%
6	7.710	934	938	943	rBV	20428	24233	1.25%	0.174%
7	8.181	1013	1018	1023	rBV	532892	643550	33.25%	4.613%
8	9.257	1195	1201	1206	rBV	1416383	1763864	91.14%	12.644%
9	9.939	1311	1317	1322	rBV	550338	703973	36.37%	5.046%
10	10.651	1432	1438	1445	rVB	138440	171874	8.88%	1.232%
11	10.722	1445	1450	1466	rBV	966898	1264258	65.32%	9.063%
12	11.422	1564	1569	1575	rBV	546570	701153	36.23%	5.026%
13	11.945	1652	1658	1681	rBV2	197554	352103	18.19%	2.524%
14	12.733	1787	1792	1804	rBV	45077	83476	4.31%	0.598%
15	13.010	1833	1839	1844	rBV	1515178	1935391	100.00%	13.874%
16	13.915	1986	1993	2011	rBV	48952	131856	6.81%	0.945%
17	14.063	2013	2018	2027	rVB	517600	687401	35.52%	4.928%
18	15.557	2266	2272	2285	rVB	394520	627239	32.41%	4.496%

Sum of corrected areas: 13950205

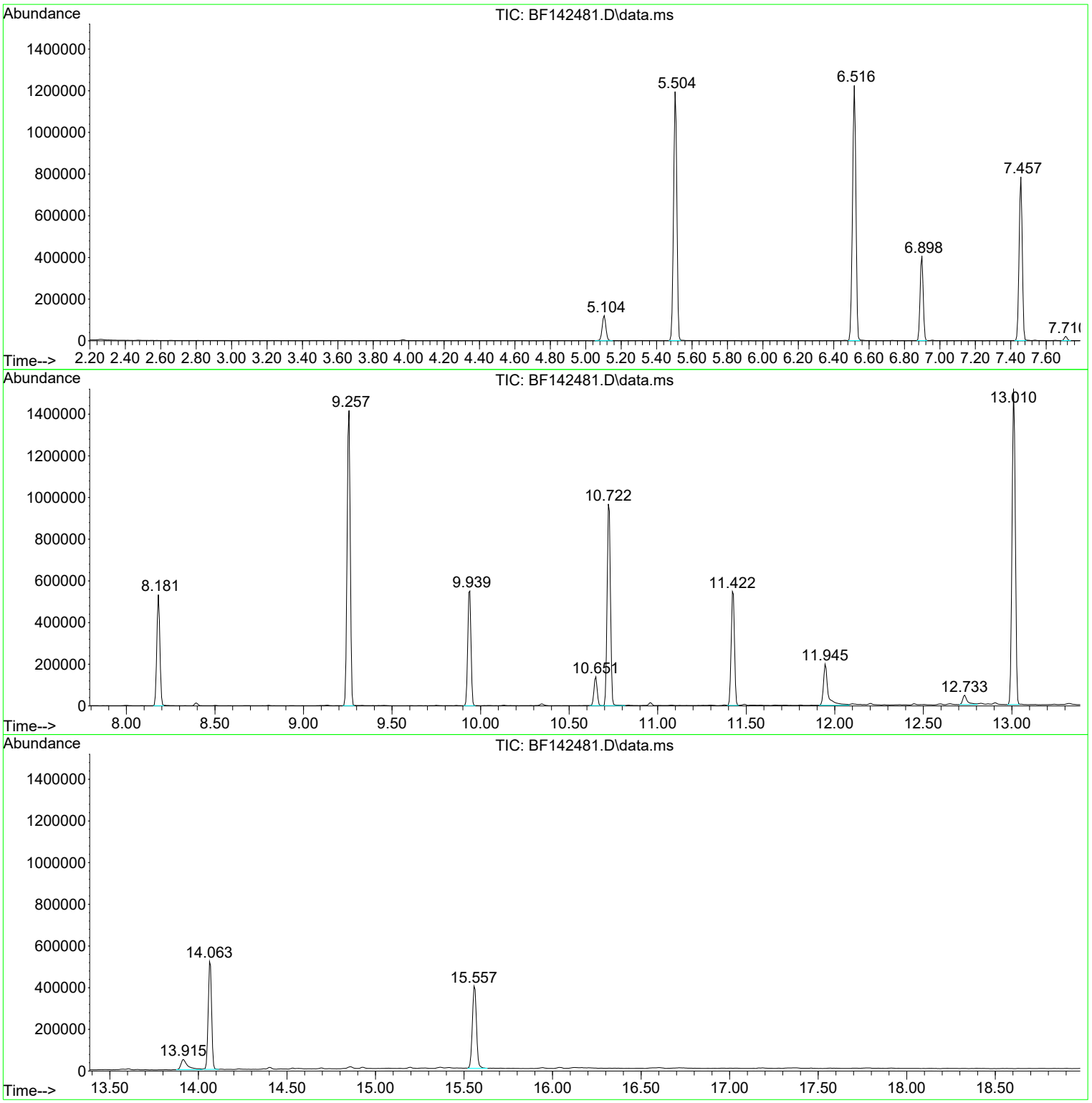
Sample Results: **BF142481.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.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\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

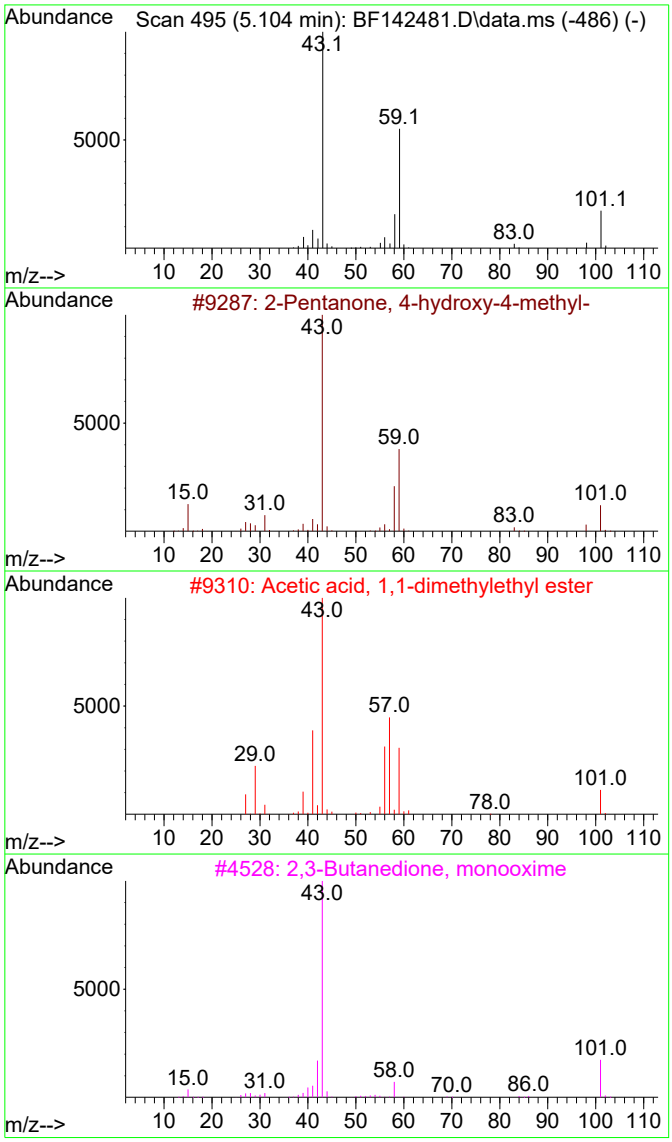
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

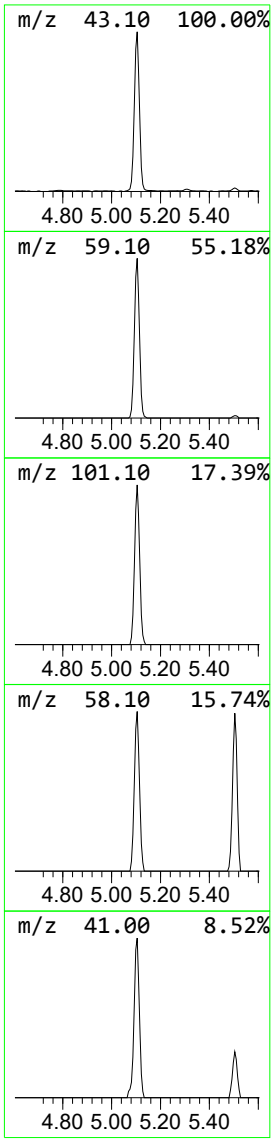
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.104	7.16 ng	176991	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	23
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

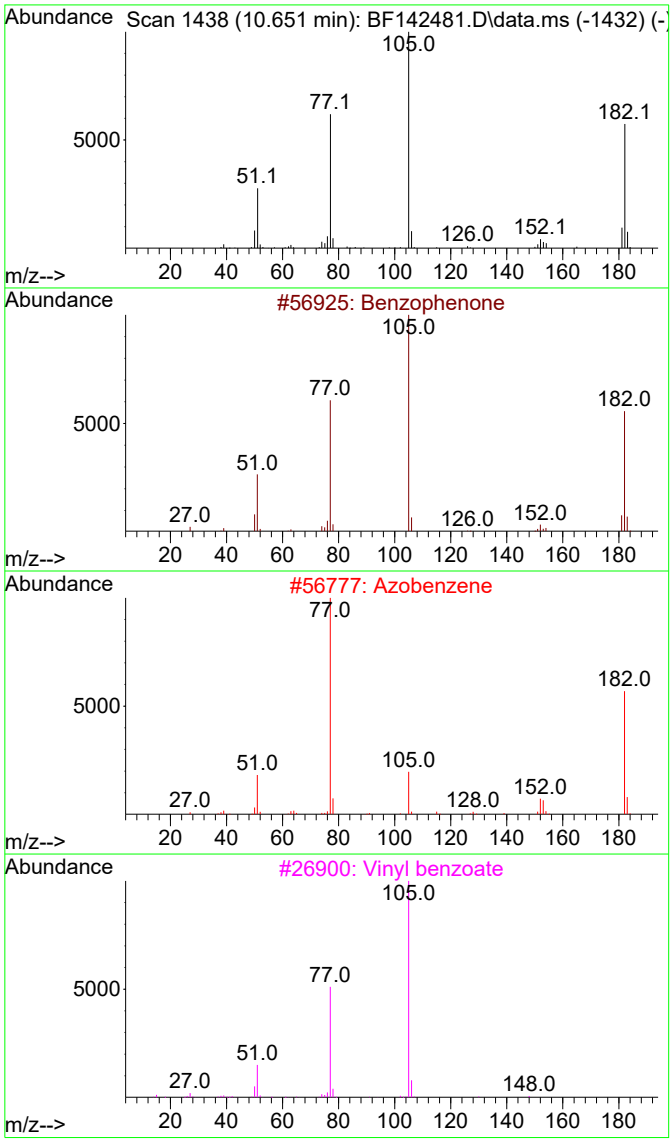
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

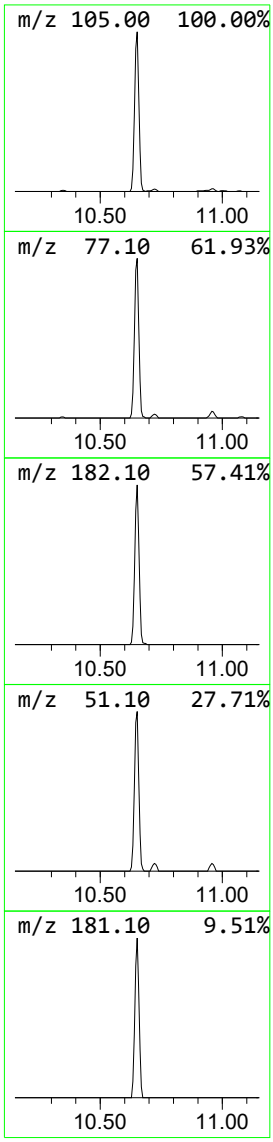
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	4.88 ng	171874	Acenaphthene-d10	9.939

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	Vinyl benzoate	148	C9H8O2	000769-78-8	47
4	Benzoic acid, phenyl ester	198	C13H10O2	000093-99-2	47
5	2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	47





Sample Results: **BF142481.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

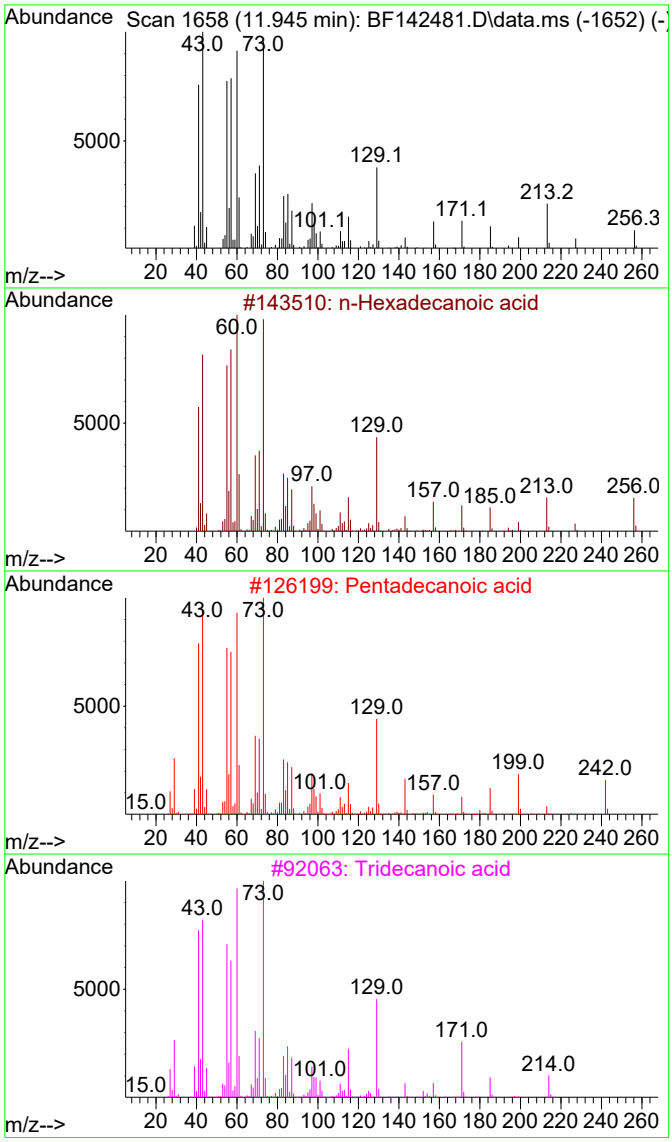
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

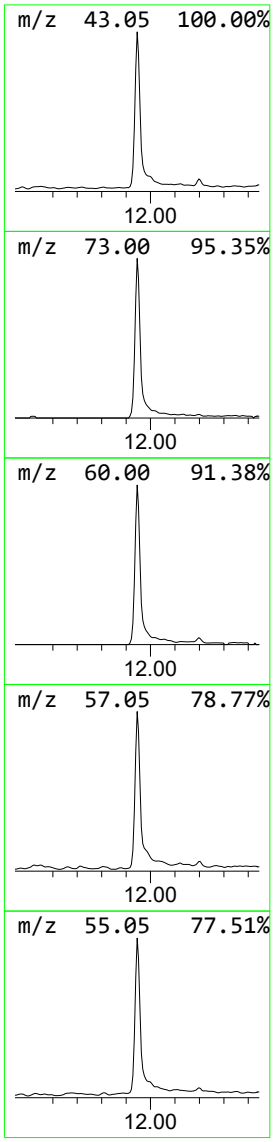
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	10.04 ng	352103	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
3	Tridecanoic acid	214	C13H26O2	000638-53-9	90
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5	Undecanoic acid	186	C11H22O2	000112-37-8	68





Sample Results: **BF142481.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

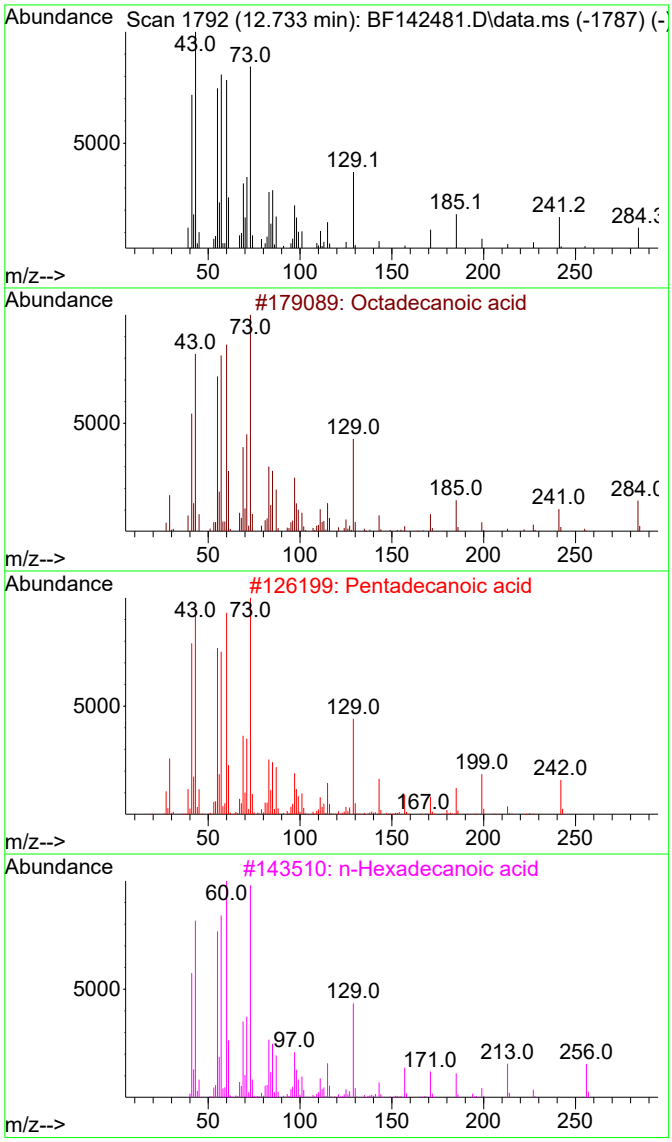
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

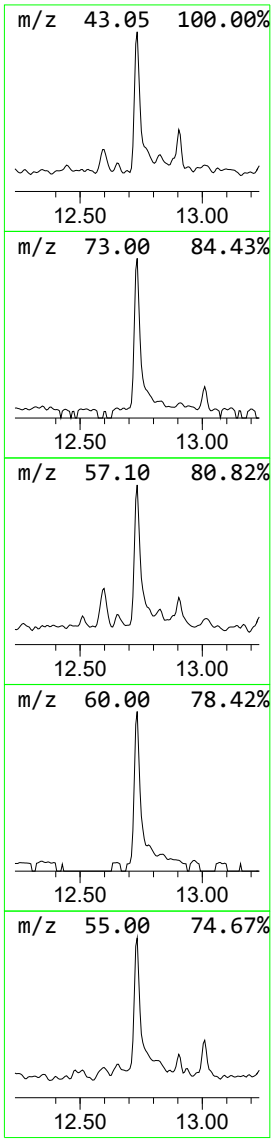
****

Peak Number 4 Octadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.733	2.38 ng	83476	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	87
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5	Dodecanoic acid	200	C12H24O2	000143-07-7	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

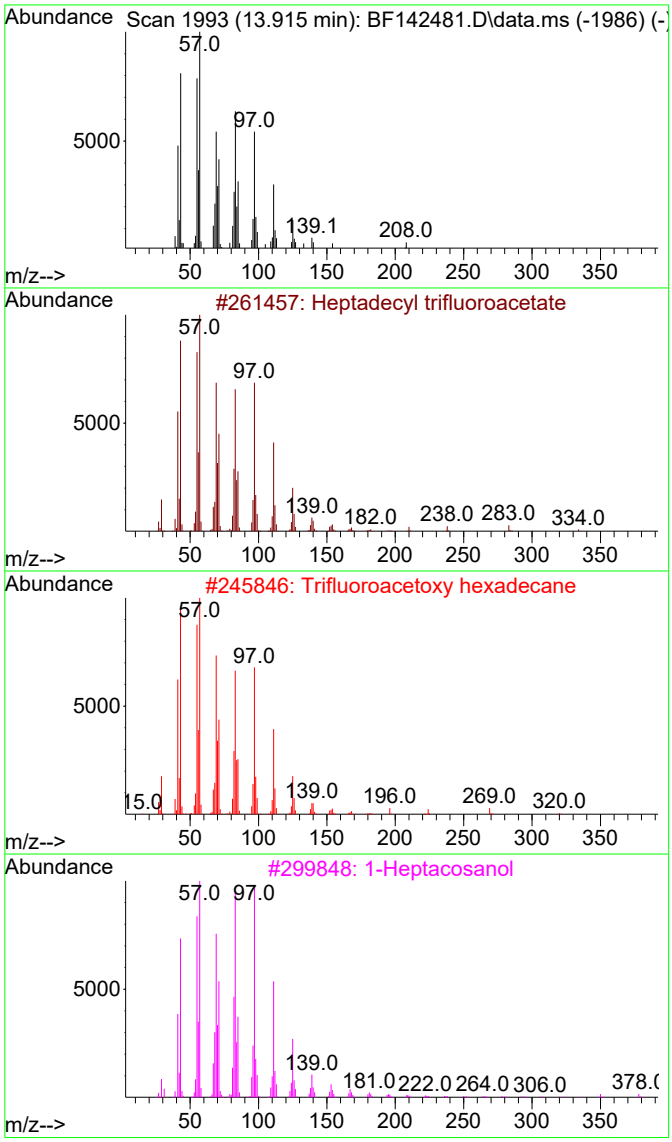
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

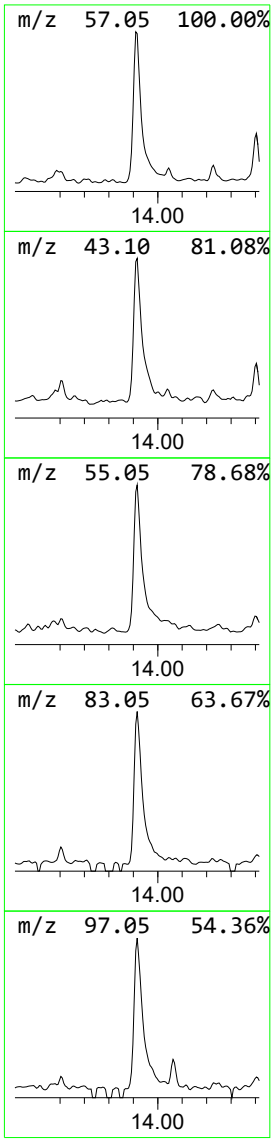
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Heptadecyl trifluoroacetate Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.916	3.84 ng	131856	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	94
2	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	93
3	1-Heptacosanol	396	C27H56O	002004-39-9	91
4	Tricosyl trifluoroacetate	436	C25H47F3O2	1000351-75-1	91
5	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	91





Sample Results: **BF142481.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.104	7.2	ng	176991	1	6.898	494665	20.0
Benzophenone	10.651	4.9	ng	171874	3	9.939	703973	20.0
n-Hexadecanoic ...	11.945	10.0	ng	352103	4	11.422	701153	20.0
Octadecanoic acid	12.733	2.4	ng	83476	4	11.422	701153	20.0
Heptadecyl trif...	13.916	3.8	ng	131856	5	14.063	687401	20.0

Raw Data: **BF142514.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87
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
BF142514.D	1	05/20/25 09:45	05/22/25 17:03	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	380	ug/Kg
108-95-2	Phenol	25.4	U	25.4	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.9	U	27.9	200	ug/Kg
95-57-8	2-Chlorophenol	28.0	U	28.0	200	ug/Kg
95-48-7	2-Methylphenol	34.3	U	34.3	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.1	U	43.1	200	ug/Kg
98-86-2	Acetophenone	33.9	U	33.9	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.2	U	47.2	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	54.4	U	54.4	91.9	ug/Kg
67-72-1	Hexachloroethane	20.2	U	20.2	200	ug/Kg
98-95-3	Nitrobenzene	21.0	U	21.0	200	ug/Kg
78-59-1	Isophorone	37.7	U	37.7	200	ug/Kg
88-75-5	2-Nitrophenol	66.9	U	66.9	200	ug/Kg
105-67-9	2,4-Dimethylphenol	74.4	U	74.4	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.4	U	35.4	200	ug/Kg
120-83-2	2,4-Dichlorophenol	32.5	U	32.5	200	ug/Kg
91-20-3	Naphthalene	26.1	U	26.1	200	ug/Kg
106-47-8	4-Chloroaniline	40.7	U	40.7	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.1	U	29.1	200	ug/Kg
105-60-2	Caprolactam	59.8	U	59.8	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.0	U	33.0	200	ug/Kg
91-57-6	2-Methylnaphthalene	29.4	U	29.4	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.7	U	22.7	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.4	U	33.4	200	ug/Kg
92-52-4	1,1-Biphenyl	25.0	U	25.0	200	ug/Kg
91-58-7	2-Chloronaphthalene	25.8	U	25.8	200	ug/Kg
88-74-4	2-Nitroaniline	55.3	U	55.3	200	ug/Kg
131-11-3	Dimethylphthalate	31.1	U	31.1	200	ug/Kg

Raw Data: **BF142514.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87
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
BF142514.D	1	05/20/25 09:45	05/22/25 17:03	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.2	U	33.2	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.6	U	38.6	200	ug/Kg
99-09-2	3-Nitroaniline	52.8	U	52.8	200	ug/Kg
83-32-9	Acenaphthene	24.5	U	24.5	200	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	26.1	U	26.1	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	57.5	U	57.5	200	ug/Kg
84-66-2	Diethylphthalate	32.5	U	32.5	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.7	U	30.7	200	ug/Kg
86-73-7	Fluorene	29.1	U	29.1	200	ug/Kg
100-01-6	4-Nitroaniline	73.7	U	73.7	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.8	U	37.8	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.9	U	31.9	200	ug/Kg
118-74-1	Hexachlorobenzene	29.1	U	29.1	200	ug/Kg
1912-24-9	Atrazine	39.1	U	39.1	200	ug/Kg
87-86-5	Pentachlorophenol	58.9	U	58.9	380	ug/Kg
85-01-8	Phenanthrene	24.0	U	24.0	200	ug/Kg
120-12-7	Anthracene	38.3	U	38.3	200	ug/Kg
86-74-8	Carbazole	35.8	U	35.8	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.0	U	55.0	200	ug/Kg
206-44-0	Fluoranthene	34.5	U	34.5	200	ug/Kg
129-00-0	Pyrene	41.4	U	41.4	200	ug/Kg
85-68-7	Butylbenzylphthalate	82.0	U	82.0	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.2	U	42.2	380	ug/Kg
56-55-3	Benzo(a)anthracene	26.4	U	26.4	200	ug/Kg
218-01-9	Chrysene	22.9	U	22.9	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	68.0	U	68.0	200	ug/Kg
117-84-0	Di-n-octyl phthalate	99.7	U	99.7	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.8	U	21.8	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87
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
BF142514.D	1	05/20/25 09:45	05/22/25 17:03	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.7	U	25.7	200	ug/Kg
50-32-8	Benzo(a)pyrene	33.9	U	33.9	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.4	U	33.4	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.5	U	31.5	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.5	U	29.5	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.4	U	29.4	200	ug/Kg
123-91-1	1,4-Dioxane	51.9	U	51.9	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.5	U	31.5	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	70.2		18 - 112	47%	SPK: 150
13127-88-3	Phenol-d6	72.2		15 - 107	48%	SPK: 150
4165-60-0	Nitrobenzene-d5	43.7		18 - 107	44%	SPK: 100
321-60-8	2-Fluorobiphenyl	42.0		20 - 109	42%	SPK: 100
118-79-6	2,4,6-Tribromophenol	69.0		10 - 116	46%	SPK: 150
1718-51-0	Terphenyl-d14	40.8		10 - 105	41%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	111000	6.898			
1146-65-2	Naphthalene-d8	403000	8.181			
15067-26-2	Acenaphthene-d10	196000	9.934			
1517-22-2	Phenanthrene-d10	331000	11.422			
1719-03-5	Chrysene-d12	212000	14.063			
1520-96-3	Perylene-d12	173000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	230	AB		5.11	ug/Kg
000119-61-9	Benzophenone	450	J		10.6	ug/Kg
000947-19-3	Methanone, (1-hydroxycyclohexyl)ph	84.2	J		11.0	ug/Kg
000057-10-3	n-Hexadecanoic acid	210	J		11.9	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	150	J		13.9	ug/Kg

Raw Data: **BF142514.D**

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87
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
BF142514.D	1	05/20/25 09:45	05/22/25 17:03	PB168083

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\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

Quant Time: May 23 01:22:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	111156	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	403247	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	196334	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	331001	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	212263	20.000	ng	-0.01
86) Perylene-d12	15.557	264	172640	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	462988	70.174	ng	0.00
7) Phenol-d6	6.516	99	573497	72.210	ng	-0.02
23) Nitrobenzene-d5	7.457	82	322818	43.653	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	150454	69.045	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	615030	42.035	ng	-0.02
79) Terphenyl-d14	13.010	244	634371	40.841	ng	0.00
Target Compounds						Qvalue

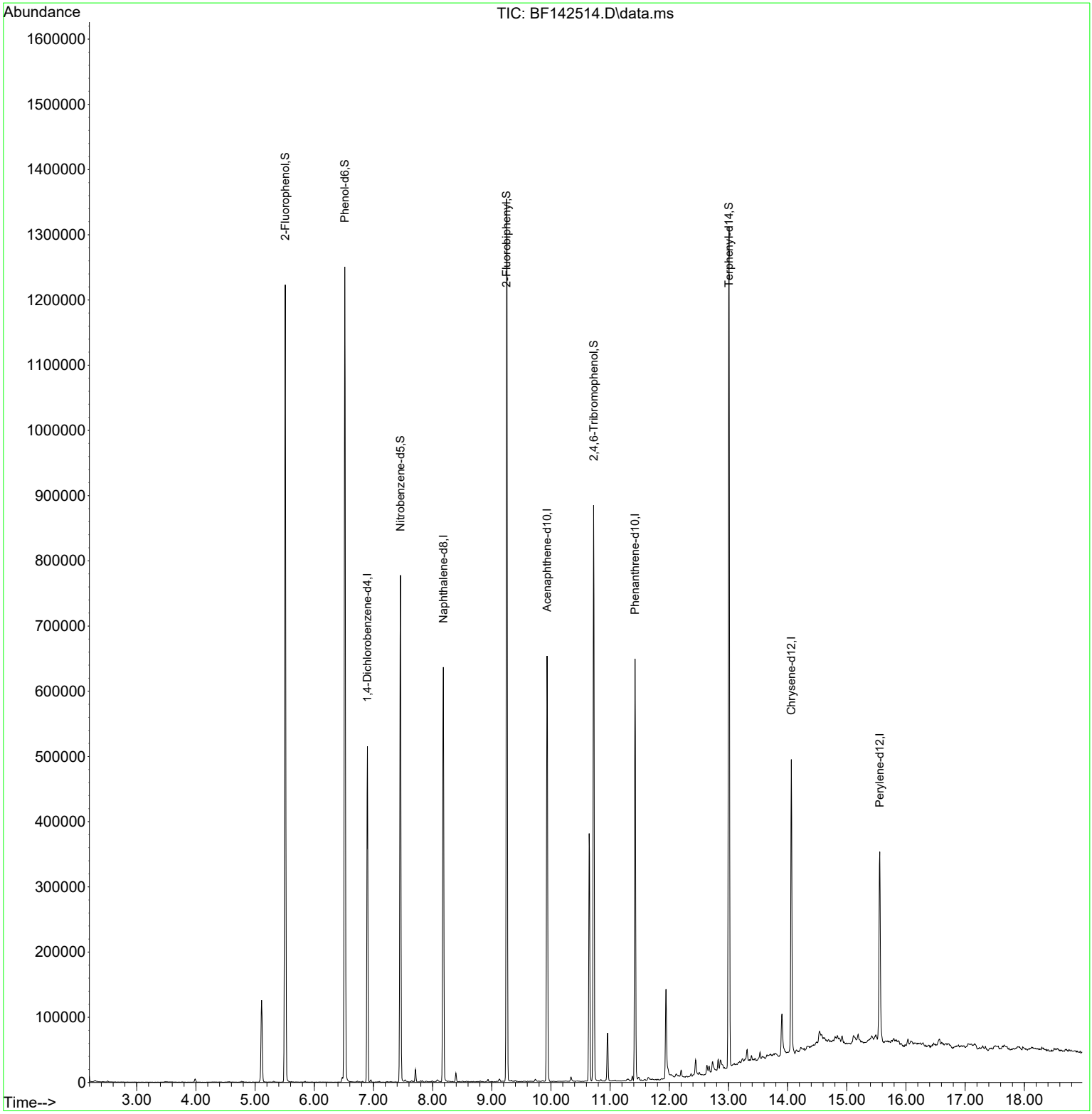
(#) = qualifier out of range (m) = manual integration (+) = signals summed

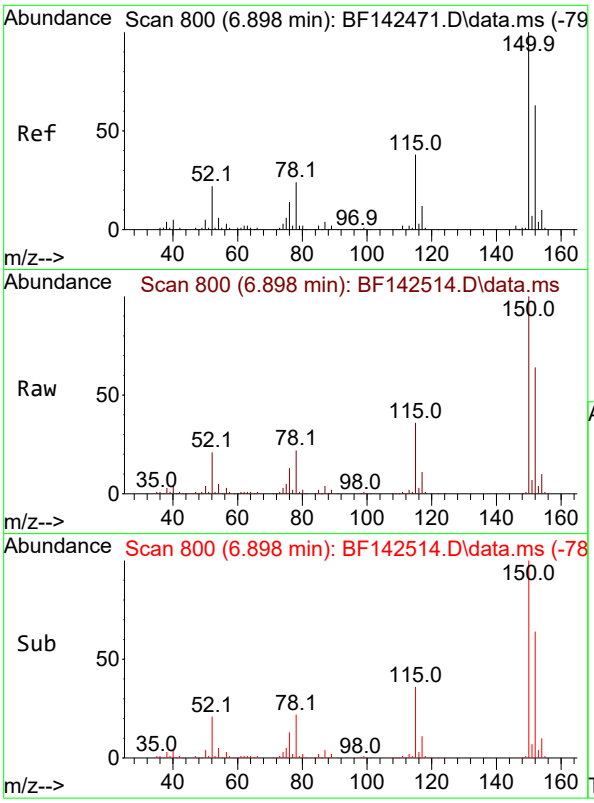
Sample Results: **BF142514.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

Quant Time: May 23 01:22:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



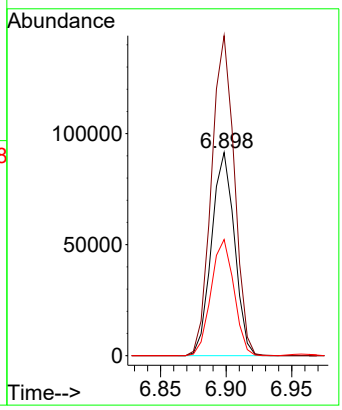


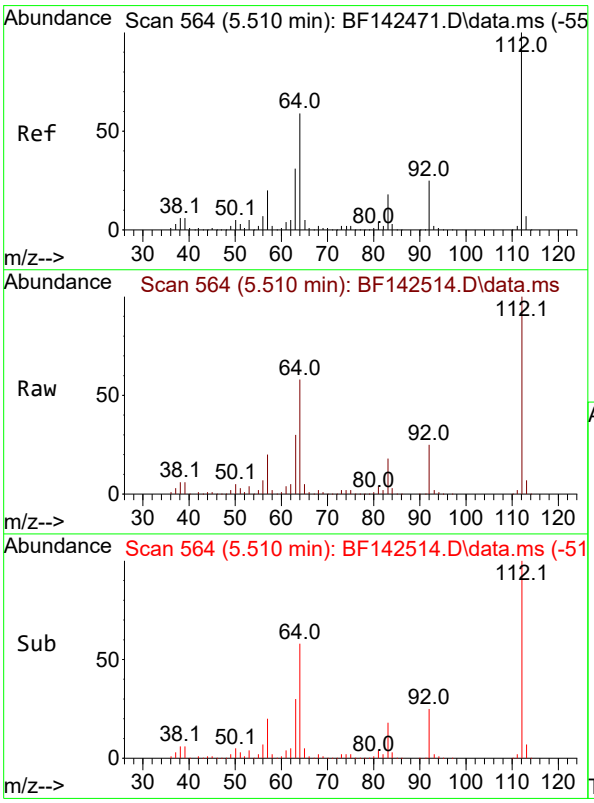
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Instrument :
BNA_F
ClientSampleId :
TP-15

Tgt Ion:152 Resp: 111156

Ion	Ratio	Lower	Upper
152	100		
150	157.5	128.2	192.4
115	57.1	48.3	72.5

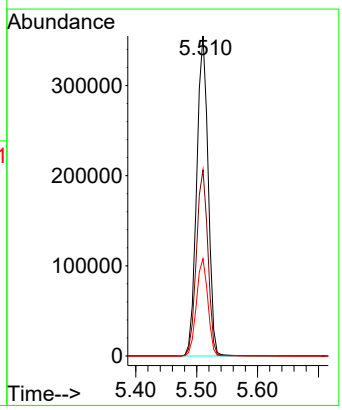


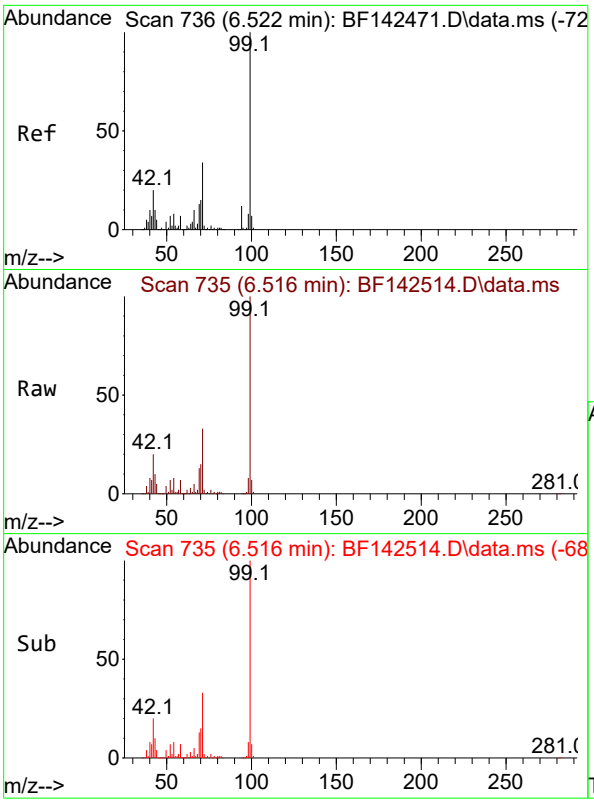


#5
2-Fluorophenol
Concen: 70.174 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Tgt Ion:112 Resp: 462988

Ion	Ratio	Lower	Upper
112	100		
64	58.1	47.5	71.3
63	30.4	24.9	37.3



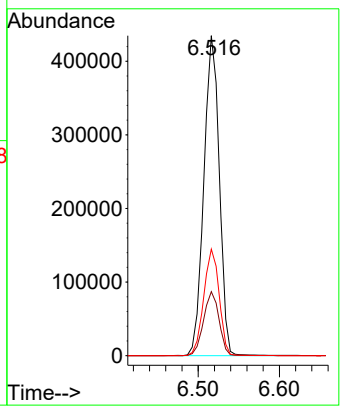


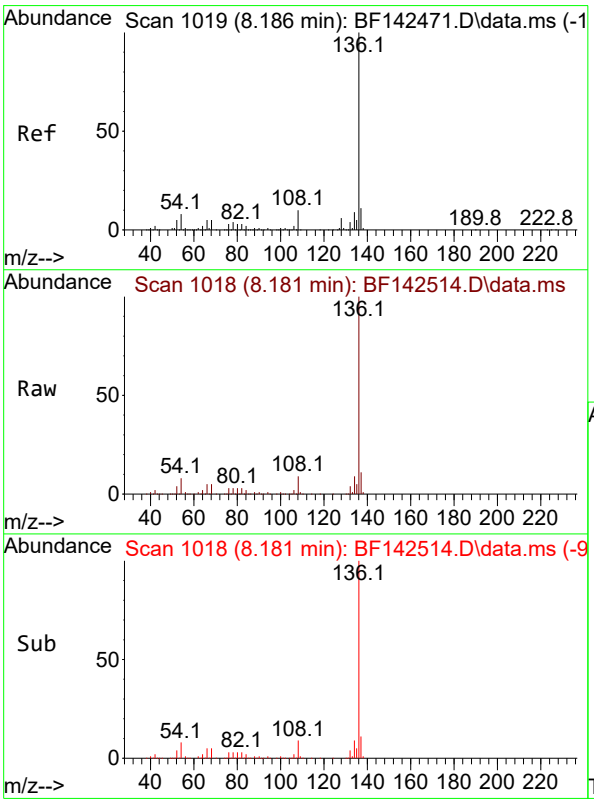
#7
Phenol-d6
Concen: 72.210 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Instrument :
BNA_F
ClientSampleId :
TP-15

Tgt Ion: 99 Resp: 573497

Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.2	24.2
71	33.3	27.3	40.9

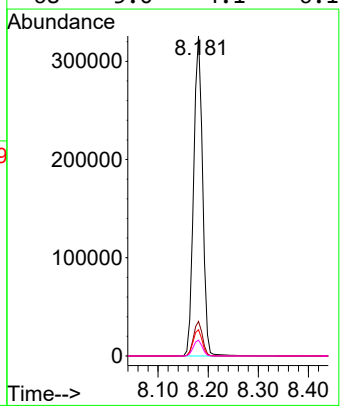


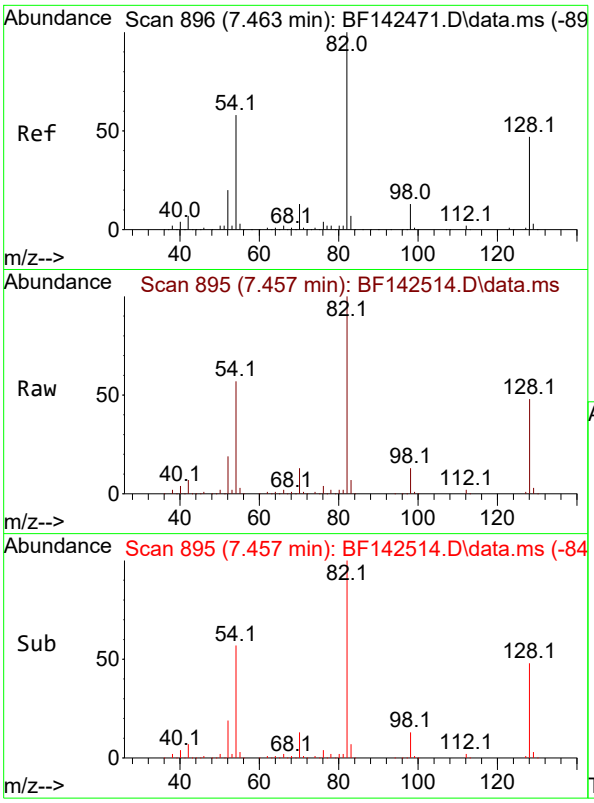


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Tgt Ion:136 Resp: 403247

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.2	6.6	10.0
68	5.0	4.1	6.1



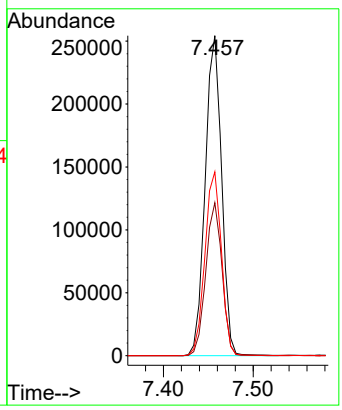


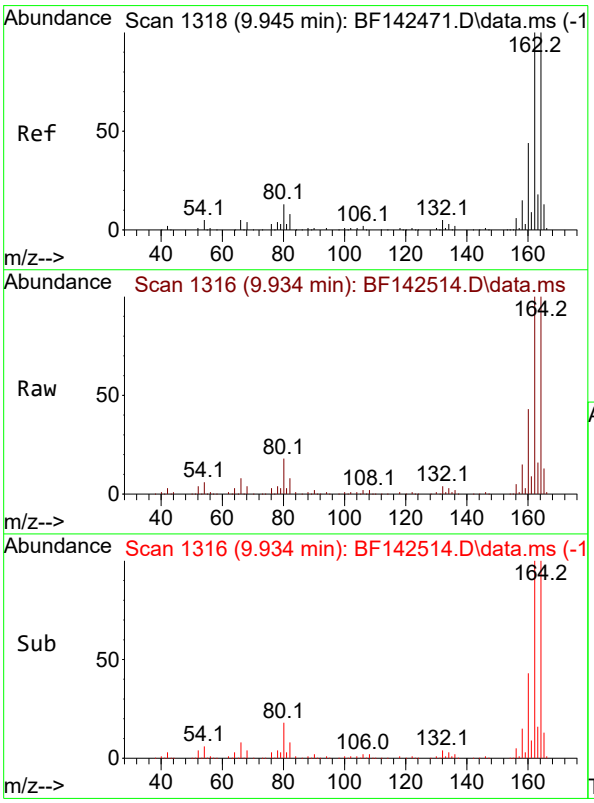
#23
Nitrobenzene-d5
Concen: 43.653 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Instrument :
BNA_F
ClientSampleId :
TP-15

Tgt Ion: 82 Resp: 322818

Ion	Ratio	Lower	Upper
82	100		
128	47.8	37.4	56.2
54	57.5	46.6	70.0

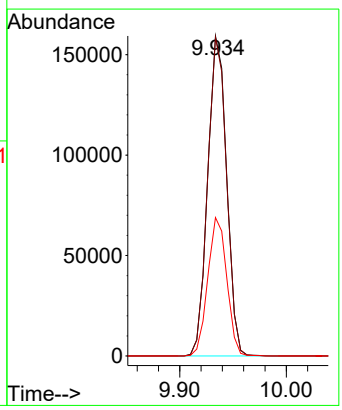


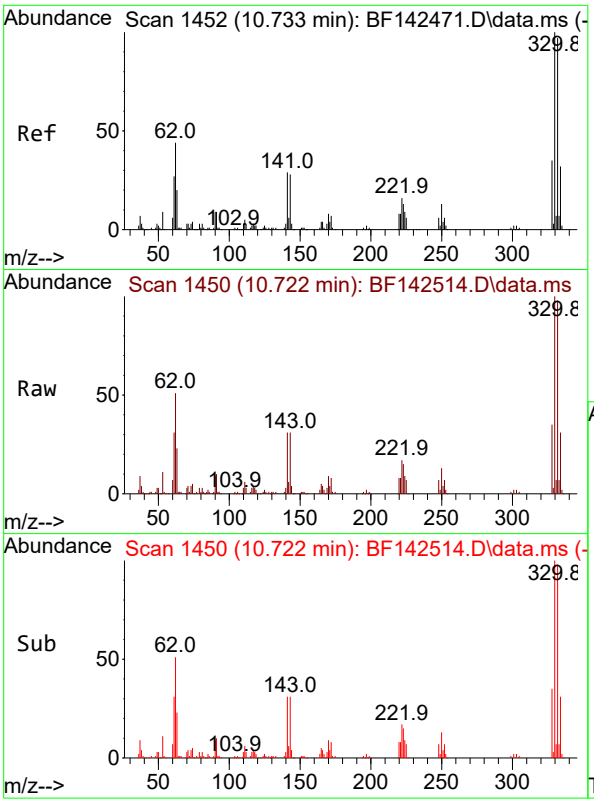


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.934 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Tgt Ion:164 Resp: 196334

Ion	Ratio	Lower	Upper
164	100		
162	99.6	80.2	120.4
160	43.3	35.6	53.4



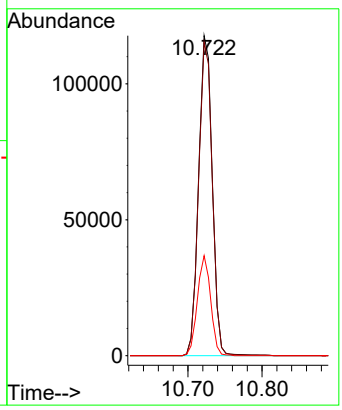


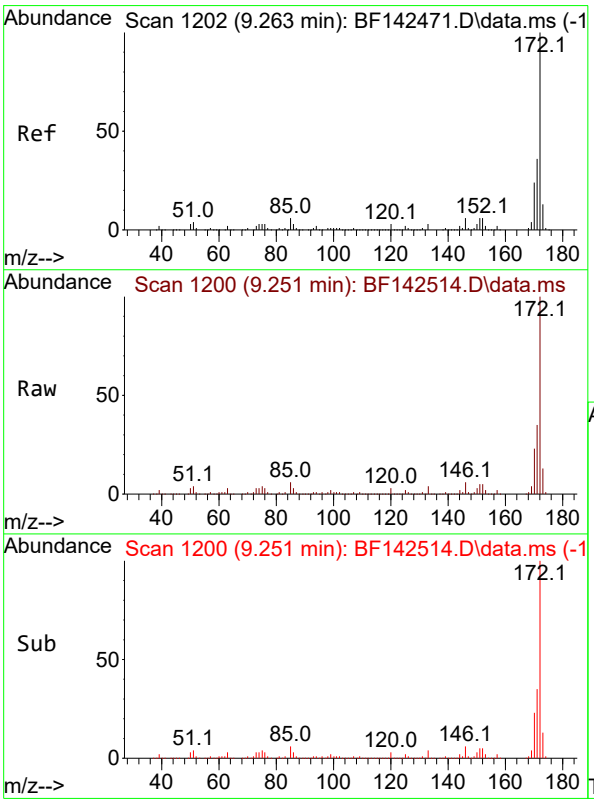
#42
2,4,6-Tribromophenol
Concen: 69.045 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Instrument :
BNA_F
ClientSampleId :
TP-15

Tgt Ion:330 Resp: 150454

Ion	Ratio	Lower	Upper
330	100		
332	98.2	77.6	116.4
141	30.4	24.6	36.8

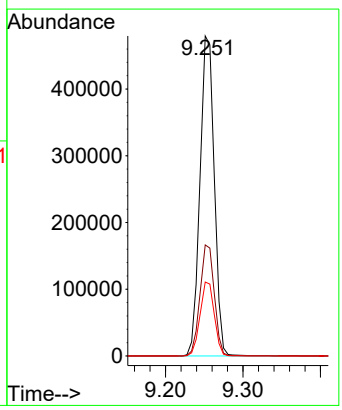


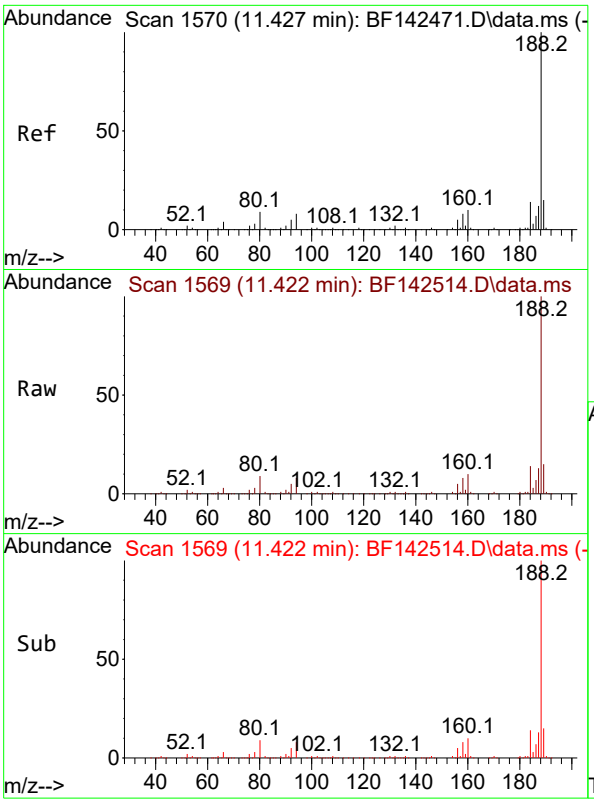


#45
2-Fluorobiphenyl
Concen: 42.035 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.017 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Tgt Ion:172 Resp: 615030

Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.6	42.8
170	23.1	18.9	28.3



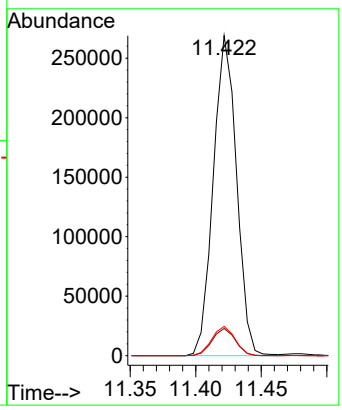


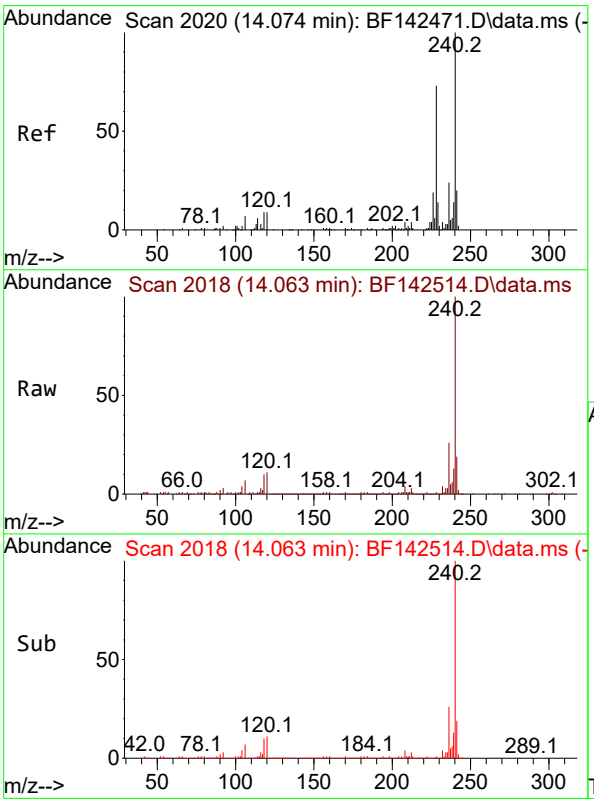
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Instrument :
BNA_F
ClientSampleId :
TP-15

Tgt Ion:188 Resp: 331001

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.6	10.0
80	9.2	7.4	11.0

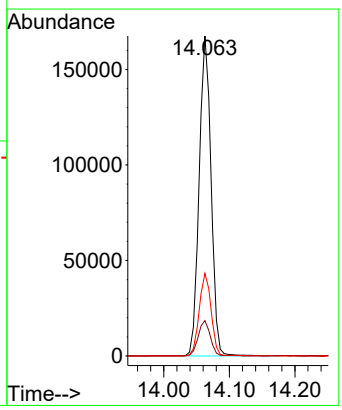


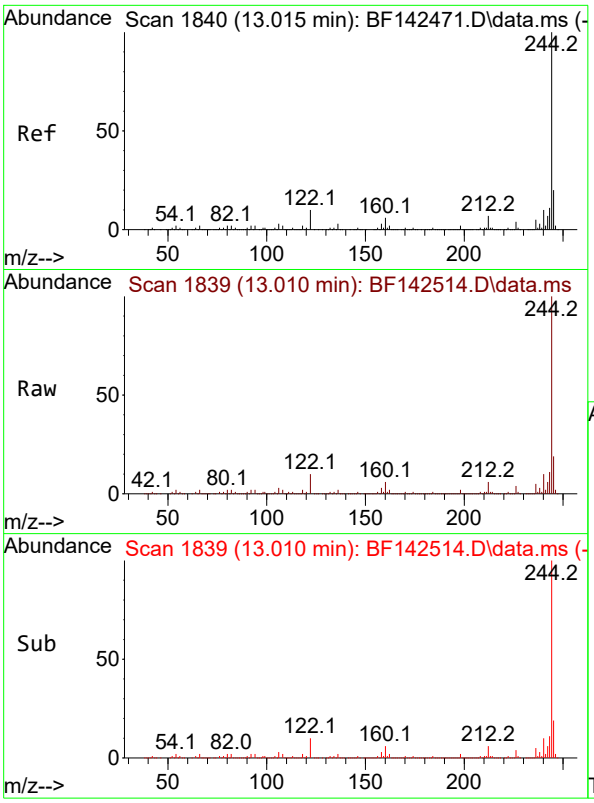


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Tgt Ion:240 Resp: 212263

Ion	Ratio	Lower	Upper
240	100		
120	11.0	7.5	11.3
236	25.8	19.6	29.4



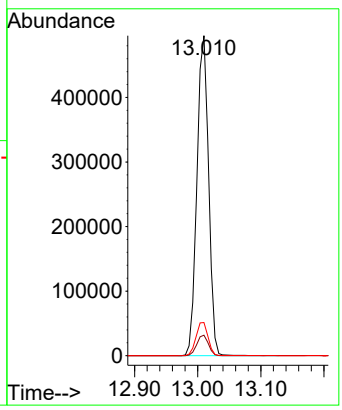


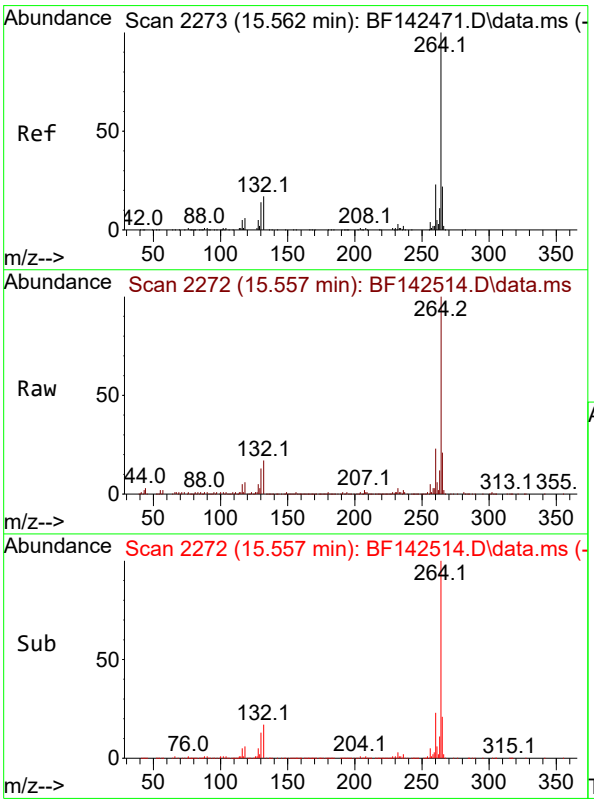
#79
Terphenyl-d14
Concen: 40.841 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Instrument :
BNA_F
ClientSampleId :
TP-15

Tgt Ion:244 Resp: 634371

Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.3	7.9
122	10.4	8.2	12.2

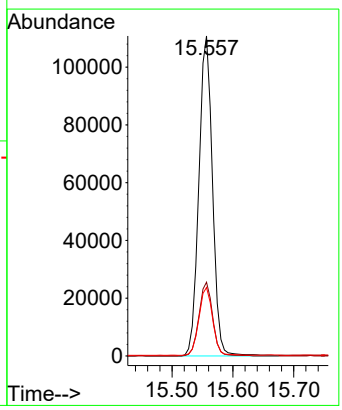




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Tgt Ion:264 Resp: 172640

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	28.0
265	21.4	17.7	26.5



LSC Area Percent Report

Sample Results: **BF142514.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142514.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.110	487	496	505	rBV	125847	184184	10.76%	1.306%
2	5.510	558	564	569	rBV	1222335	1589884	92.89%	11.271%
3	6.516	729	735	750	rVB	1249786	1676975	97.98%	11.888%
4	6.898	795	800	805	rBV	514627	625296	36.53%	4.433%
5	7.457	889	895	900	rBV	777014	983780	57.48%	6.974%
6	7.710	934	938	945	rVB	19172	23730	1.39%	0.168%
7	8.181	1012	1018	1023	rBV	635810	781917	45.68%	5.543%
8	9.251	1195	1200	1205	rBV	1352761	1711618	100.00%	12.134%
9	9.934	1311	1316	1326	rVB	652758	807665	47.19%	5.725%
10	10.645	1432	1437	1445	rBV	379487	474124	27.70%	3.361%
11	10.722	1445	1450	1460	rVB	882326	1107524	64.71%	7.851%
12	10.957	1485	1490	1497	rVB	73093	88008	5.14%	0.624%
13	11.422	1564	1569	1576	rBV	646400	798504	46.65%	5.661%
14	11.945	1653	1658	1670	rBV2	136904	216257	12.63%	1.533%
15	12.445	1738	1743	1750	rBV	22803	34589	2.02%	0.245%
16	12.639	1772	1776	1779	rBV	12924	19741	1.15%	0.140%
17	12.733	1787	1792	1800	rBV6	15815	34460	2.01%	0.244%
18	12.827	1804	1808	1811	rBV	16752	21754	1.27%	0.154%
19	12.869	1811	1815	1824	rVB2	12945	32519	1.90%	0.231%
20	13.010	1833	1839	1844	rBV	1290327	1673459	97.77%	11.863%
21	13.316	1888	1891	1894	rVB5	16328	19877	1.16%	0.141%
22	13.904	1986	1991	2000	rBV	63745	120598	7.05%	0.855%
23	14.063	2013	2018	2028	rVB	451126	600979	35.11%	4.260%
24	15.557	2266	2272	2283	rVB	292279	479022	27.99%	3.396%

Sum of corrected areas: 14106464

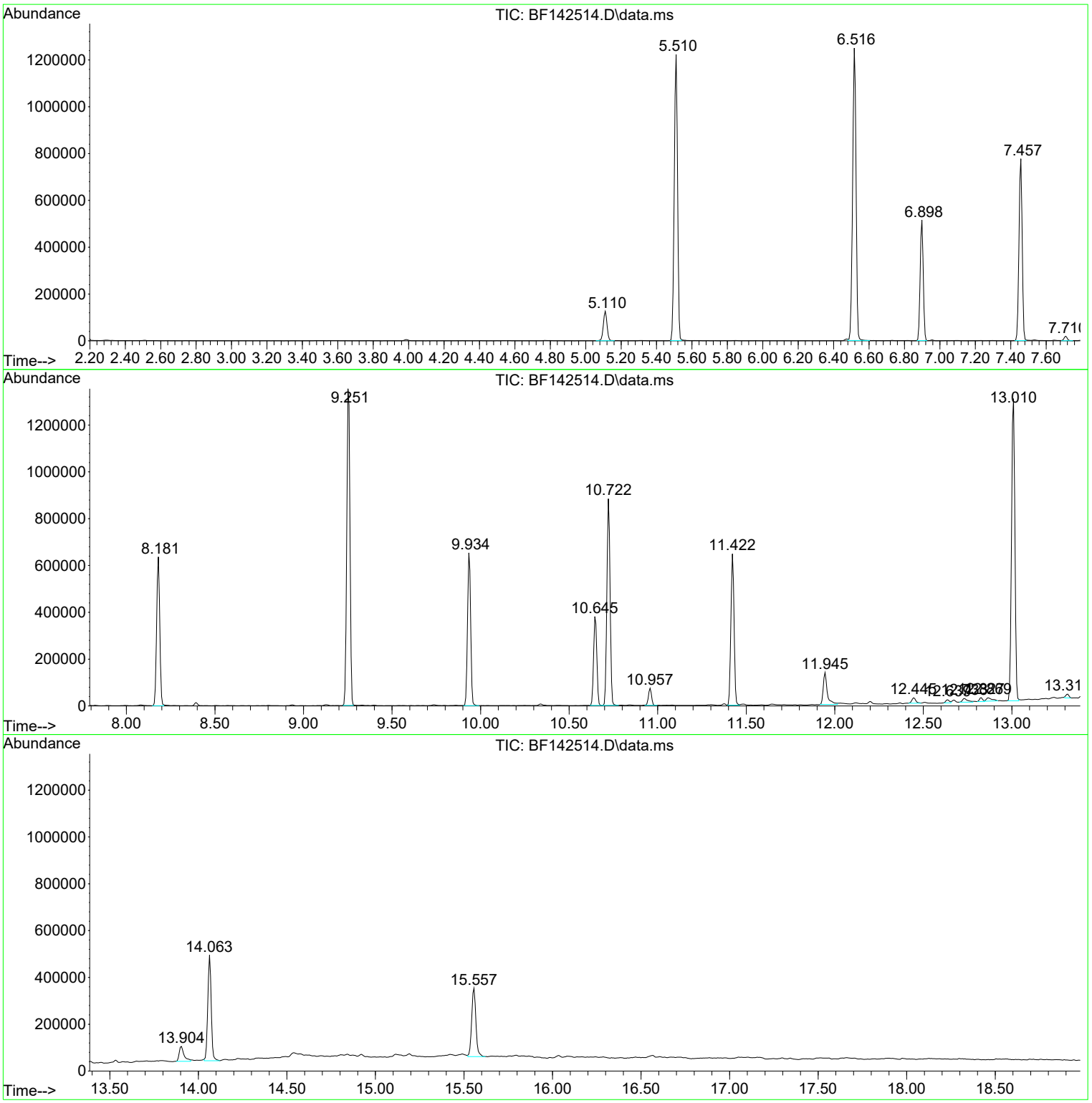
Sample Results: **BF142514.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.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\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

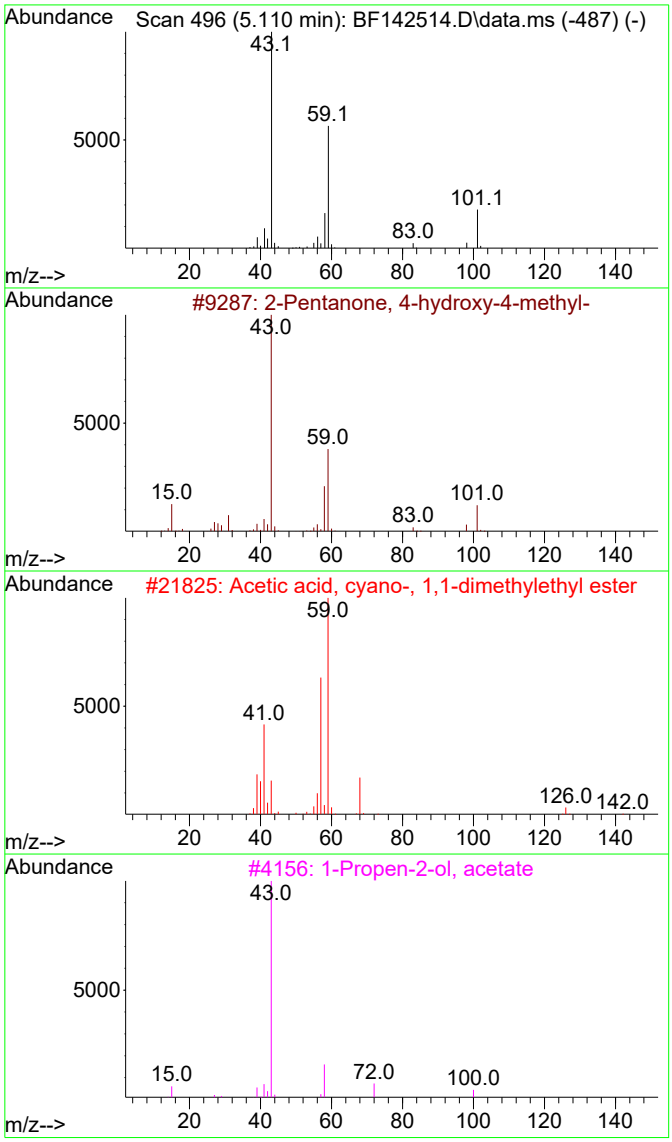
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

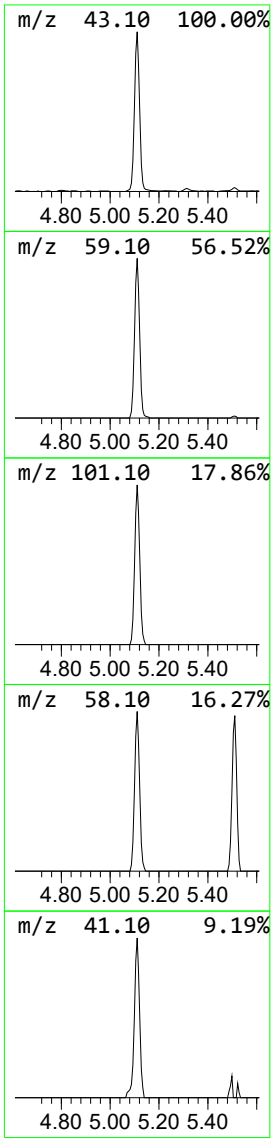
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.110	5.89 ng	184184	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9





Sample Results: **BF142514.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

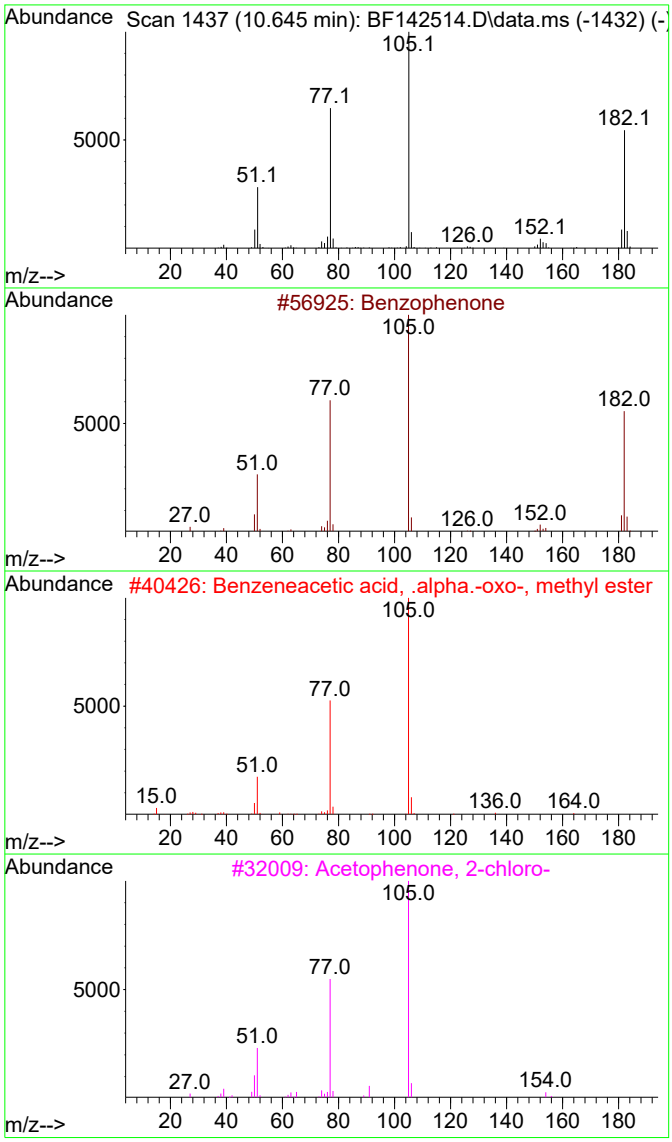
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

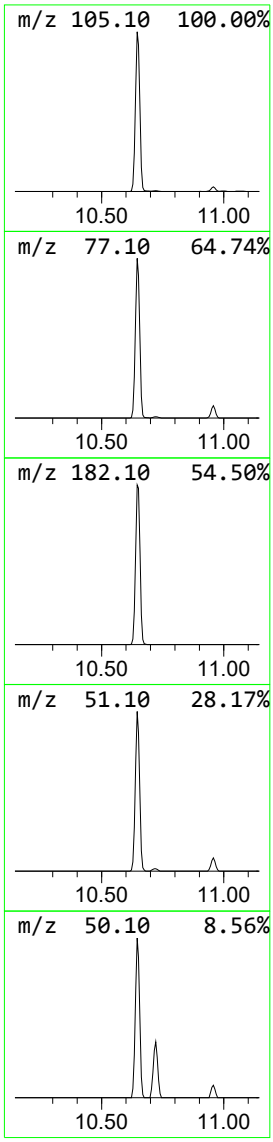
****

Peak Number 2 Benzophenone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	11.74 ng	474124	Acenaphthene-d10	9.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzeneacetic acid, .alpha.-oxo-...	164	C9H8O3	015206-55-0	49
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	47
4	Benzenepropanenitrile, .beta.-oxo-	145	C9H7NO	000614-16-4	47
5	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47





Sample Results: **BF142514.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

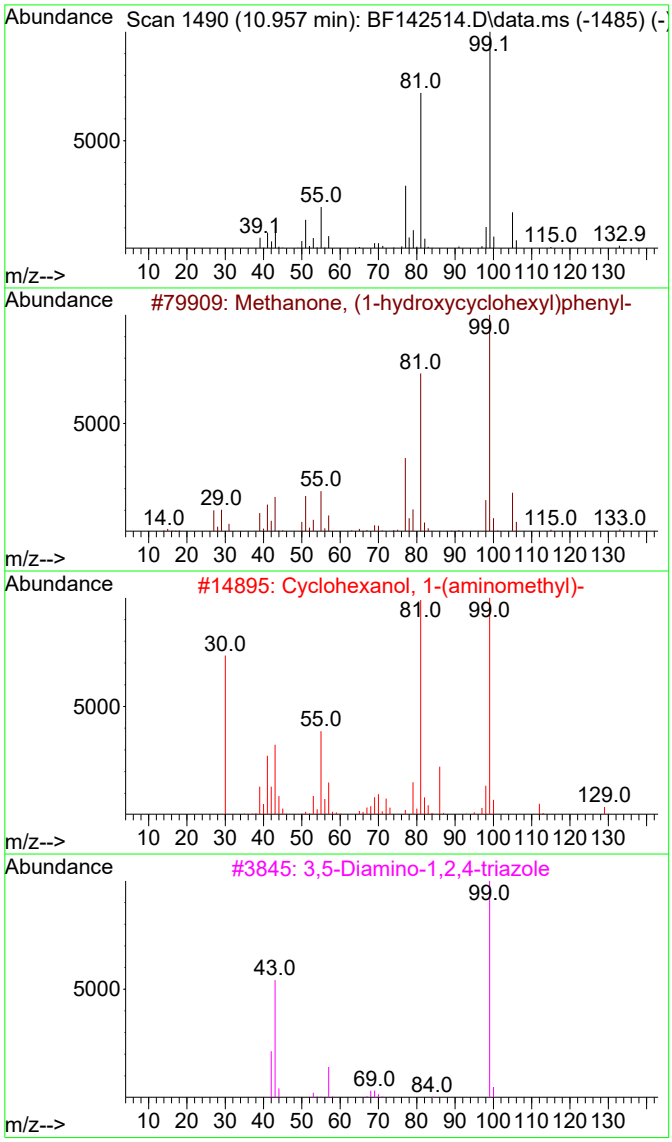
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

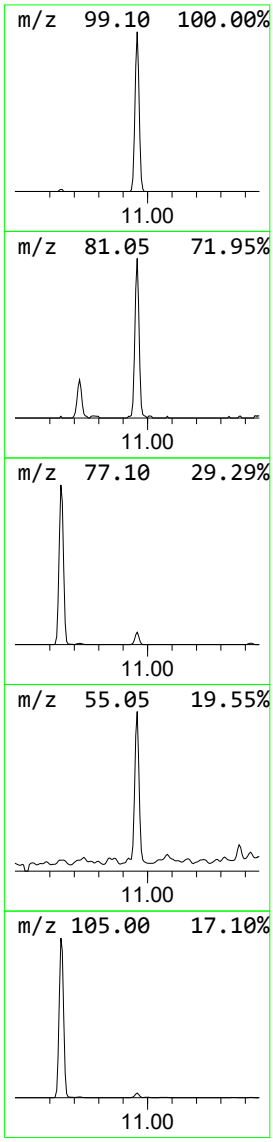
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Methanone, (1-hydroxycycloh... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.957	2.20 ng	88008	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methanone, (1-hydroxycyclohexyl)...	204	C13H16O2	000947-19-3	91
2	Cyclohexanol, 1-(aminomethyl)-	129	C7H15NO	004000-72-0	50
3	3,5-Diamino-1,2,4-triazole	99	C2H5N5	001455-77-2	43
4	3-Methylcyclohexyl methylphospho...	194	C8H16FO2P	113548-86-0	38
5	1-Hydroxycyclohexanecarboxylic acid	144	C7H12O3	001123-28-0	38





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

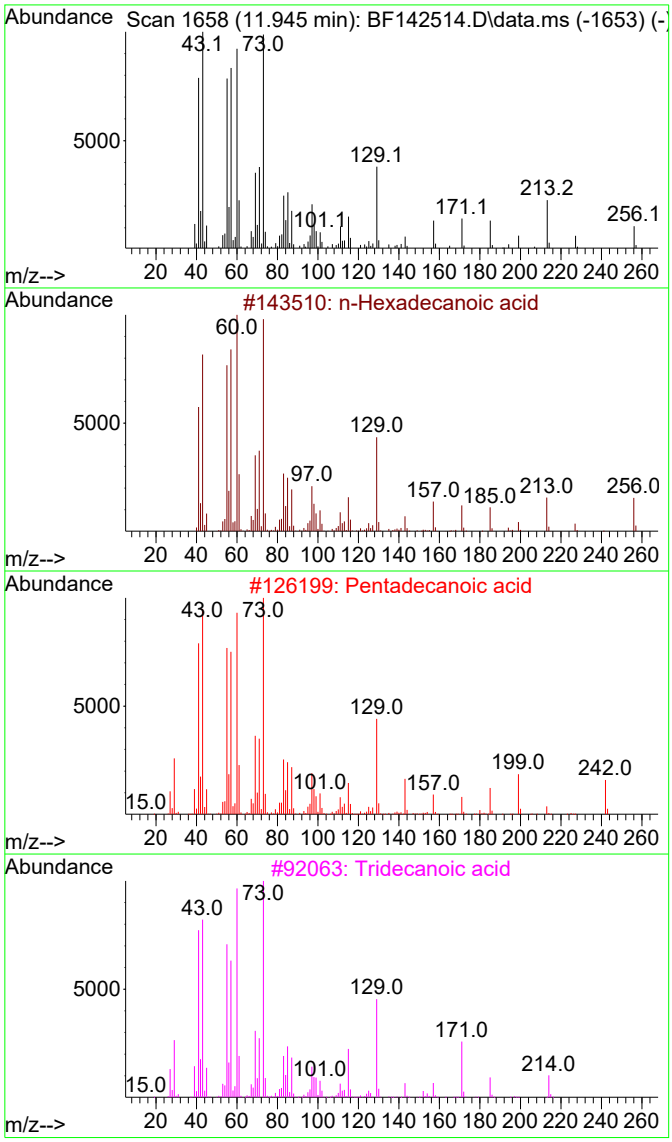
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

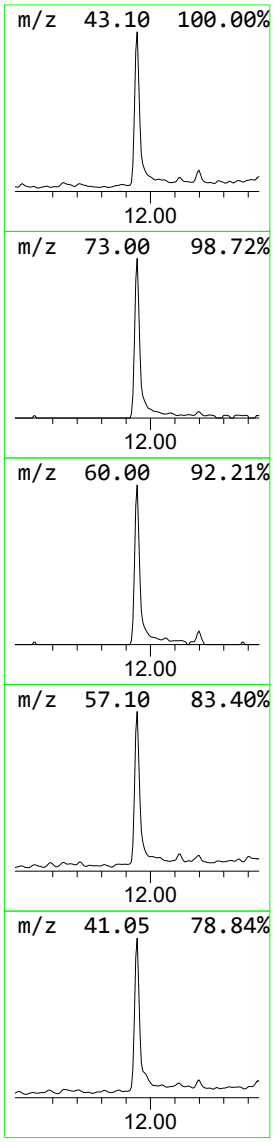
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	5.42 ng	216257	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
3	Tridecanoic acid	214	C13H26O2	000638-53-9	89
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5	Undecanoic acid	186	C11H22O2	000112-37-8	70





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

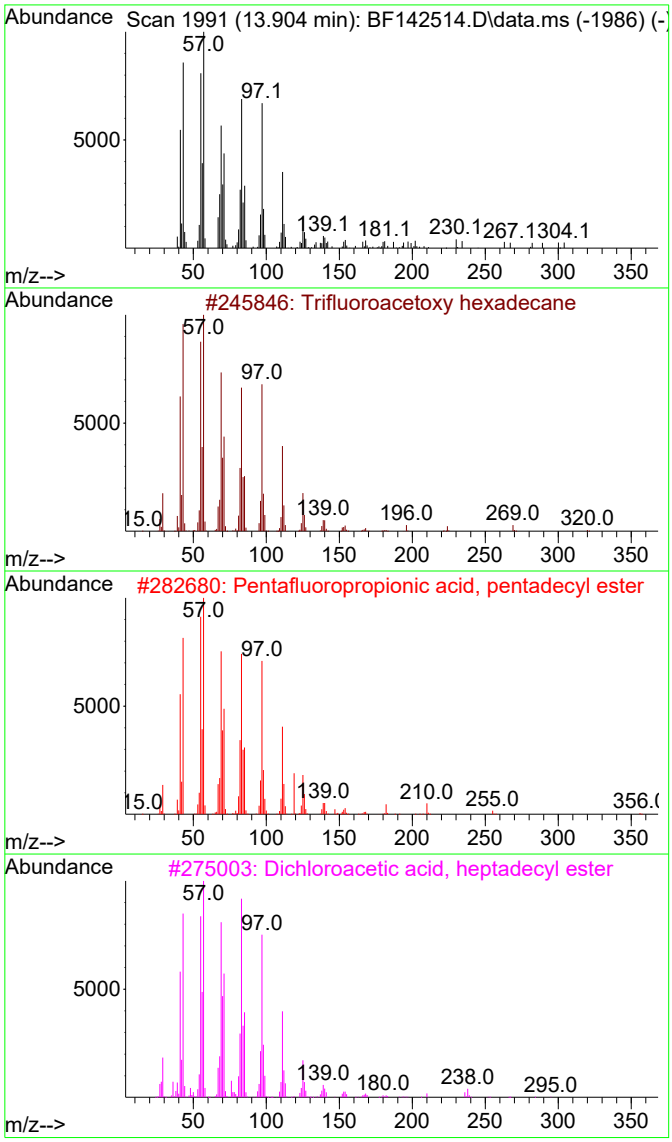
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

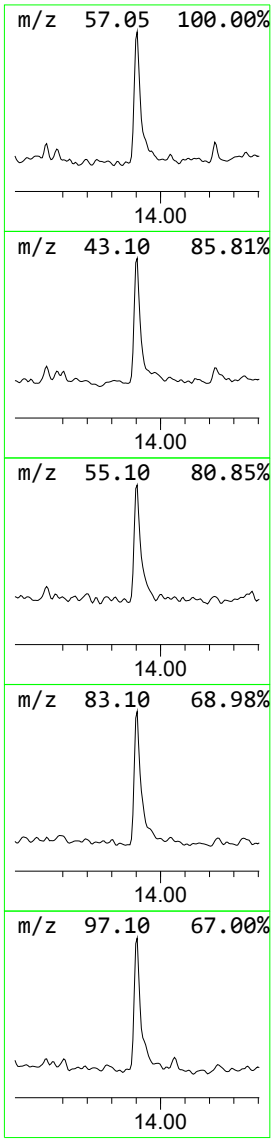
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Trifluoroacetoxy hexadecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	4.01 ng	120598	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	95
2	Pentafluoropropionic acid, penta...	374	C18H31F5O2	959092-08-1	95
3	Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	95
4	Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	93
5	Trifluoroacetic acid, pentadecyl...	324	C17H31F3O2	959010-23-2	93





Sample Results: **BF142514.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.110	5.9	ng	184184	1	6.898	625296	20.0
Benzophenone	10.645	11.7	ng	474124	3	9.934	807665	20.0
Methanone, (1-h...	10.957	2.2	ng	88008	4	11.422	798504	20.0
n-Hexadecanoic ...	11.945	5.4	ng	216257	4	11.422	798504	20.0
Trifluoroacetox...	13.904	4.0	ng	120598	5	14.063	600979	20.0

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.3
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
BF142482.D	1	05/20/25 09:45	05/21/25 12:43	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	390	ug/Kg
108-95-2	Phenol	26.2	U	26.2	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.8	U	28.8	200	ug/Kg
95-57-8	2-Chlorophenol	28.9	U	28.9	200	ug/Kg
95-48-7	2-Methylphenol	35.4	U	35.4	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	44.4	U	44.4	200	ug/Kg
98-86-2	Acetophenone	34.9	U	34.9	200	ug/Kg
65794-96-9	3+4-Methylphenols	48.7	U	48.7	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	56.1	U	56.1	94.7	ug/Kg
67-72-1	Hexachloroethane	20.8	U	20.8	200	ug/Kg
98-95-3	Nitrobenzene	21.7	U	21.7	200	ug/Kg
78-59-1	Isophorone	38.8	U	38.8	200	ug/Kg
88-75-5	2-Nitrophenol	68.9	U	68.9	200	ug/Kg
105-67-9	2,4-Dimethylphenol	76.7	U	76.7	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.5	U	36.5	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.5	U	33.5	200	ug/Kg
91-20-3	Naphthalene	26.9	U	26.9	200	ug/Kg
106-47-8	4-Chloroaniline	41.9	U	41.9	200	ug/Kg
87-68-3	Hexachlorobutadiene	30.0	U	30.0	200	ug/Kg
105-60-2	Caprolactam	61.7	U	61.7	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.0	U	34.0	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.3	U	30.3	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.4	U	23.4	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.5	U	34.5	200	ug/Kg
92-52-4	1,1-Biphenyl	25.8	U	25.8	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.6	U	26.6	200	ug/Kg
88-74-4	2-Nitroaniline	57.0	U	57.0	200	ug/Kg
131-11-3	Dimethylphthalate	32.1	U	32.1	200	ug/Kg

Raw Data: **BF142482.D**

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.3
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
BF142482.D	1	05/20/25 09:45	05/21/25 12:43	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	34.2	U	34.2	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.8	U	39.8	200	ug/Kg
99-09-2	3-Nitroaniline	54.5	U	54.5	200	ug/Kg
83-32-9	Acenaphthene	25.2	U	25.2	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	390	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	390	ug/Kg
132-64-9	Dibenzofuran	26.9	U	26.9	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	59.3	U	59.3	200	ug/Kg
84-66-2	Diethylphthalate	33.5	U	33.5	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.6	U	31.6	200	ug/Kg
86-73-7	Fluorene	30.0	U	30.0	200	ug/Kg
100-01-6	4-Nitroaniline	76.0	U	76.0	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	39.0	U	39.0	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.9	U	32.9	200	ug/Kg
118-74-1	Hexachlorobenzene	30.0	U	30.0	200	ug/Kg
1912-24-9	Atrazine	40.3	U	40.3	200	ug/Kg
87-86-5	Pentachlorophenol	60.8	U	60.8	390	ug/Kg
85-01-8	Phenanthrene	24.8	U	24.8	200	ug/Kg
120-12-7	Anthracene	39.4	U	39.4	200	ug/Kg
86-74-8	Carbazole	36.9	U	36.9	200	ug/Kg
84-74-2	Di-n-butylphthalate	56.7	U	56.7	200	ug/Kg
206-44-0	Fluoranthene	87.4	J	35.5	200	ug/Kg
129-00-0	Pyrene	42.6	U	42.6	200	ug/Kg
85-68-7	Butylbenzylphthalate	84.6	U	84.6	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43.5	U	43.5	390	ug/Kg
56-55-3	Benzo(a)anthracene	27.2	U	27.2	200	ug/Kg
218-01-9	Chrysene	23.6	U	23.6	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	70.1	U	70.1	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.5	U	22.5	200	ug/Kg

Raw Data: **BF142482.D**

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.3
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
BF142482.D	1	05/20/25 09:45	05/21/25 12:43	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.5	U	26.5	200	ug/Kg
50-32-8	Benzo(a)pyrene	34.9	U	34.9	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	34.5	U	34.5	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.4	U	32.4	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.4	U	30.4	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.3	U	30.3	200	ug/Kg
123-91-1	1,4-Dioxane	53.5	U	53.5	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.4	U	32.4	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	86.5		18 - 112	58%	SPK: 150
13127-88-3	Phenol-d6	87.7		15 - 107	58%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.7		18 - 107	51%	SPK: 100
321-60-8	2-Fluorobiphenyl	46.6		20 - 109	47%	SPK: 100
118-79-6	2,4,6-Tribromophenol	85.8		10 - 116	57%	SPK: 150
1718-51-0	Terphenyl-d14	40.0		10 - 105	40%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	78200	6.898			
1146-65-2	Naphthalene-d8	293000	8.181			
15067-26-2	Acenaphthene-d10	152000	9.933			
1517-22-2	Phenanthrene-d10	263000	11.422			
1719-03-5	Chrysene-d12	230000	14.063			
1520-96-3	Perylene-d12	198000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	270	AB		5.10	ug/Kg
000119-61-9	Benzophenone	500	J		10.7	ug/Kg
000947-19-3	Methanone, (1-hydroxycyclohexyl)ph	89.6	J		11.0	ug/Kg
000057-10-3	n-Hexadecanoic acid	330	J		11.9	ug/Kg
001599-67-3	1-Docosene	180	J		13.9	ug/Kg

Raw Data: **BF142482.D**

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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.3
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
BF142482.D	1	05/20/25 09:45	05/21/25 12:43	PB168083

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

Sample Results: **BF142482.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

Quant Time: May 21 13:16:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

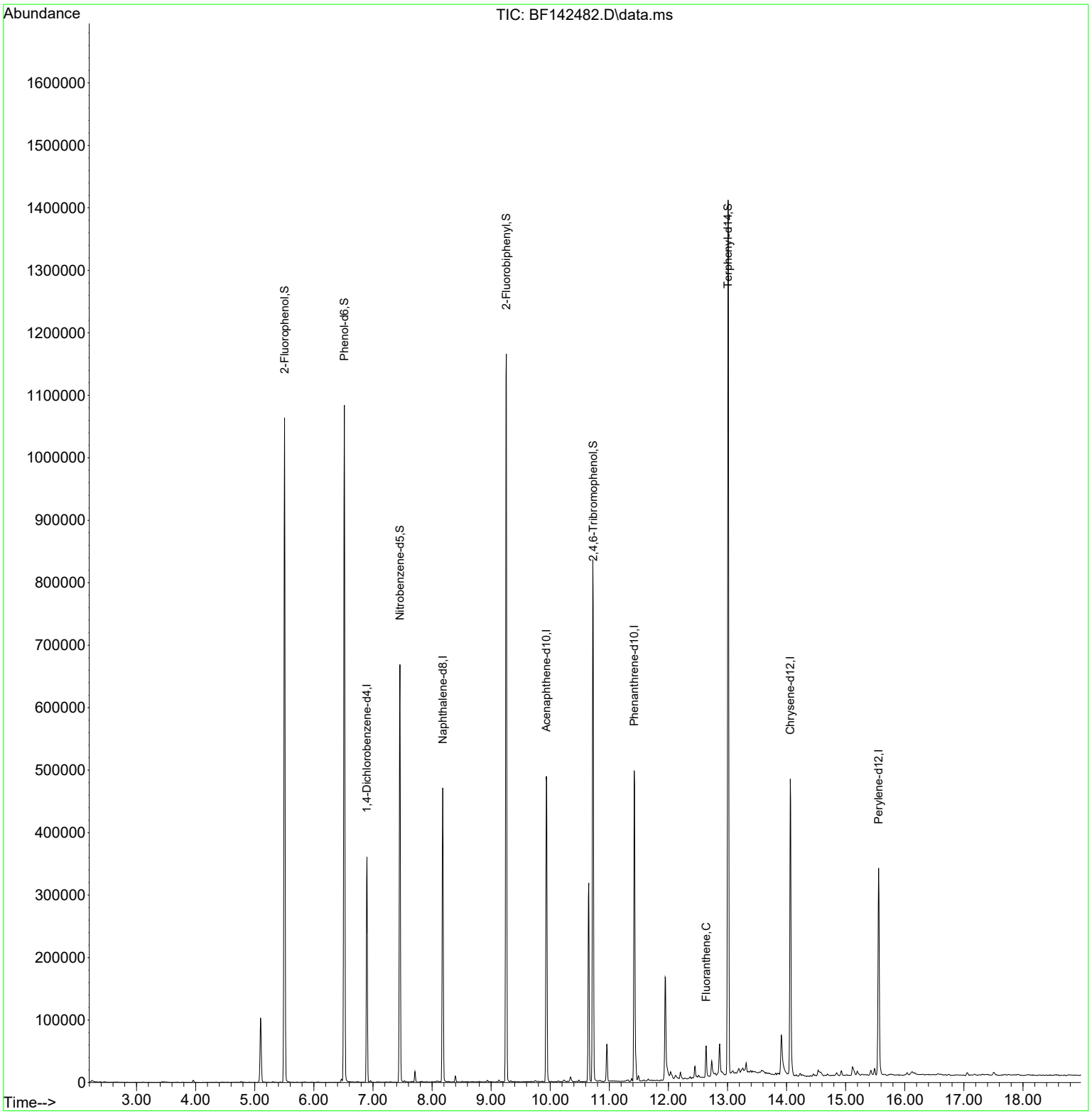
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	78241	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	292583	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	152289	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	263354	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	229725	20.000	ng	-0.01
86) Perylene-d12	15.557	264	197920	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	401727	86.503	ng	-0.01
7) Phenol-d6	6.516	99	490496	87.740	ng	-0.02
23) Nitrobenzene-d5	7.457	82	271981	50.689	ng	-0.02
42) 2,4,6-Tribromophenol	10.728	330	144980	85.776	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	528742	46.589	ng	-0.01
79) Terphenyl-d14	13.010	244	673227	40.048	ng	0.00
Target Compounds						Qvalue
75) Fluoranthene	12.639	202	29099	2.213	ng	98

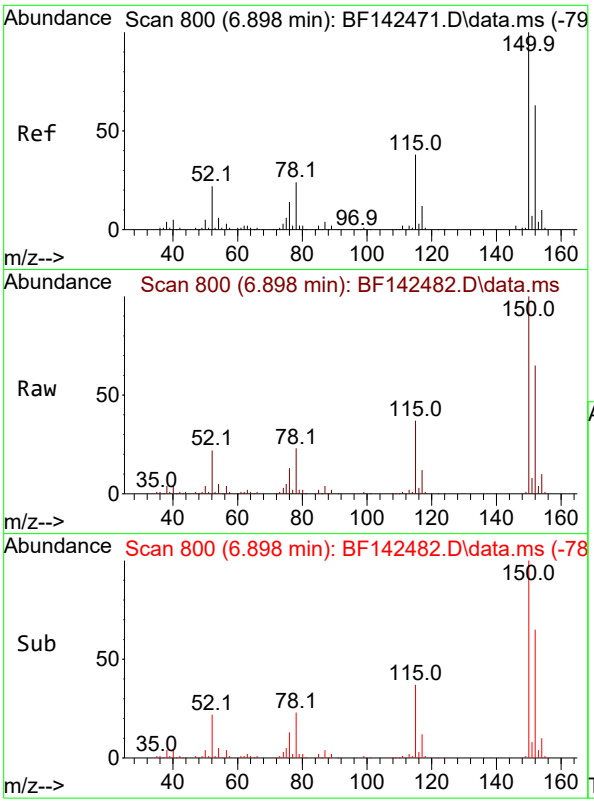
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

Quant Time: May 21 13:16:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



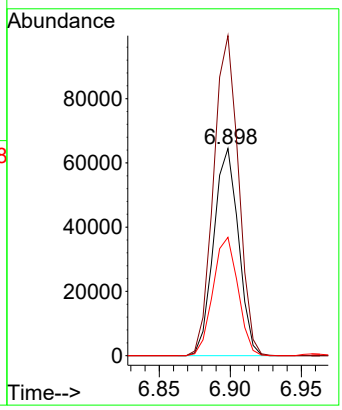


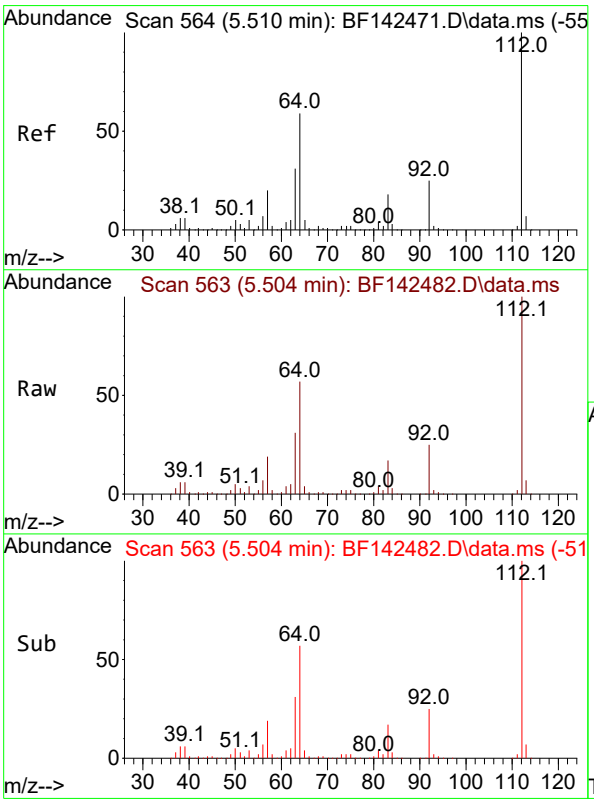
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-20

Tgt Ion:152 Resp: 78241

Ion	Ratio	Lower	Upper
152	100		
150	154.4	128.2	192.4
115	57.1	48.3	72.5

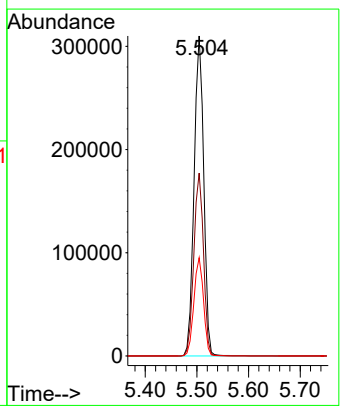


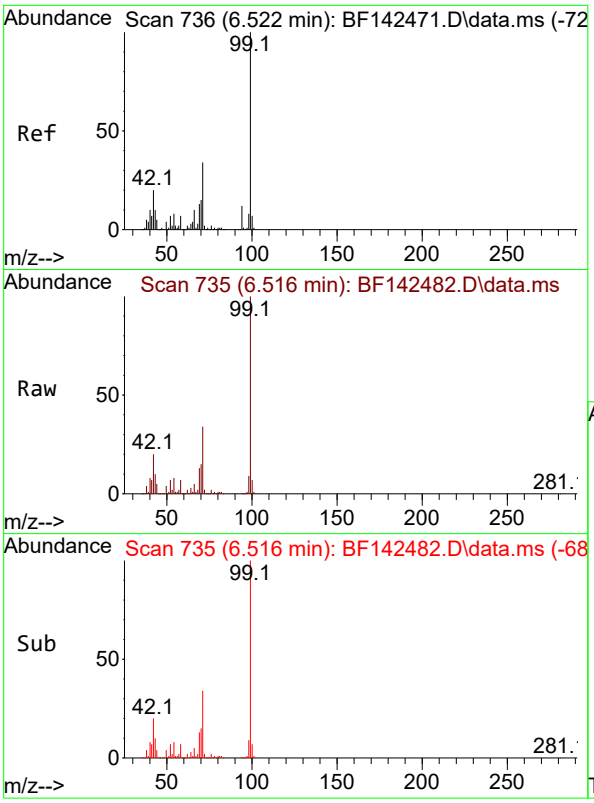


#5
2-Fluorophenol
Concen: 86.503 ng
RT: 5.504 min Scan# 563
Delta R.T. -0.012 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Tgt Ion:112 Resp: 401727

Ion	Ratio	Lower	Upper
112	100		
64	57.1	47.5	71.3
63	30.7	24.9	37.3



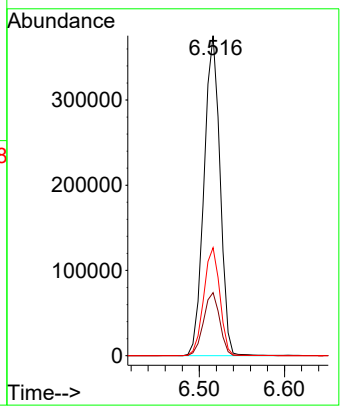


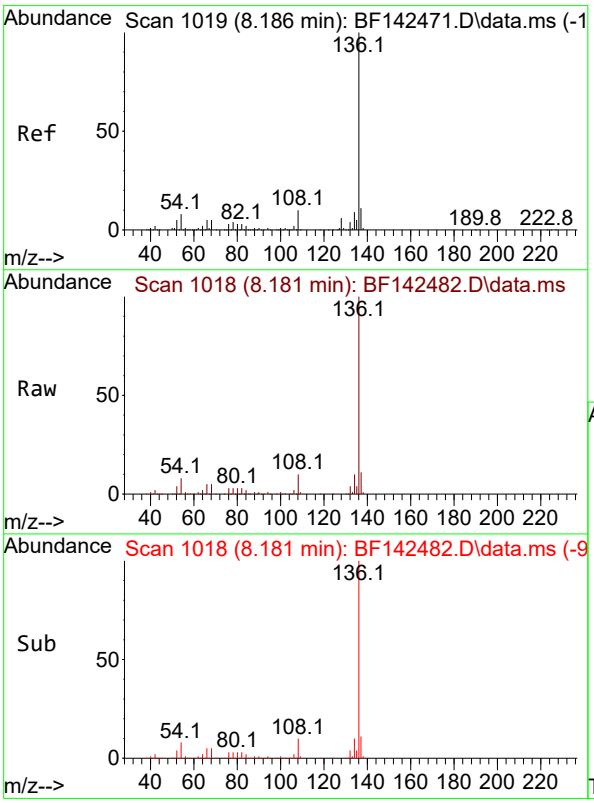
#7
Phenol-d6
Concen: 87.740 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-20

Tgt Ion: 99 Resp: 490496

Ion	Ratio	Lower	Upper
99	100		
42	19.7	16.2	24.2
71	33.8	27.3	40.9

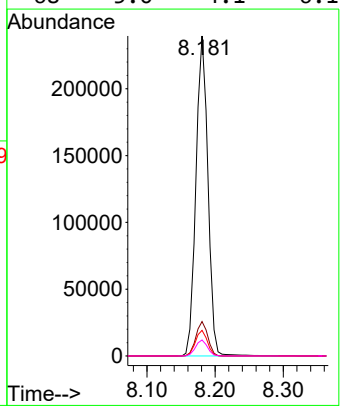


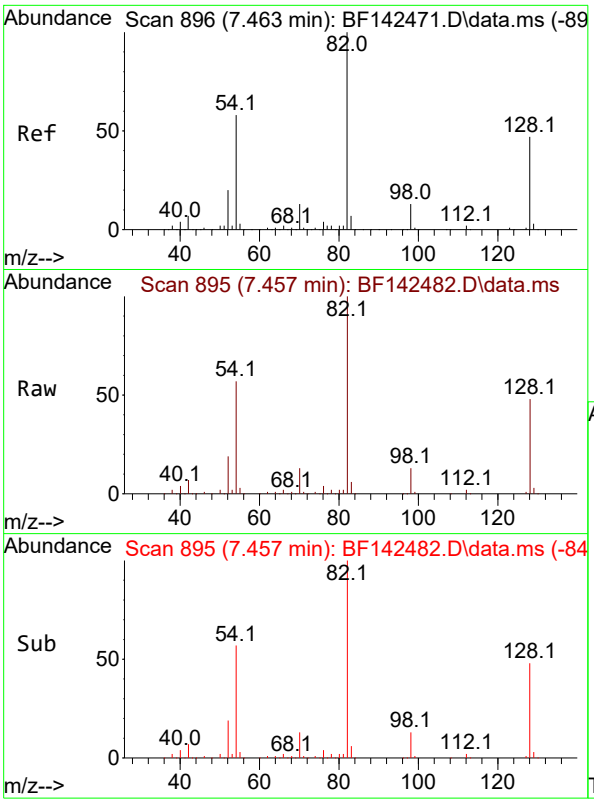


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Tgt Ion:136 Resp: 292583

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	8.0	6.6	10.0
68	5.0	4.1	6.1



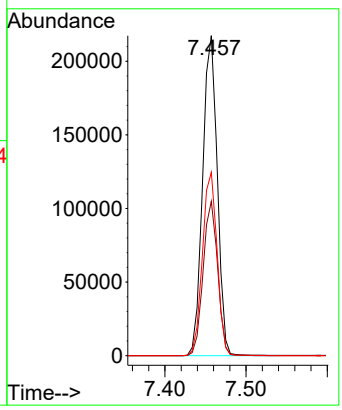


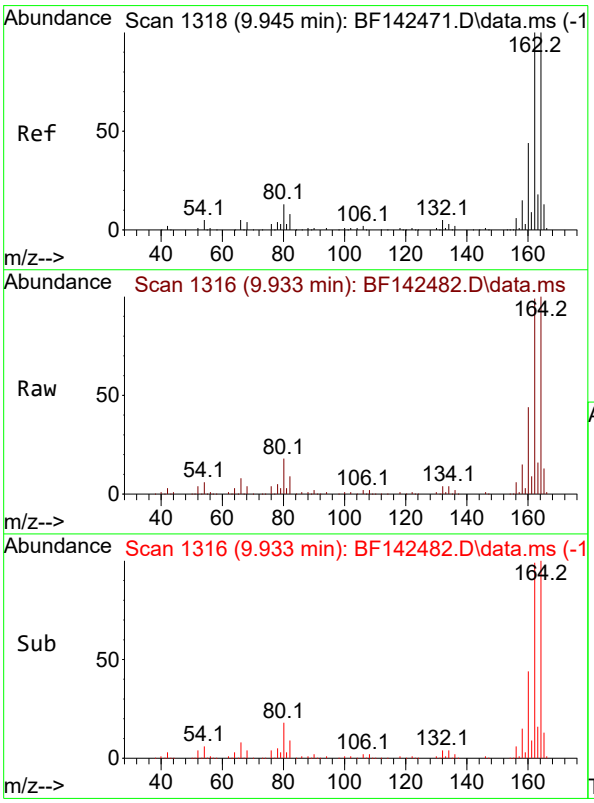
#23
Nitrobenzene-d5
Concen: 50.689 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-20

Tgt Ion: 82 Resp: 271981

Ion	Ratio	Lower	Upper
82	100		
128	48.3	37.4	56.2
54	57.3	46.6	70.0

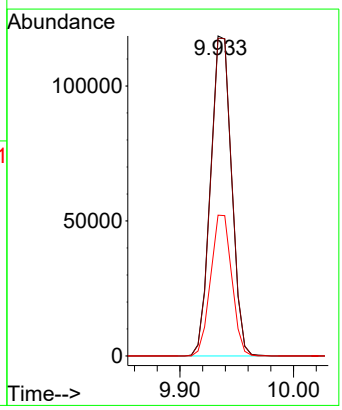


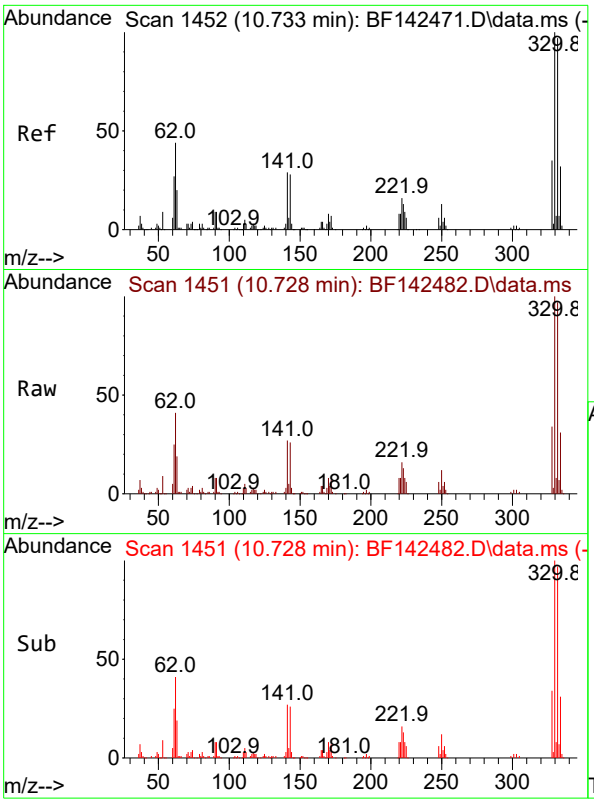


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Tgt Ion:164 Resp: 152289

Ion	Ratio	Lower	Upper
164	100		
162	99.3	80.2	120.4
160	44.0	35.6	53.4



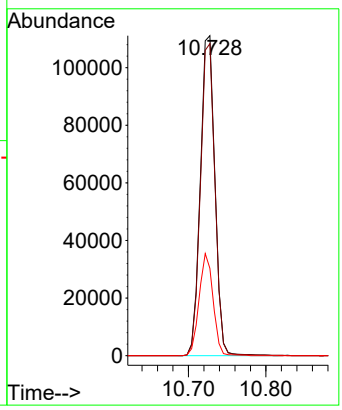


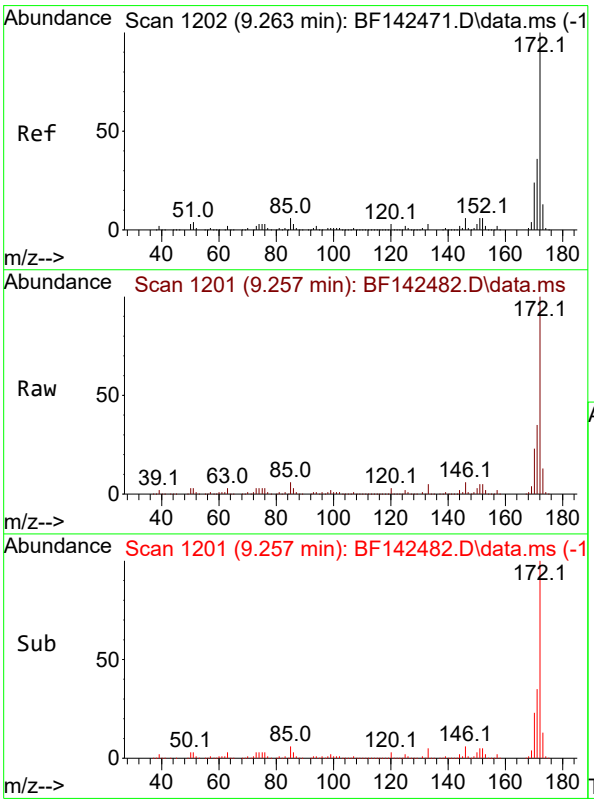
#42
2,4,6-Tribromophenol
Concen: 85.776 ng
RT: 10.728 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-20

Tgt Ion:330 Resp: 144980

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.6	116.4
141	30.6	24.6	36.8

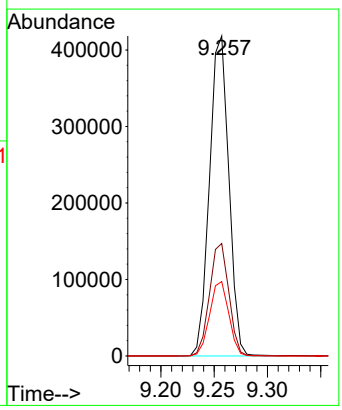


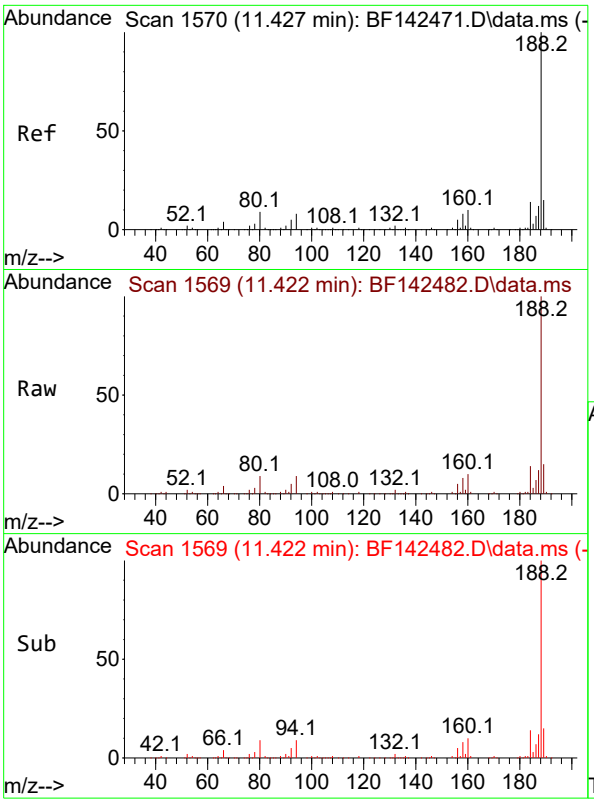


#45
2-Fluorobiphenyl
Concen: 46.589 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Tgt Ion:172 Resp: 528742

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.6	42.8
170	23.2	18.9	28.3



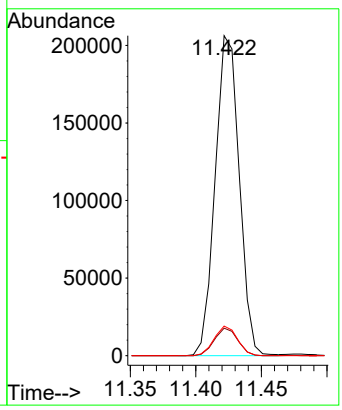


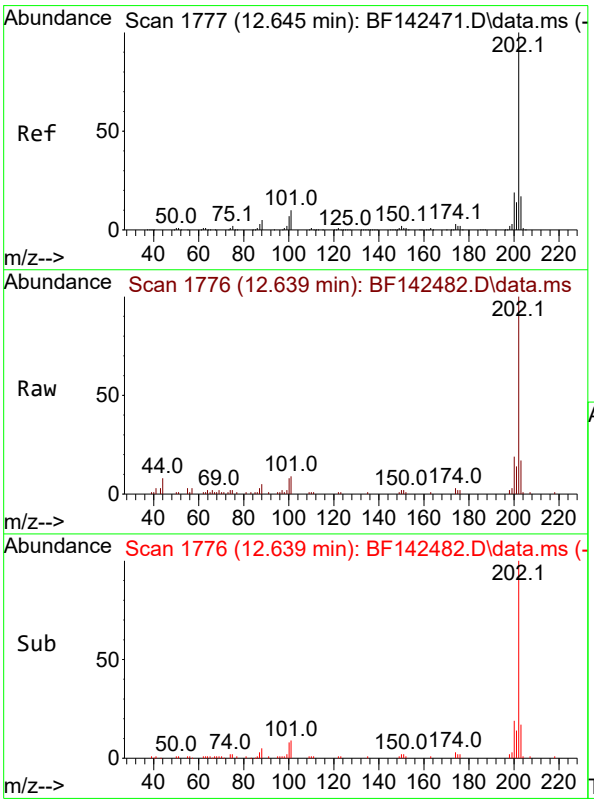
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-20

Tgt Ion:188 Resp: 263354

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.6	10.0
80	9.3	7.4	11.0

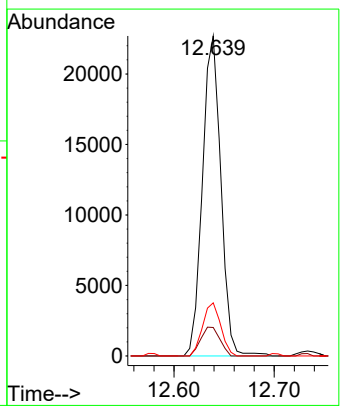


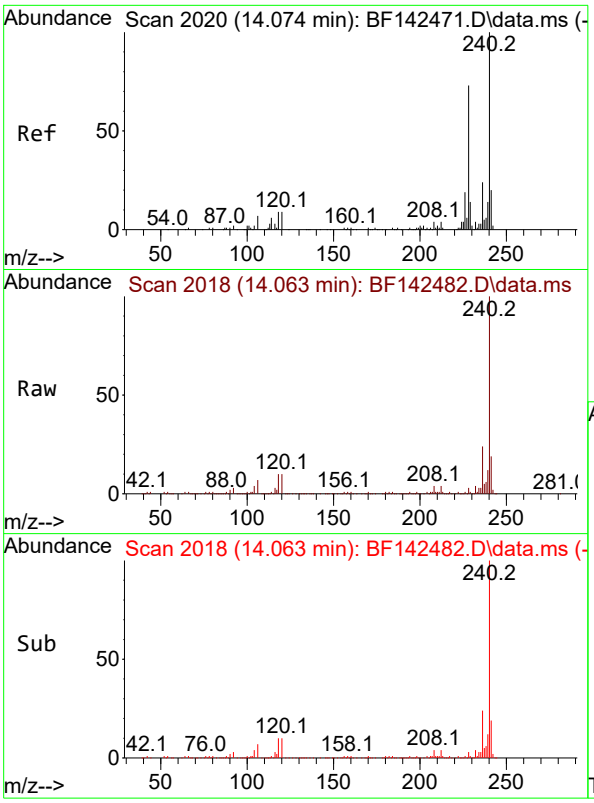


#75
Fluoranthene
Concen: 2.213 ng
RT: 12.639 min Scan# 1776
Delta R.T. -0.006 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Tgt Ion:202 Resp: 29099

Ion	Ratio	Lower	Upper
202	100		
101	8.9	0.0	29.6
203	16.6	0.0	37.2



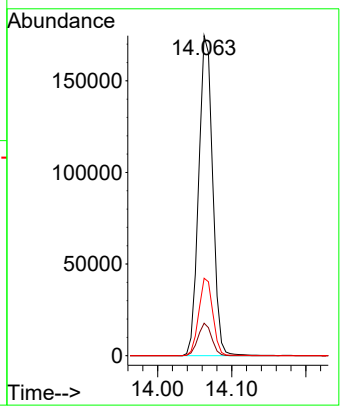


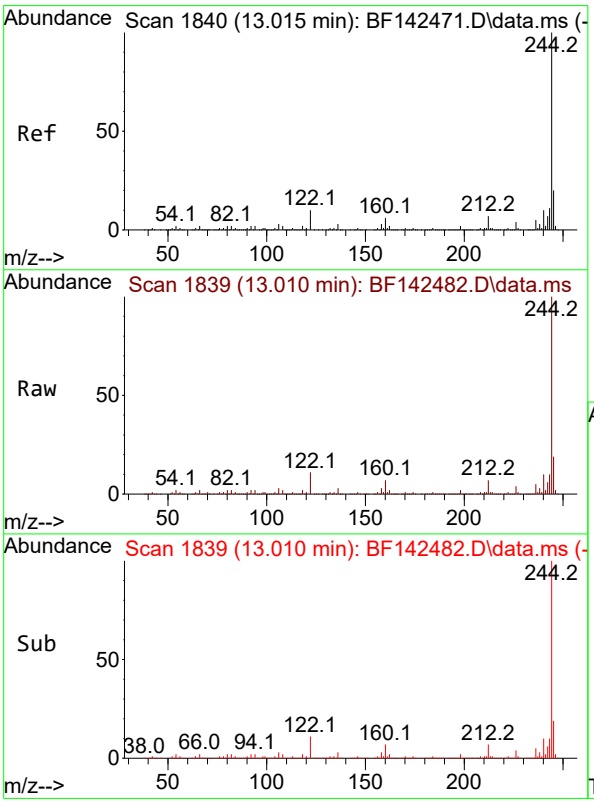
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-20

Tgt Ion:240 Resp: 229725

Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.5	11.3
236	24.2	19.6	29.4

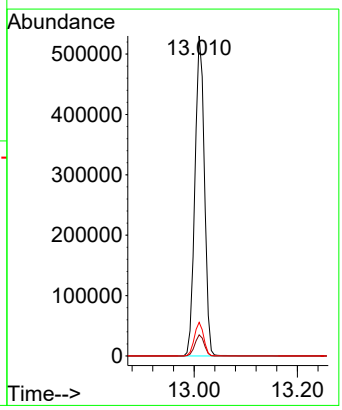


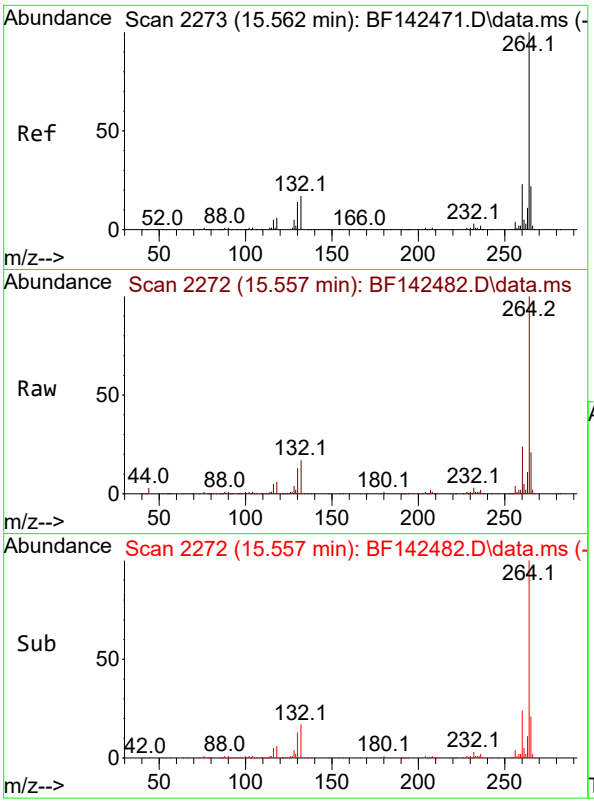


#79
Terphenyl-d14
Concen: 40.048 ng
RT: 13.010 min Scan# 1839
Delta R.T. -0.006 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Tgt Ion:244 Resp: 673227

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.3	7.9
122	10.5	8.2	12.2



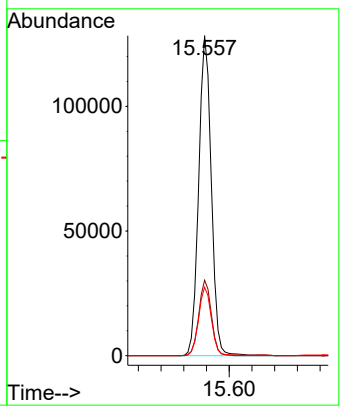


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-20

Tgt Ion:264 Resp: 197920

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.6	28.0
265	21.4	17.7	26.5



Sample Results: **BF142482.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142482.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.099	483	494	502	rBV	103162	150758	8.54%	1.180%
2	5.504	557	563	568	rBV	1063806	1374120	77.85%	10.757%
3	6.516	729	735	740	rBV	1081324	1421529	80.53%	11.128%
4	6.898	795	800	805	rBV	360762	439349	24.89%	3.439%
5	7.457	889	895	900	rBV	668365	831482	47.10%	6.509%
6	7.710	934	938	944	rVB	16763	20140	1.14%	0.158%
7	8.181	1013	1018	1023	rBV	470756	568855	32.23%	4.453%
8	9.257	1195	1201	1206	rBV	1164914	1482217	83.97%	11.603%
9	9.933	1311	1316	1324	rBV	488928	628084	35.58%	4.917%
10	10.651	1432	1438	1443	rBV	317894	393861	22.31%	3.083%
11	10.722	1445	1450	1456	rBV	834896	1059814	60.04%	8.296%
12	10.957	1481	1490	1495	rBV	60159	76250	4.32%	0.597%
13	11.422	1564	1569	1577	rBV	496689	670577	37.99%	5.249%
14	11.945	1651	1658	1670	rBV3	165041	279252	15.82%	2.186%
15	12.033	1670	1673	1682	rVB4	11107	25412	1.44%	0.199%
16	12.451	1739	1744	1747	rBV	18815	25683	1.45%	0.201%
17	12.639	1771	1776	1782	rBV	50441	67011	3.80%	0.525%
18	12.733	1787	1792	1799	rBV	24007	42367	2.40%	0.332%
19	12.869	1810	1815	1820	rBV	46640	64032	3.63%	0.501%
20	13.010	1834	1839	1844	rBV	1398903	1765191	100.00%	13.818%
21	13.316	1888	1891	1896	rVB4	14598	17725	1.00%	0.139%
22	13.910	1987	1992	2010	rBV	63396	146951	8.32%	1.150%
23	14.063	2013	2018	2029	rVB	474627	658371	37.30%	5.154%
24	14.533	2094	2098	2104	rBV6	8798	20257	1.15%	0.159%
25	15.116	2193	2197	2207	rBV	13275	29870	1.69%	0.234%
26	15.557	2266	2272	2286	rVB	331033	515210	29.19%	4.033%

Sum of corrected areas: 12774368

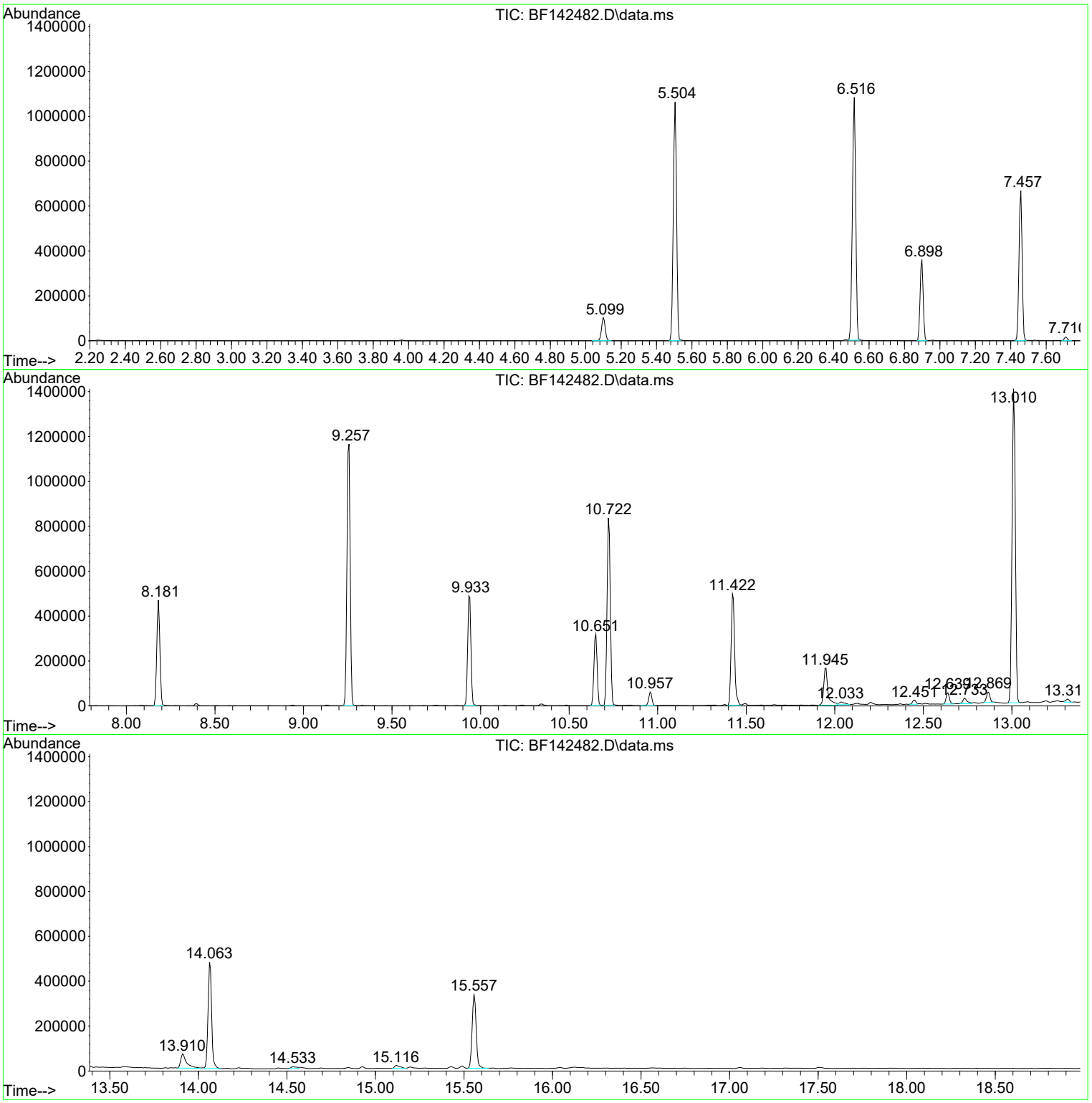
Sample Results: **BF142482.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.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\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

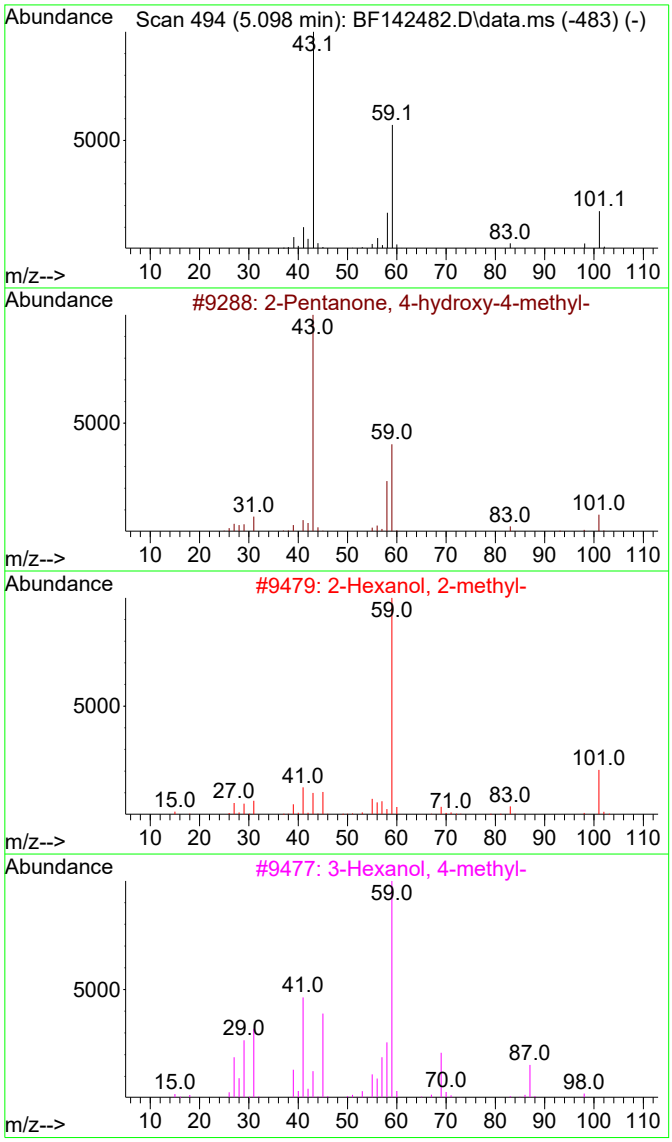
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

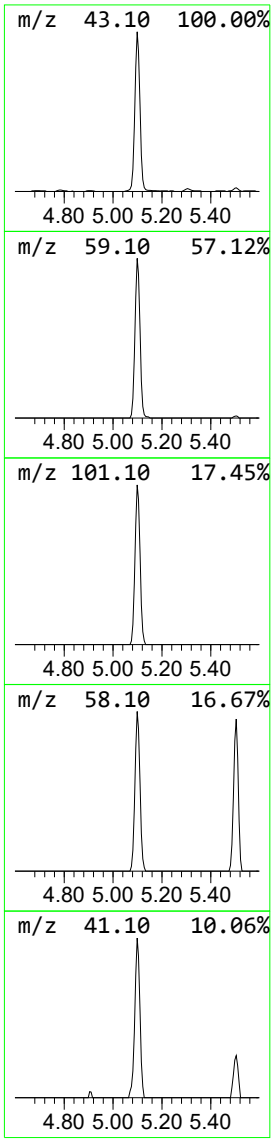
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.098	6.86 ng	150758	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	45
2	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	40
3	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12





Sample Results: **BF142482.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

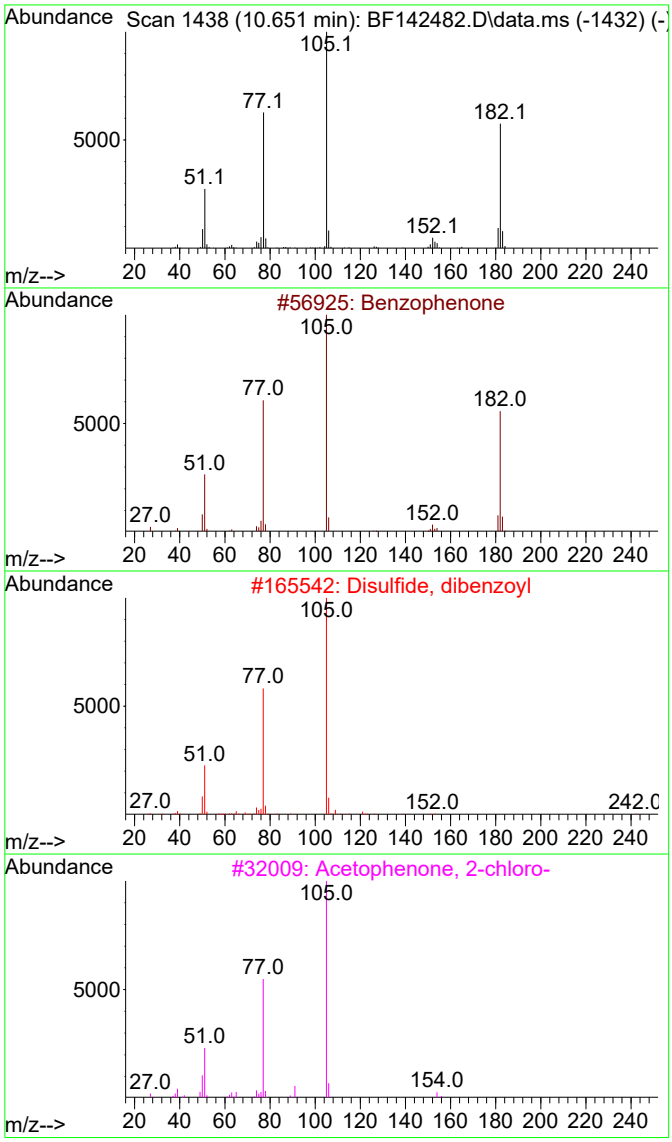
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

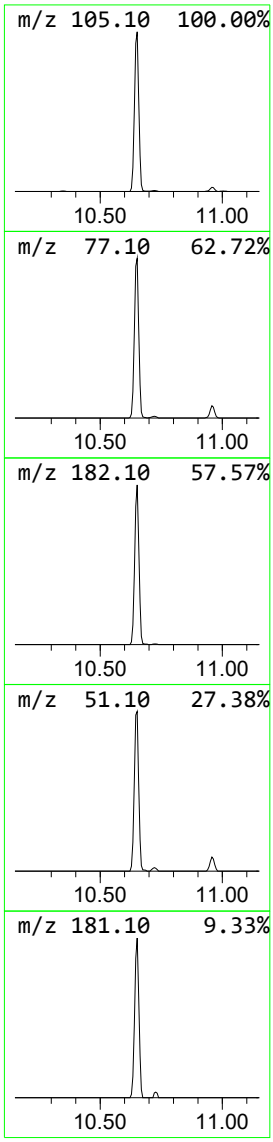
****

Peak Number 2 Benzophenone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	12.54 ng	393861	Acenaphthene-d10	9.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	49
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47
5	acetic acid, 2-bromo-, 2-oxo-2-p...	256	C10H9BrO3	1000401-50-0	47





Sample Results: **BF142482.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

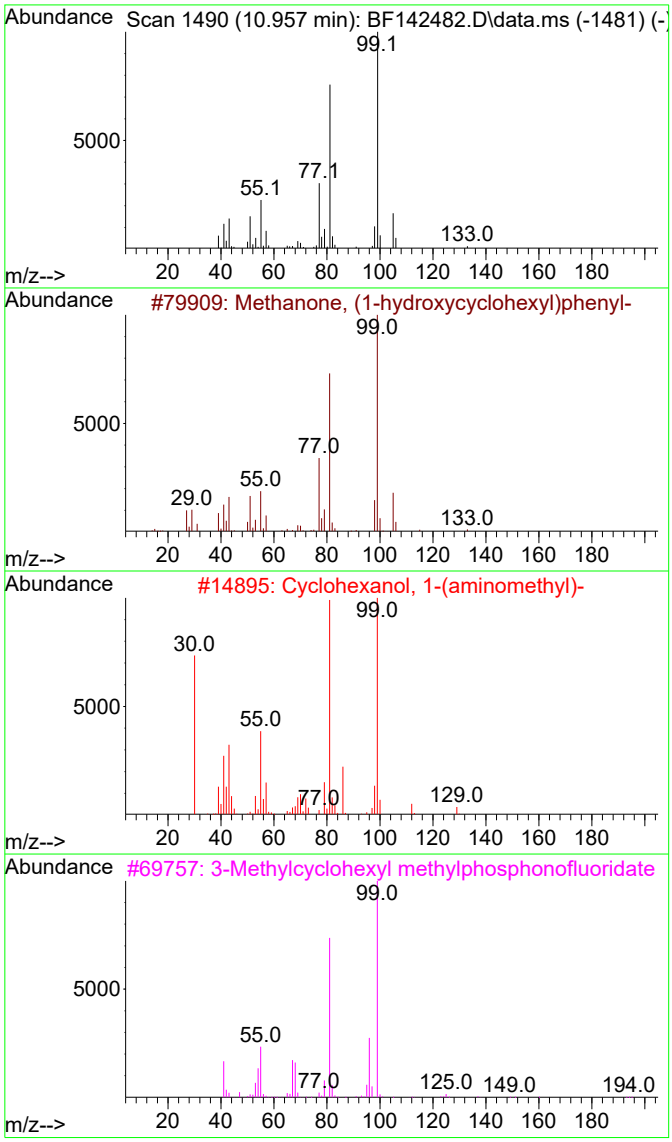
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

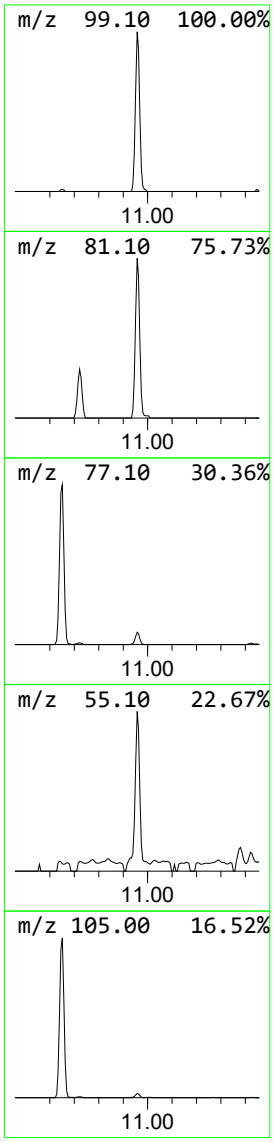
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Methanone, (1-hydroxycycloh... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.957	2.27 ng	76250	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methanone, (1-hydroxycyclohexyl)...	204	C13H16O2	000947-19-3	91
2	Cyclohexanol, 1-(aminomethyl)-	129	C7H15NO	004000-72-0	50
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\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

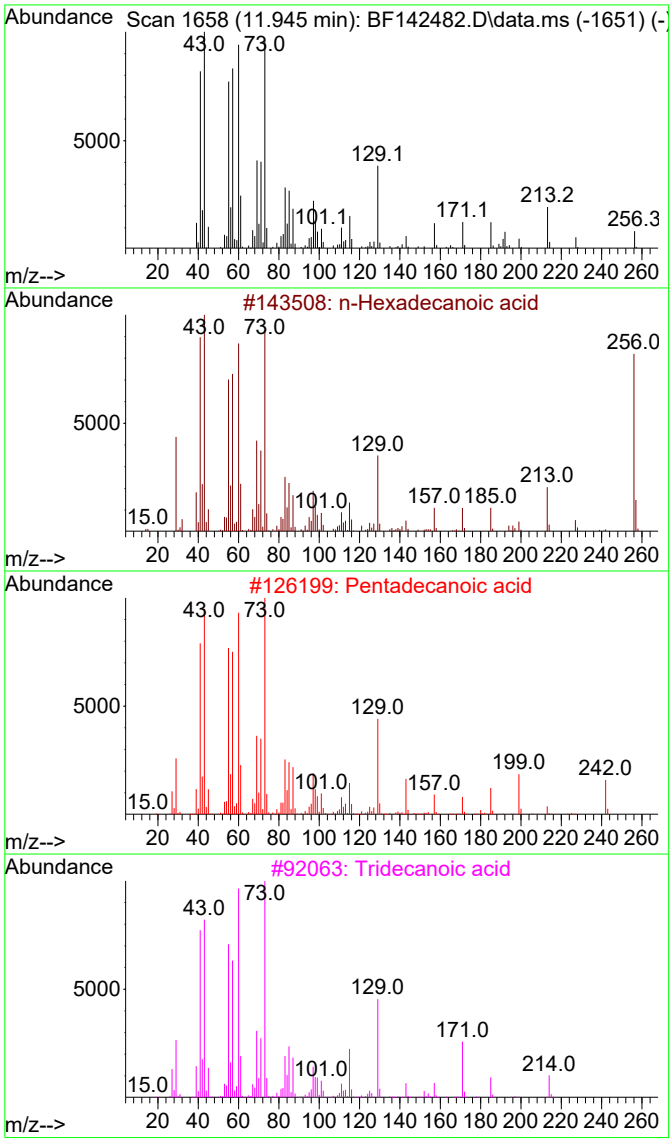
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

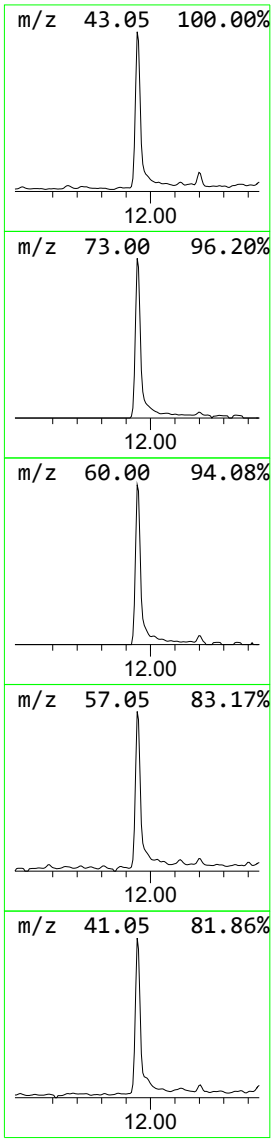
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	8.33 ng	279252	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
3	Tridecanoic acid	214	C13H26O2	000638-53-9	70
4	n-Decanoic acid	172	C10H20O2	000334-48-5	70
5	Undecanoic acid	186	C11H22O2	000112-37-8	64





Sample Results: **BF142482.D**

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On    : 21 May 2025  12:43
Operator  : RC/JU
Sample    : Q2074-04
Misc      :
ALS Vial  : 6   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

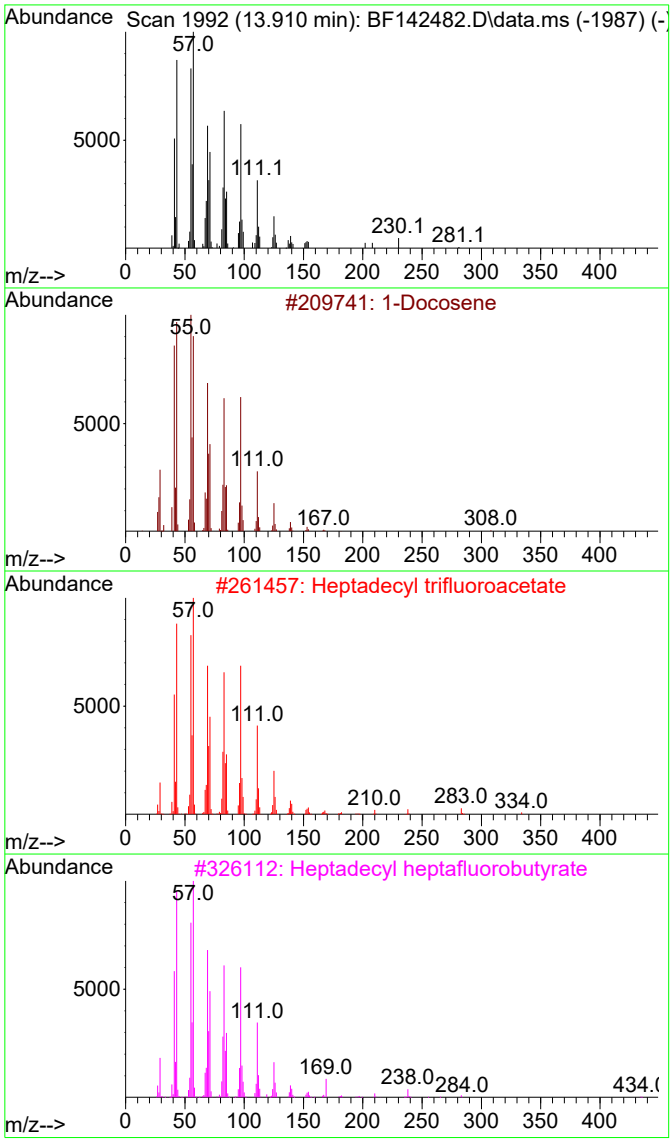
Instrument :
BNA_F
ClientSampleId :
TP-20

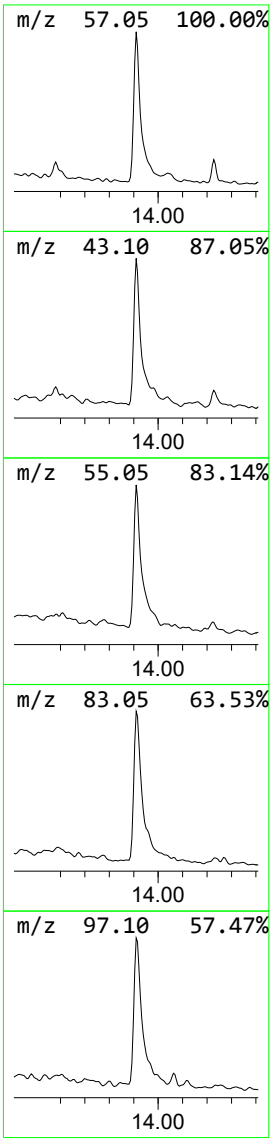
****

Peak Number 5 1-Docosene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.910	4.46 ng	146951	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosene	308	C22H44	001599-67-3	94
2	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	94
3	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	93
4	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	93
5	1-Heneicosanol	312	C21H44O	015594-90-8	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.098	6.9	ng	150758	1	6.898	439349	20.0
Benzophenone	10.651	12.5	ng	393861	3	9.933	628084	20.0
Methanone, (1-h...	10.957	2.3	ng	76250	4	11.422	670577	20.0
n-Hexadecanoic ...	11.945	8.3	ng	279252	4	11.422	670577	20.0
1-Docosene	13.910	4.5	ng	146951	5	14.063	658371	20.0

Raw Data: **BF142505.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81.9
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
BF142505.D	1	05/20/25 09:45	05/22/25 12:42	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	400	ug/Kg
108-95-2	Phenol	26.9	U	26.9	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.6	U	29.6	210	ug/Kg
95-57-8	2-Chlorophenol	29.7	U	29.7	210	ug/Kg
95-48-7	2-Methylphenol	36.4	U	36.4	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	45.7	U	45.7	210	ug/Kg
98-86-2	Acetophenone	35.9	U	35.9	210	ug/Kg
65794-96-9	3+4-Methylphenols	50.0	U	50.0	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	57.7	U	57.7	97.4	ug/Kg
67-72-1	Hexachloroethane	21.4	U	21.4	210	ug/Kg
98-95-3	Nitrobenzene	22.3	U	22.3	210	ug/Kg
78-59-1	Isophorone	39.9	U	39.9	210	ug/Kg
88-75-5	2-Nitrophenol	70.9	U	70.9	210	ug/Kg
105-67-9	2,4-Dimethylphenol	78.9	U	78.9	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	37.5	U	37.5	210	ug/Kg
120-83-2	2,4-Dichlorophenol	34.5	U	34.5	210	ug/Kg
91-20-3	Naphthalene	27.6	U	27.6	210	ug/Kg
106-47-8	4-Chloroaniline	43.1	U	43.1	210	ug/Kg
87-68-3	Hexachlorobutadiene	30.8	U	30.8	210	ug/Kg
105-60-2	Caprolactam	63.4	U	63.4	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.9	U	34.9	210	ug/Kg
91-57-6	2-Methylnaphthalene	31.2	U	31.2	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	24.1	U	24.1	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	35.4	U	35.4	210	ug/Kg
92-52-4	1,1-Biphenyl	26.5	U	26.5	210	ug/Kg
91-58-7	2-Chloronaphthalene	27.4	U	27.4	210	ug/Kg
88-74-4	2-Nitroaniline	58.6	U	58.6	210	ug/Kg
131-11-3	Dimethylphthalate	33.0	U	33.0	210	ug/Kg

Raw Data: **BF142505.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81.9
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
BF142505.D	1	05/20/25 09:45	05/22/25 12:42	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	35.2	U	35.2	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.9	U	40.9	210	ug/Kg
99-09-2	3-Nitroaniline	56.0	U	56.0	210	ug/Kg
83-32-9	Acenaphthene	25.9	U	25.9	210	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	400	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	400	ug/Kg
132-64-9	Dibenzofuran	27.6	U	27.6	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	61.0	U	61.0	210	ug/Kg
84-66-2	Diethylphthalate	34.5	U	34.5	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	32.5	U	32.5	210	ug/Kg
86-73-7	Fluorene	30.8	U	30.8	210	ug/Kg
100-01-6	4-Nitroaniline	78.2	U	78.2	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	40.1	U	40.1	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.9	U	33.9	210	ug/Kg
118-74-1	Hexachlorobenzene	30.8	U	30.8	210	ug/Kg
1912-24-9	Atrazine	41.4	U	41.4	210	ug/Kg
87-86-5	Pentachlorophenol	62.5	U	62.5	400	ug/Kg
85-01-8	Phenanthrene	25.5	U	25.5	210	ug/Kg
120-12-7	Anthracene	40.6	U	40.6	210	ug/Kg
86-74-8	Carbazole	38.0	U	38.0	210	ug/Kg
84-74-2	Di-n-butylphthalate	58.3	U	58.3	210	ug/Kg
206-44-0	Fluoranthene	36.5	U	36.5	210	ug/Kg
129-00-0	Pyrene	43.8	U	43.8	210	ug/Kg
85-68-7	Butylbenzylphthalate	86.9	U	86.9	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	44.7	U	44.7	400	ug/Kg
56-55-3	Benzo(a)anthracene	28.0	U	28.0	210	ug/Kg
218-01-9	Chrysene	24.2	U	24.2	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	J	72.1	210	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	23.1	U	23.1	210	ug/Kg

Raw Data: **BF142505.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81.9
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
BF142505.D	1	05/20/25 09:45	05/22/25 12:42	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	27.3	U	27.3	210	ug/Kg
50-32-8	Benzo(a)pyrene	35.9	U	35.9	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	35.4	U	35.4	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	33.4	U	33.4	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	31.3	U	31.3	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	31.2	U	31.2	210	ug/Kg
123-91-1	1,4-Dioxane	55.0	U	55.0	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	33.4	U	33.4	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	86.7		18 - 112	58%	SPK: 150
13127-88-3	Phenol-d6	87.8		15 - 107	59%	SPK: 150
4165-60-0	Nitrobenzene-d5	54.1		18 - 107	54%	SPK: 100
321-60-8	2-Fluorobiphenyl	47.4		20 - 109	47%	SPK: 100
118-79-6	2,4,6-Tribromophenol	90.3		10 - 116	60%	SPK: 150
1718-51-0	Terphenyl-d14	44.8		10 - 105	45%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	105000	6.898			
1146-65-2	Naphthalene-d8	393000	8.181			
15067-26-2	Acenaphthene-d10	211000	9.934			
1517-22-2	Phenanthrene-d10	363000	11.422			
1719-03-5	Chrysene-d12	195000	14.063			
1520-96-3	Perylene-d12	215000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	300	AB		5.12	ug/Kg
000119-61-9	Benzophenone	250	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	360	J		11.9	ug/Kg
959261-23-5	Heptafluorobutyric acid, pentadecy	120	J		13.9	ug/Kg
000630-01-3	Hexacosane	86.9	J		14.3	ug/Kg
000630-04-6	Hentriacontane	86.9	J		14.8	ug/Kg

Raw Data: **BF142505.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81.9
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
BF142505.D	1	05/20/25 09:45	05/22/25 12:42	PB168083

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\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

Quant Time: May 22 13:04:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

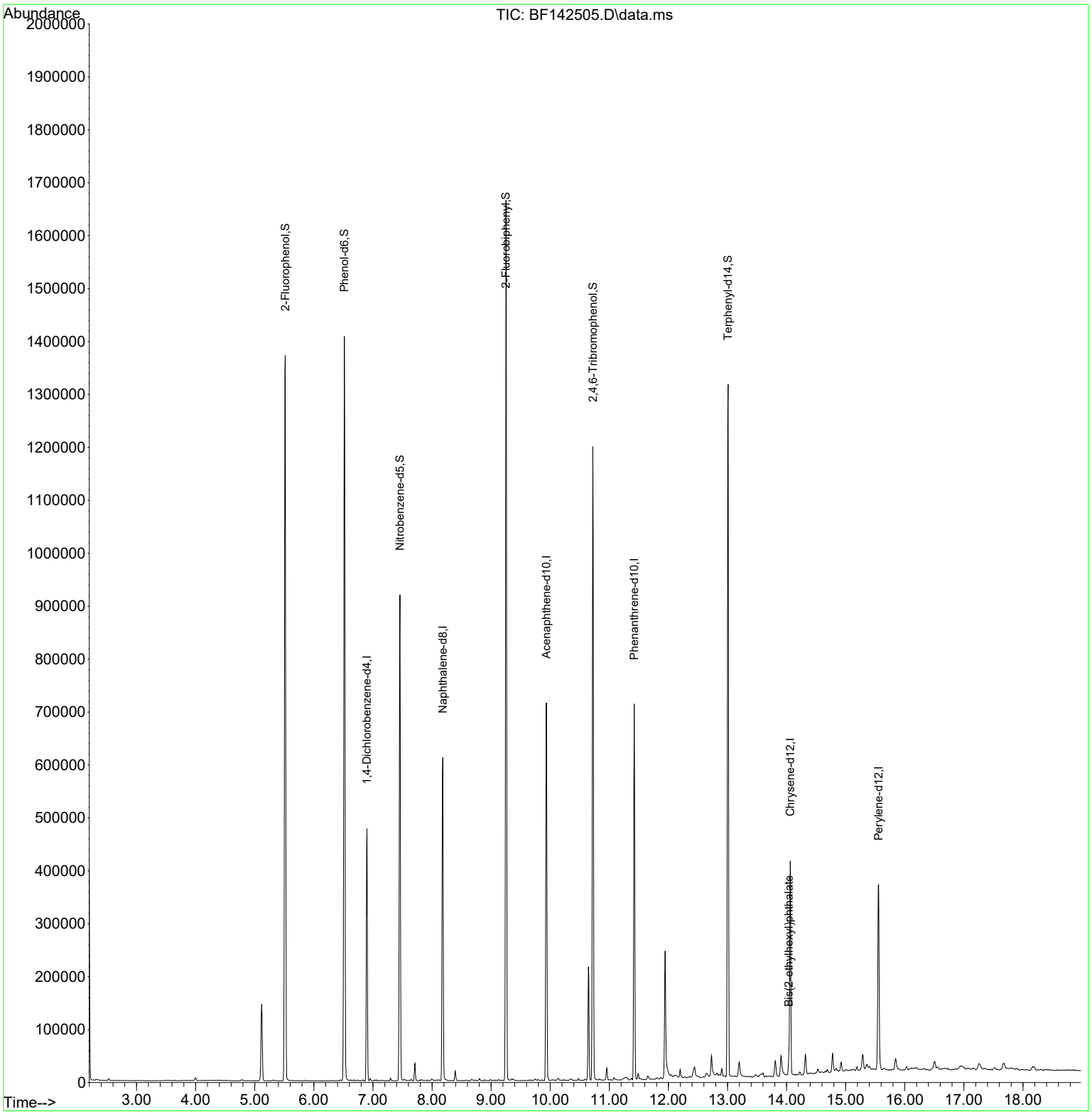
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	105231	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	393023	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	211306	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	363178	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	195335	20.000	ng	-0.01
86) Perylene-d12	15.557	264	215007	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	541642	86.717	ng	0.00
7) Phenol-d6	6.516	99	659959	87.775	ng	-0.02
23) Nitrobenzene-d5	7.457	82	390239	54.143	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	211748	90.289	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	746030	47.375	ng	-0.02
79) Terphenyl-d14	13.010	244	640217	44.789	ng	0.00
Target Compounds						Qvalue
84) Bis(2-ethylhexyl)phtha...	14.039	149	15913	2.469	ng	99

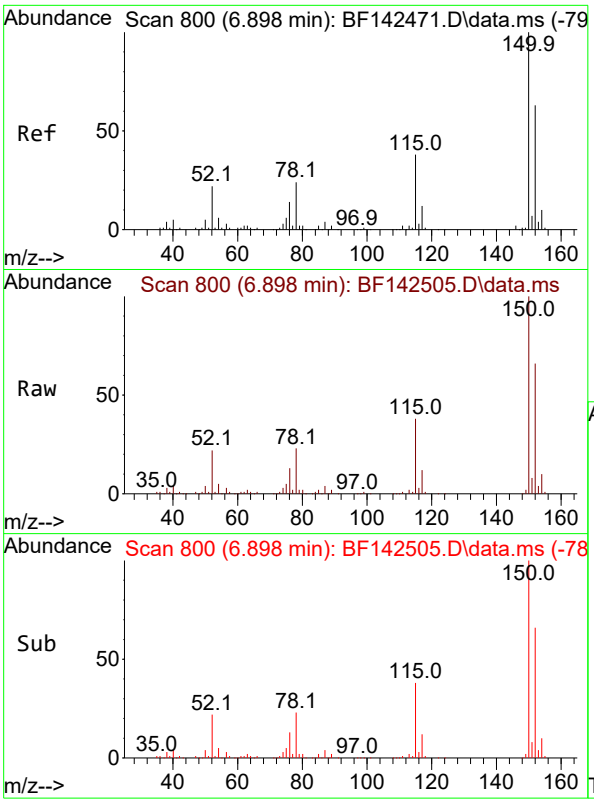
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

Quant Time: May 22 13:04:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



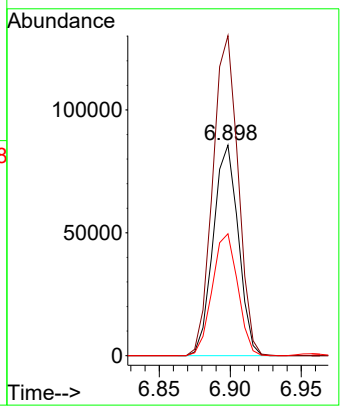


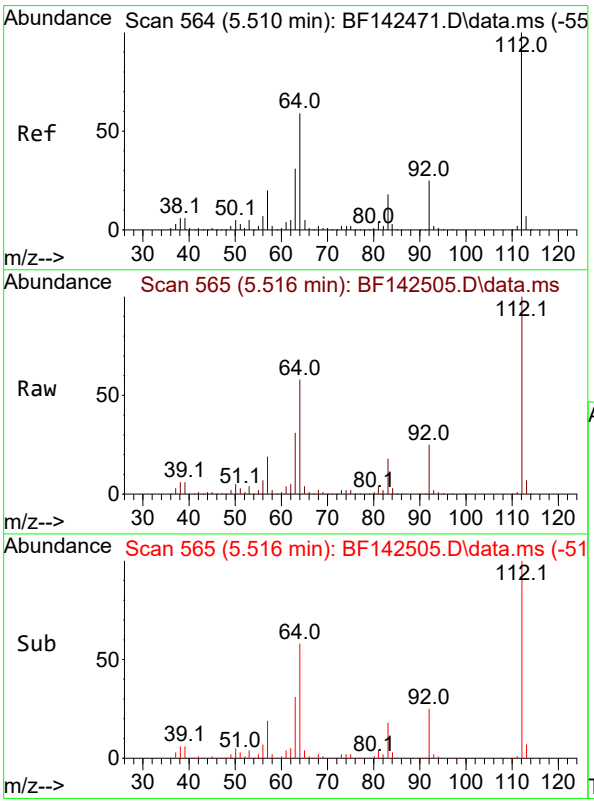
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Instrument :
BNA_F
ClientSampleId :
TP-38

Tgt Ion:152 Resp: 105231

Ion	Ratio	Lower	Upper
152	100		
150	152.0	128.2	192.4
115	57.9	48.3	72.5

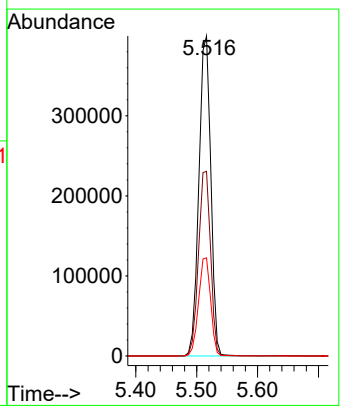


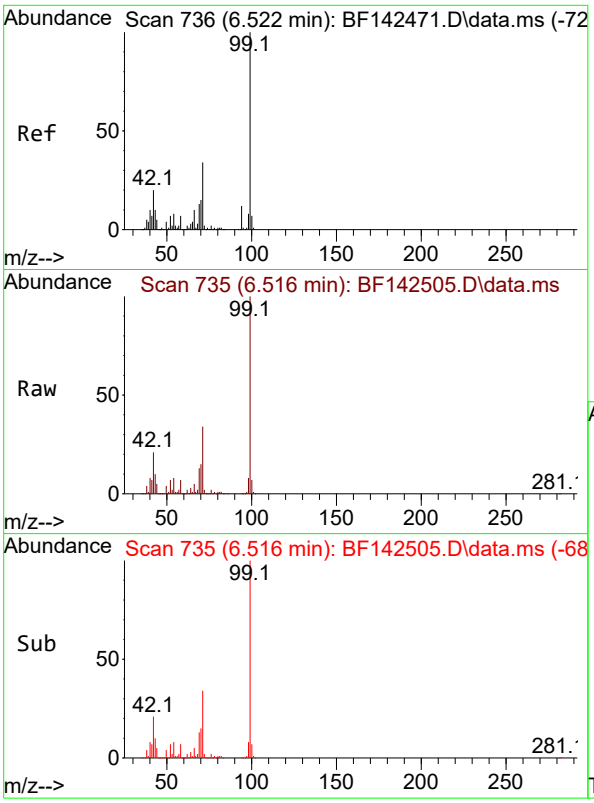


#5
2-Fluorophenol
Concen: 86.717 ng
RT: 5.516 min Scan# 565
Delta R.T. 0.000 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Tgt Ion:112 Resp: 541642

Ion	Ratio	Lower	Upper
112	100		
64	57.7	47.5	71.3
63	30.7	24.9	37.3



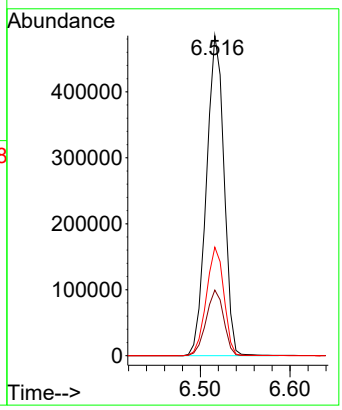


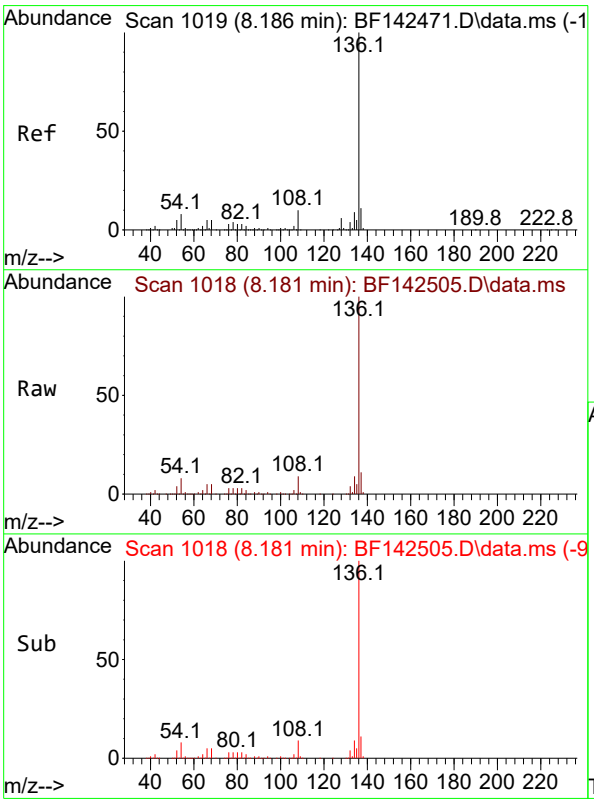
#7
Phenol-d6
Concen: 87.775 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Instrument :
BNA_F
ClientSampleId :
TP-38

Tgt Ion: 99 Resp: 659959

Ion	Ratio	Lower	Upper
99	100		
42	20.5	16.2	24.2
71	33.9	27.3	40.9

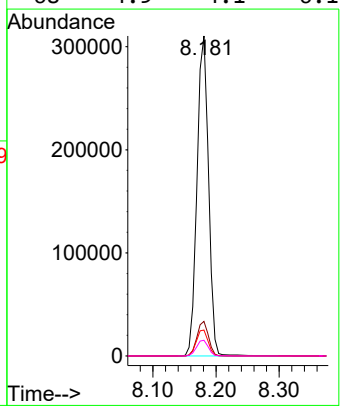


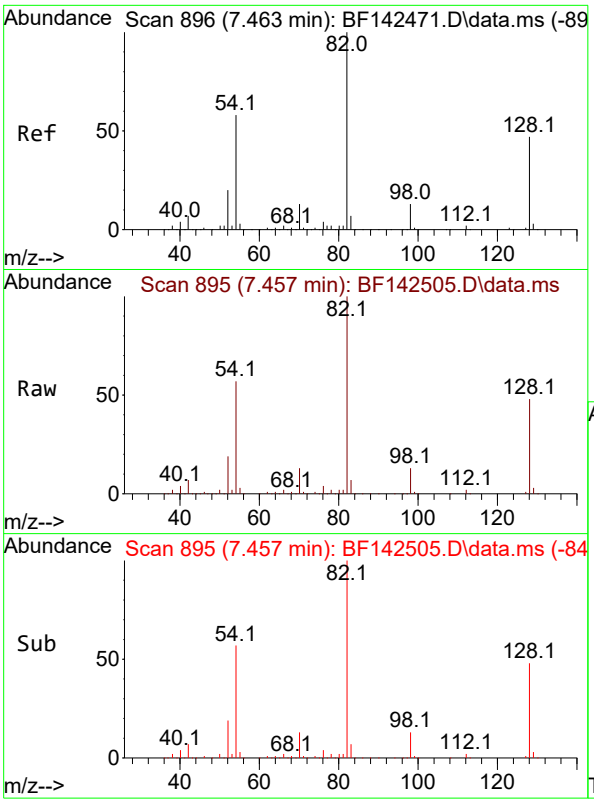


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Tgt Ion:136 Resp: 393023

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.1	6.6	10.0
68	4.9	4.1	6.1



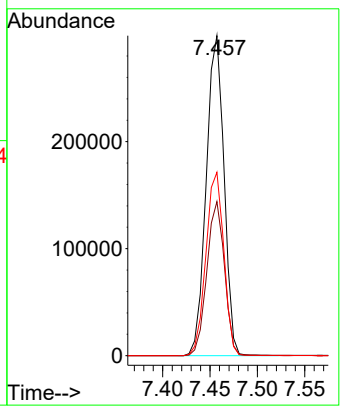


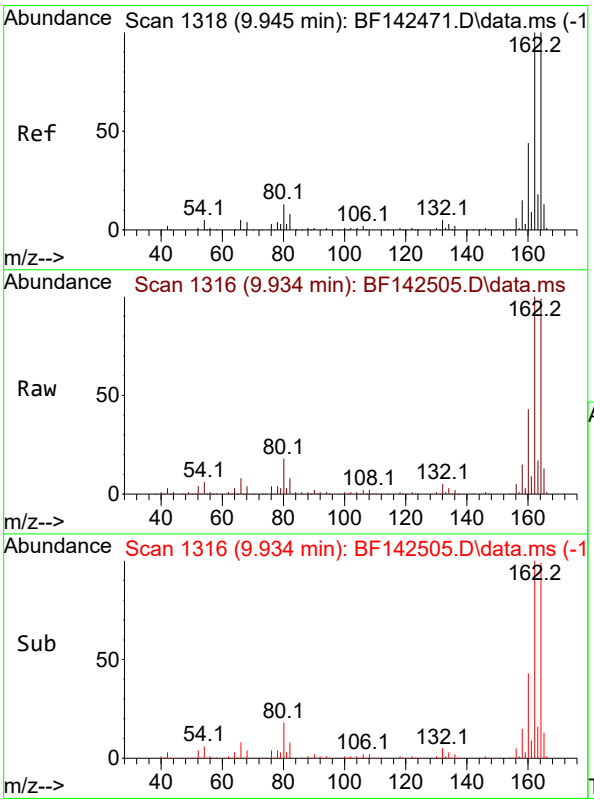
#23
Nitrobenzene-d5
Concen: 54.143 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Instrument :
BNA_F
ClientSampleId :
TP-38

Tgt Ion: 82 Resp: 390239

Ion	Ratio	Lower	Upper
82	100		
128	48.1	37.4	56.2
54	57.3	46.6	70.0

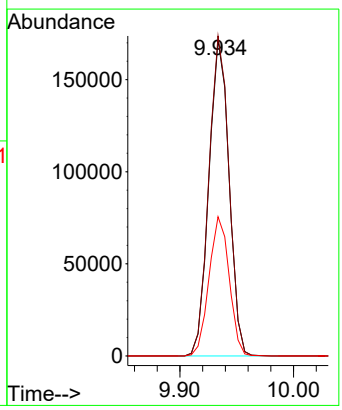


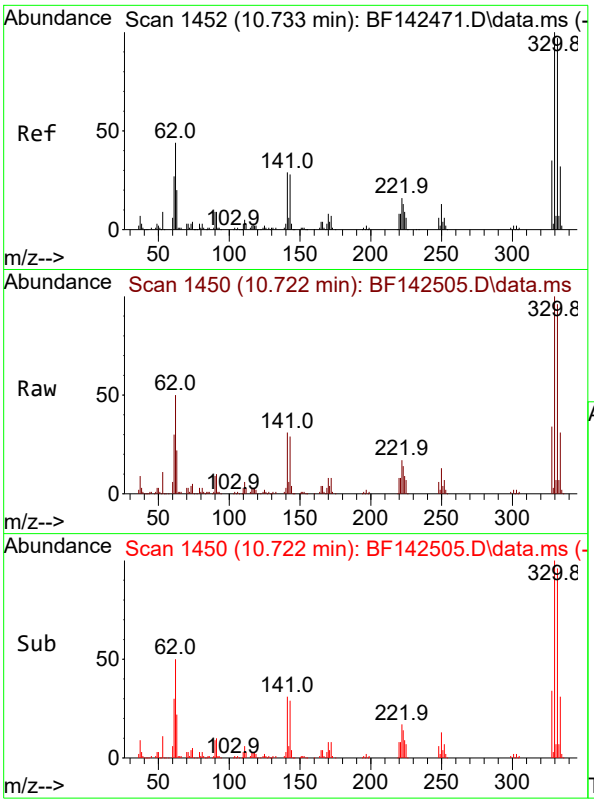


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.934 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Tgt Ion:164 Resp: 211306

Ion	Ratio	Lower	Upper
164	100		
162	101.3	80.2	120.4
160	44.0	35.6	53.4



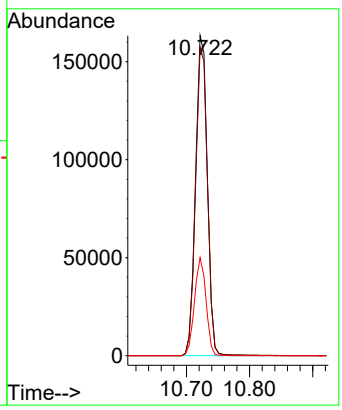


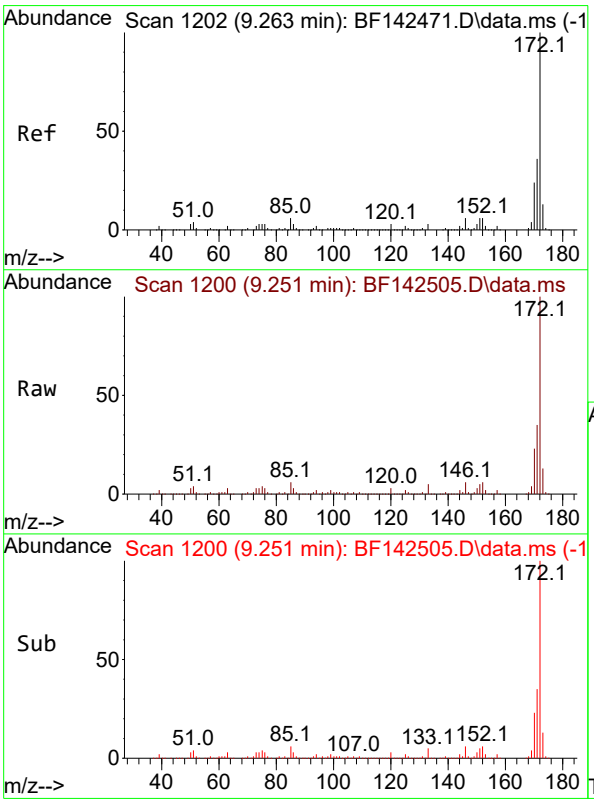
#42
2,4,6-Tribromophenol
Concen: 90.289 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Instrument :
BNA_F
ClientSampleId :
TP-38

Tgt Ion:330 Resp: 211748

Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.6	116.4
141	29.9	24.6	36.8

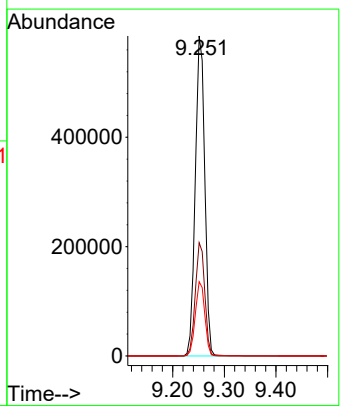


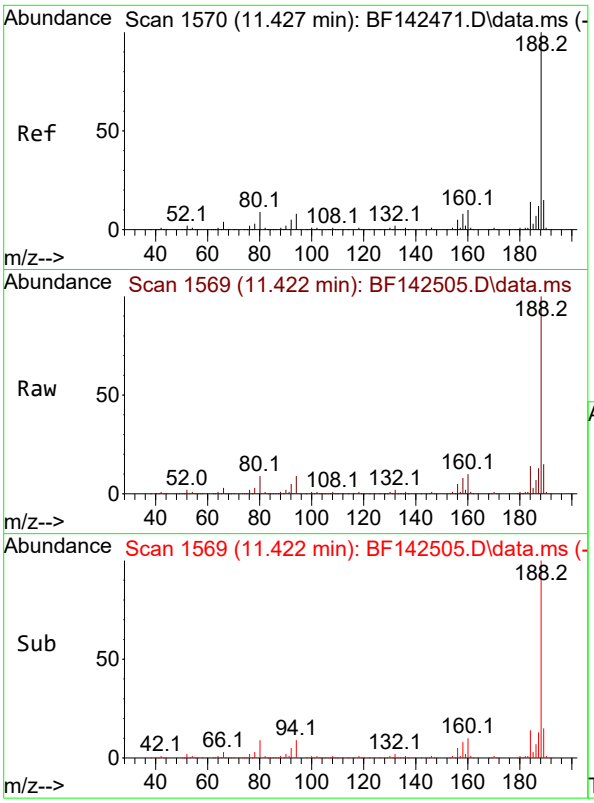


#45
2-Fluorobiphenyl
Concen: 47.375 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.017 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Tgt Ion:172 Resp: 746030

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	42.8
170	23.2	18.9	28.3



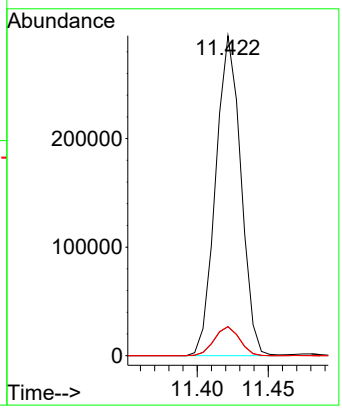


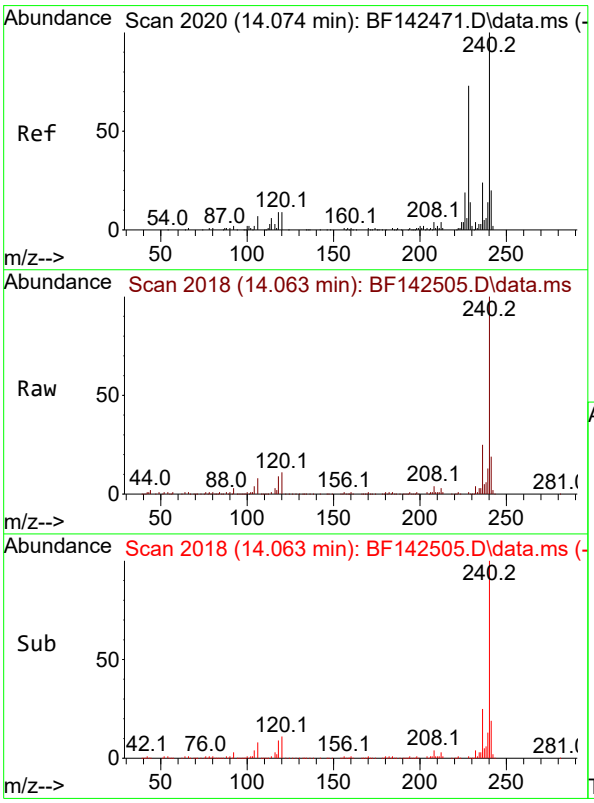
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Instrument :
BNA_F
ClientSampleId :
TP-38

Tgt Ion:188 Resp: 363178

Ion	Ratio	Lower	Upper
188	100		
94	9.0	6.6	10.0
80	9.1	7.4	11.0

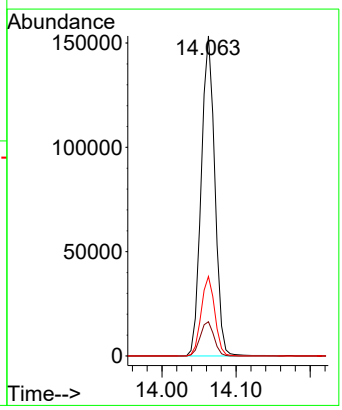


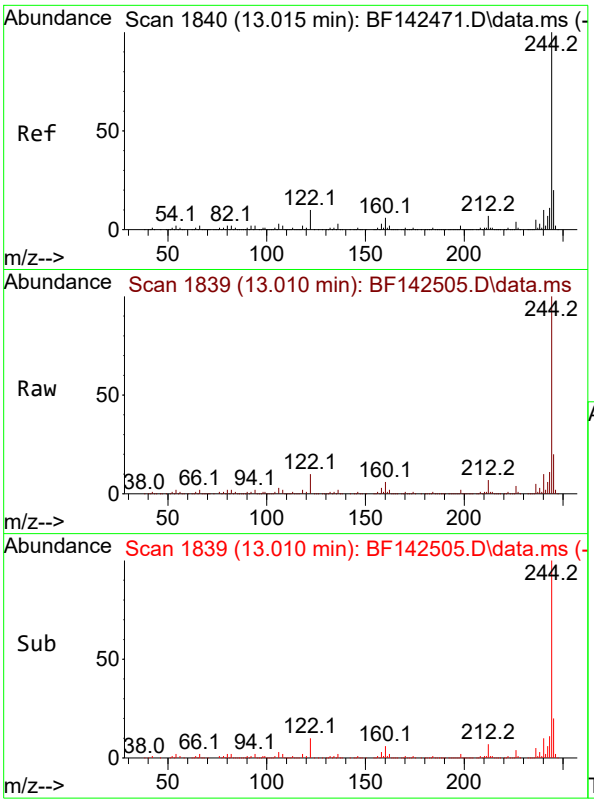


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Tgt Ion:240 Resp: 195335

Ion	Ratio	Lower	Upper
240	100		
120	10.7	7.5	11.3
236	24.9	19.6	29.4



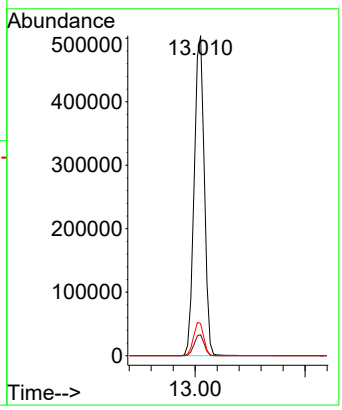


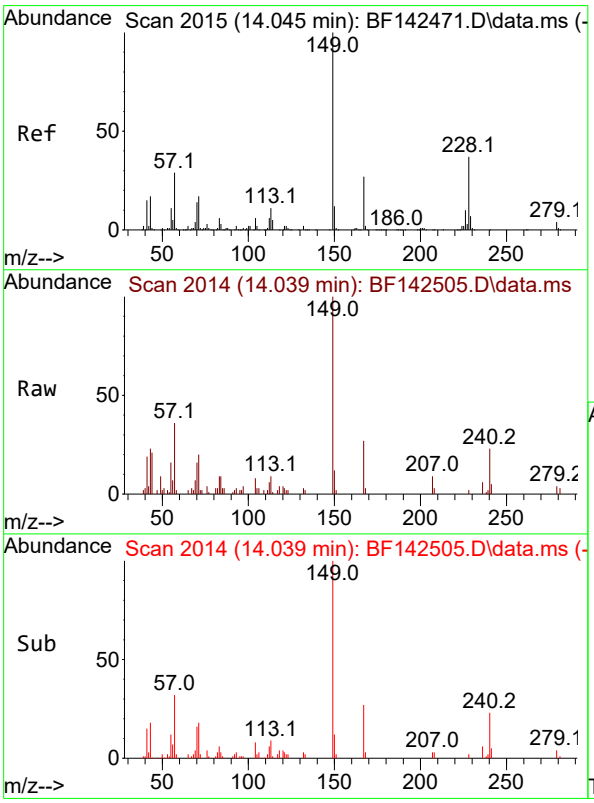
#79
Terphenyl-d14
Concen: 44.789 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Instrument :
BNA_F
ClientSampleId :
TP-38

Tgt Ion:244 Resp: 640217

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.3	7.9
122	10.0	8.2	12.2

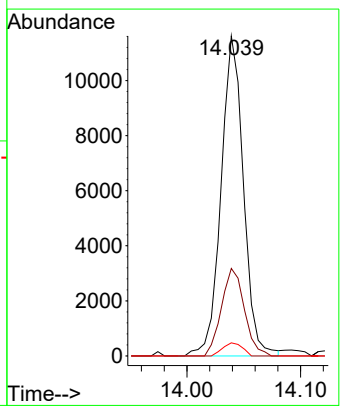


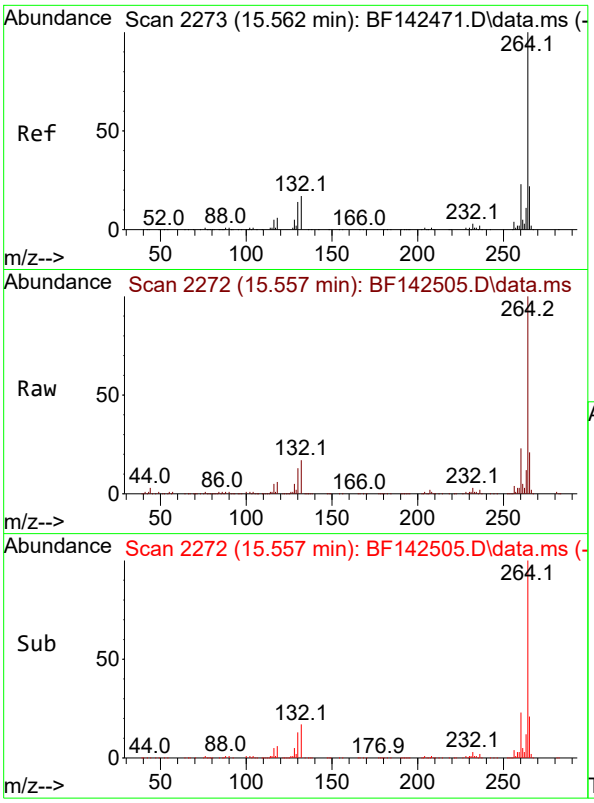


#84
Bis(2-ethylhexyl)phthalate
Concen: 2.469 ng
RT: 14.039 min Scan# 2014
Delta R.T. -0.012 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Tgt Ion:149 Resp: 15913

Ion	Ratio	Lower	Upper
149	100		
167	27.3	21.5	32.3
279	4.1	3.2	4.8



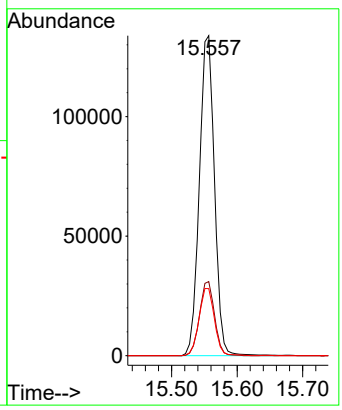


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Instrument :
BNA_F
ClientSampleId :
TP-38

Tgt Ion:264 Resp: 215007

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	28.0
265	21.0	17.7	26.5



Sample Results: **BF142505.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142505.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.116	487	497	505	rBV	145120	216940	10.38%	1.347%
2	5.516	558	565	570	rBV	1370620	1868576	89.44%	11.604%
3	6.516	729	735	747	rBV	1405806	1933860	92.56%	12.010%
4	6.898	794	800	805	rBV	476691	596304	28.54%	3.703%
5	7.457	888	895	900	rBV	917897	1198158	57.35%	7.441%
6	7.710	933	938	946	rVB	32605	41225	1.97%	0.256%
7	8.181	1012	1018	1033	rBV	610616	780360	37.35%	4.846%
8	8.392	1050	1054	1060	rVB	18149	22463	1.08%	0.140%
9	9.251	1195	1200	1205	rBV	1662941	2089292	100.00%	12.975%
10	9.934	1311	1316	1321	rBV	713571	878893	42.07%	5.458%
11	10.645	1432	1437	1445	rVB	213987	266543	12.76%	1.655%
12	10.722	1445	1450	1455	rBV	1196776	1520826	72.79%	9.445%
13	10.957	1483	1490	1495	rBV2	22016	28037	1.34%	0.174%
14	11.422	1564	1569	1576	rBV	710008	876220	41.94%	5.442%
15	11.945	1651	1658	1674	rBV	241410	392241	18.77%	2.436%
16	12.198	1697	1701	1708	rVB3	15235	21034	1.01%	0.131%
17	12.445	1734	1743	1750	rBV3	18398	44230	2.12%	0.275%
18	12.727	1786	1791	1801	rBV2	38787	70677	3.38%	0.439%
19	13.010	1833	1839	1844	rBV	1308027	1676428	80.24%	10.411%
20	13.198	1865	1871	1882	rBV	27123	52341	2.51%	0.325%
21	13.810	1969	1975	1985	rBV	29356	52415	2.51%	0.326%
22	13.904	1986	1991	2004	rBV	38993	86800	4.15%	0.539%
23	14.063	2009	2018	2028	rVB	404749	565321	27.06%	3.511%
24	14.316	2056	2061	2069	rBV	37229	60545	2.90%	0.376%
25	14.780	2134	2140	2145	rBV	35173	60506	2.90%	0.376%
26	14.921	2160	2164	2171	rVB2	16478	24562	1.18%	0.153%
27	15.286	2221	2226	2232	rVB	26821	47003	2.25%	0.292%
28	15.557	2265	2272	2281	rVB	349024	569631	27.26%	3.538%
29	15.845	2316	2321	2330	rVB	19602	38152	1.83%	0.237%
30	16.504	2429	2433	2438	rVB2	12455	22866	1.09%	0.142%

Sum of corrected areas: 16102449

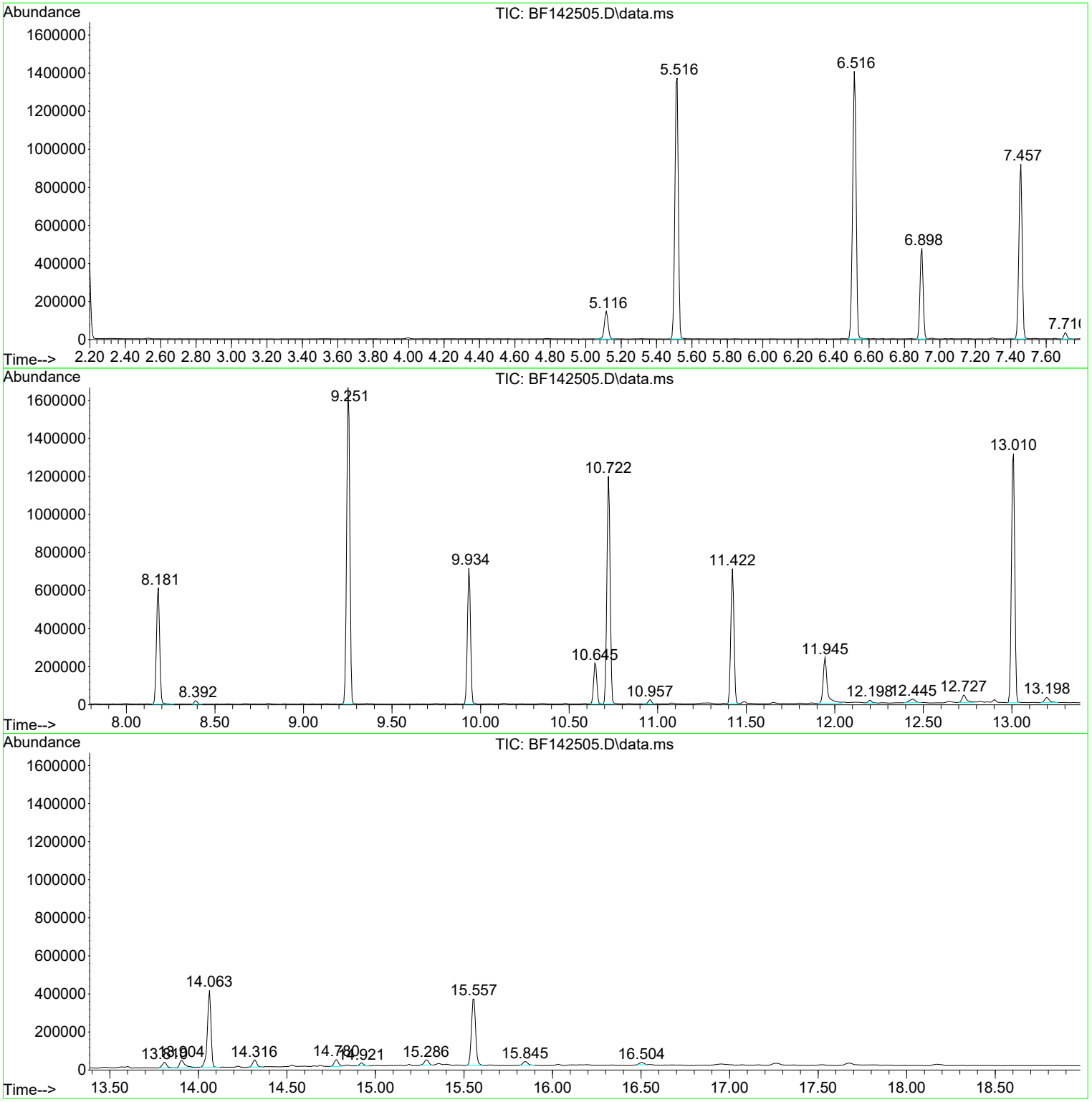
Sample Results: **BF142505.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Sample Results: **BF142505.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

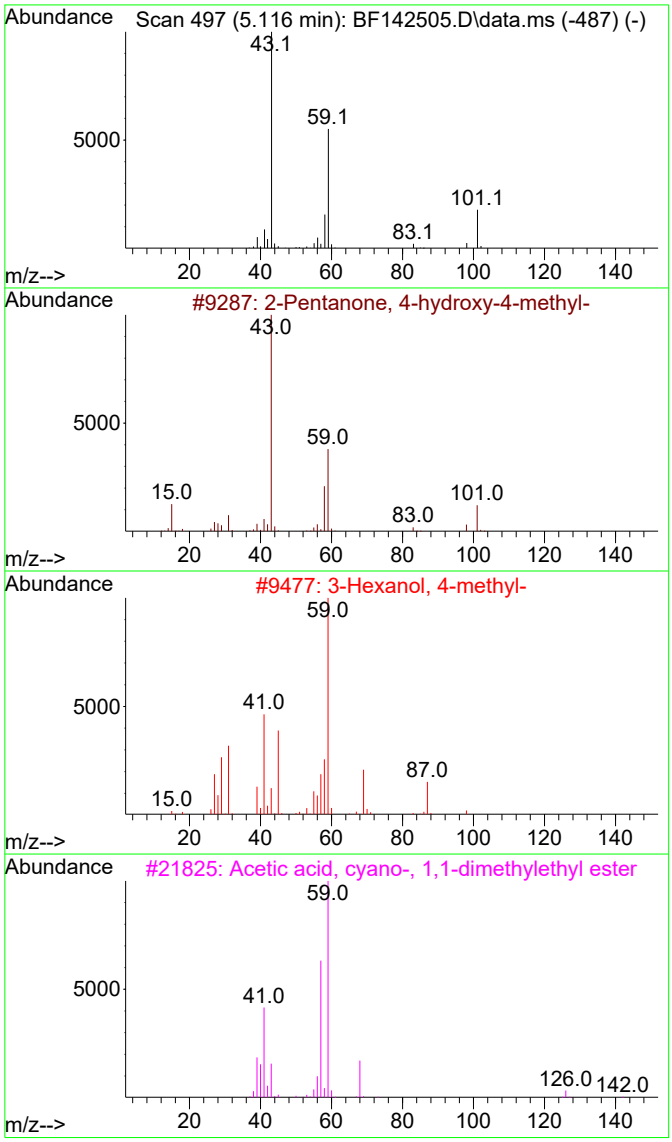
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

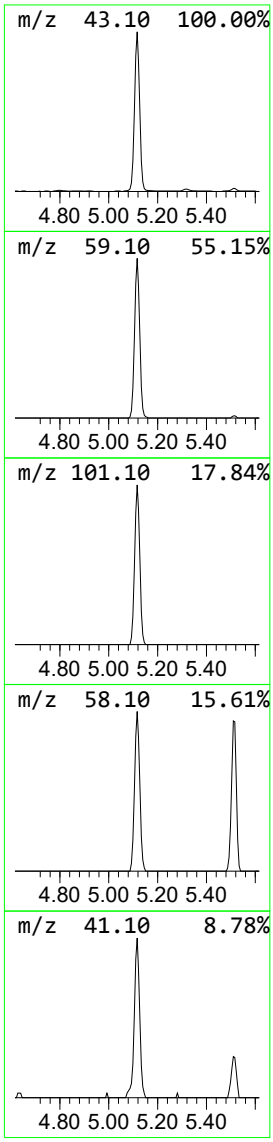
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	7.28 ng	216940	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

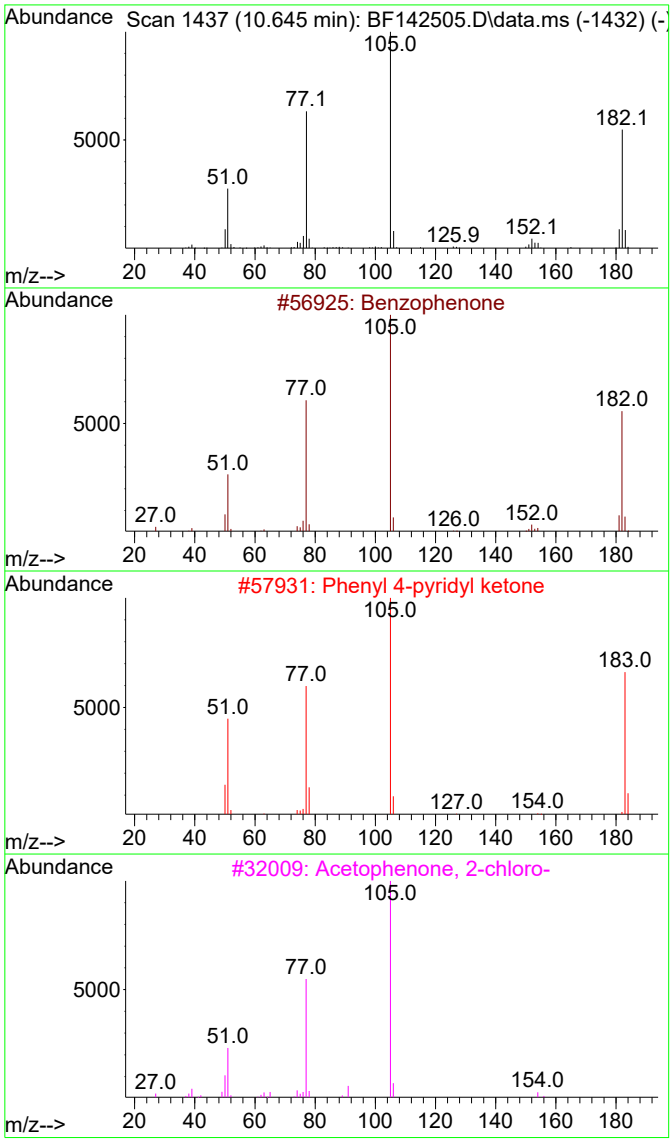
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

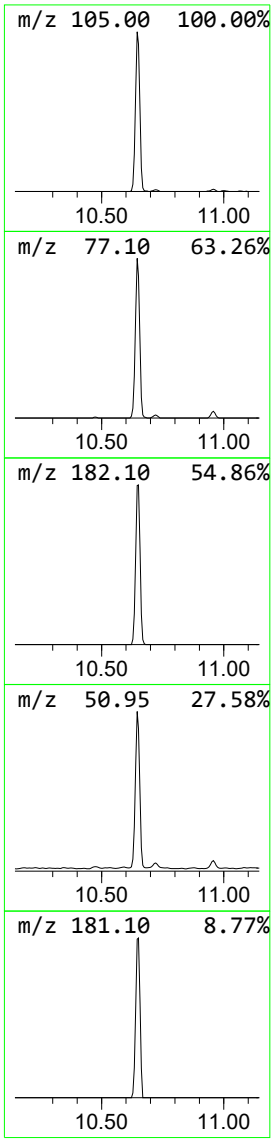
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	6.07 ng	266543	Acenaphthene-d10	9.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	50
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4	1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	47
5	Vinyl benzoate	148	C9H8O2	000769-78-8	47





Sample Results: **BF142505.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

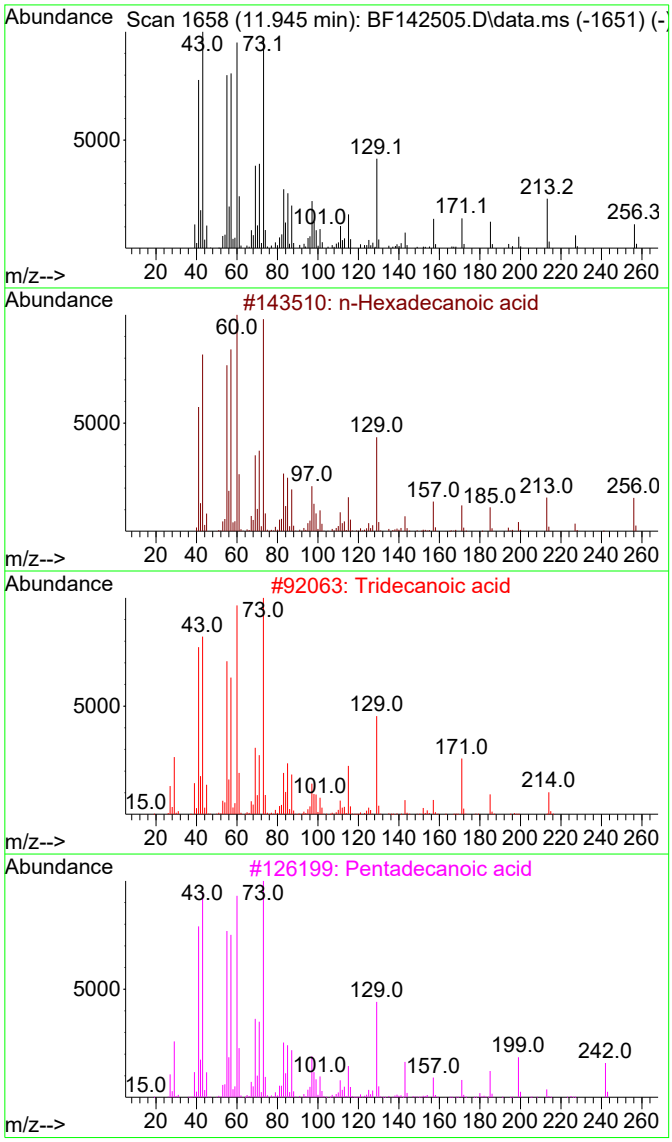
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

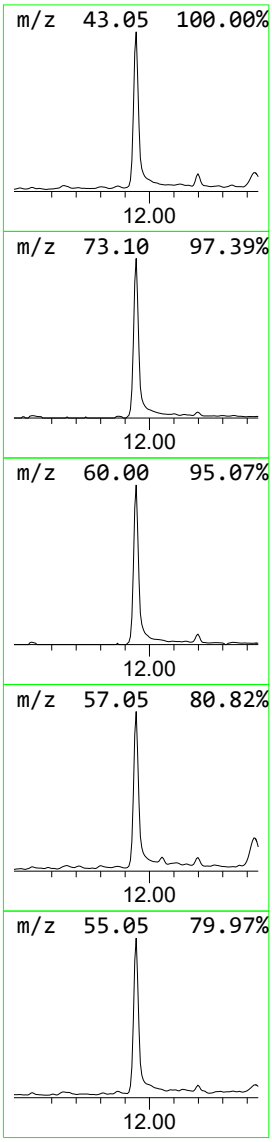
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 n-Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	8.95 ng	392241	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	93
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5	n-Decanoic acid	172	C10H20O2	000334-48-5	76





Sample Results: **BF142505.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

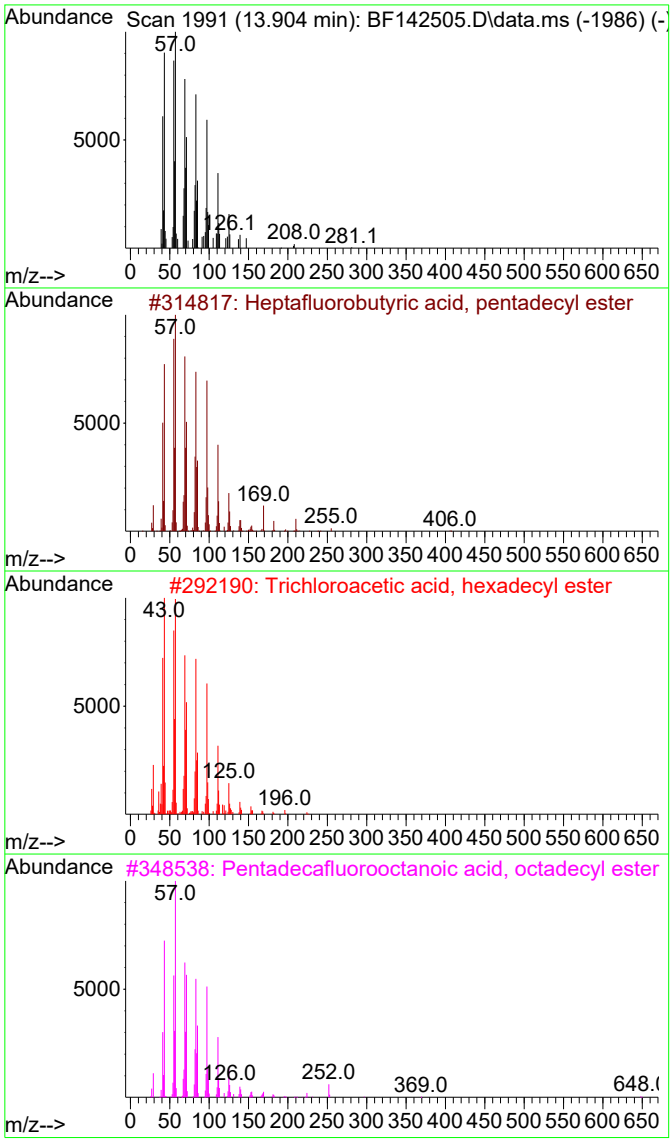
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

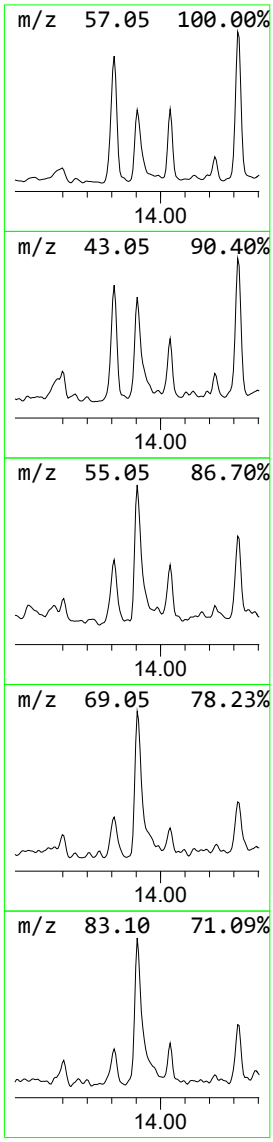
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	3.07 ng	86800	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	95
2	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	95
3	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	95
4	Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	94
5	Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

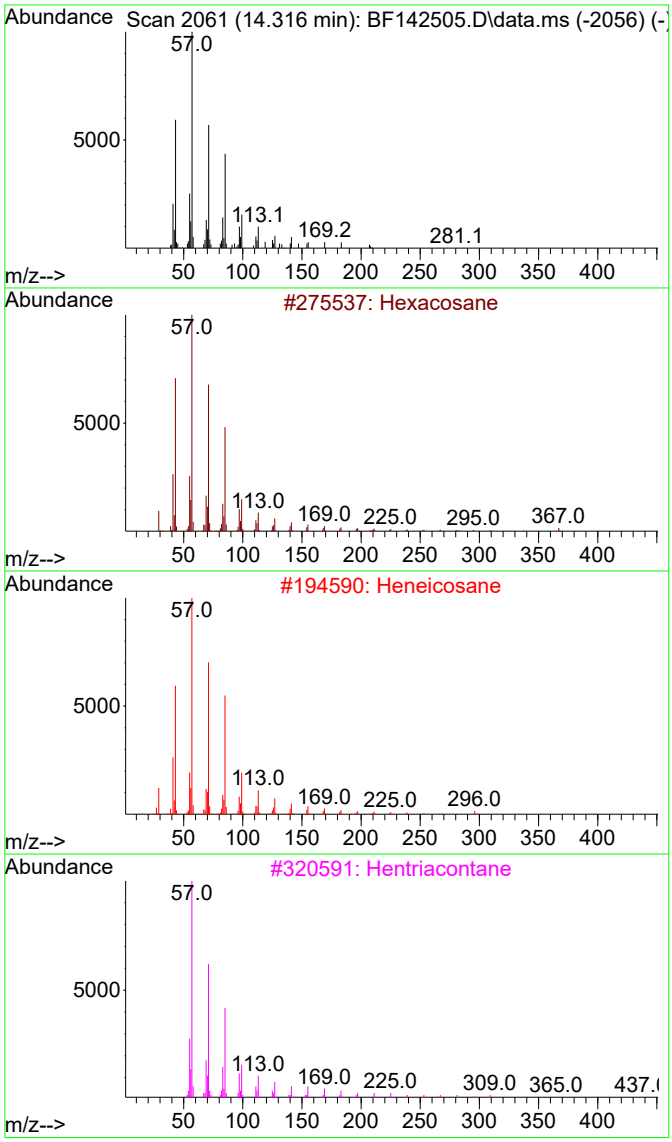
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

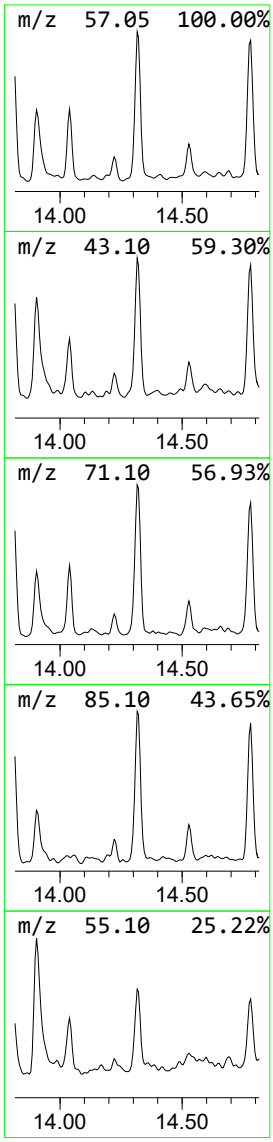
****

Peak Number 5 Hexacosane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.316	2.14 ng	60545	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexacosane	366	C26H54	000630-01-3	91
2	Heneicosane	296	C21H44	000629-94-7	91
3	Hentriacontane	437	C31H64	000630-04-6	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\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

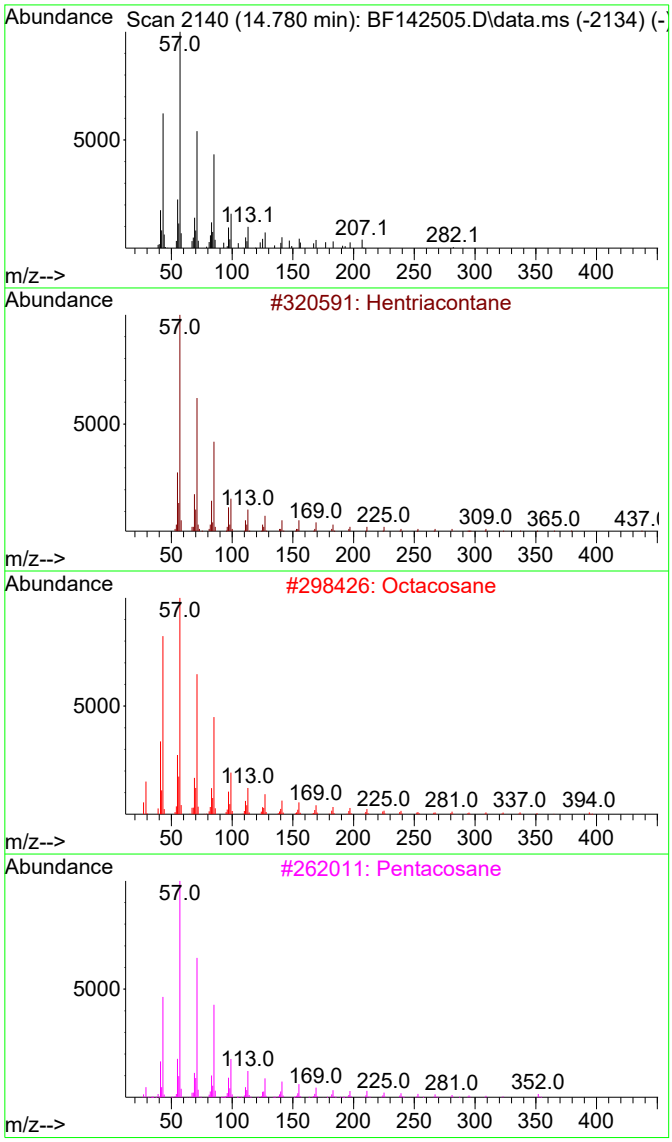
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

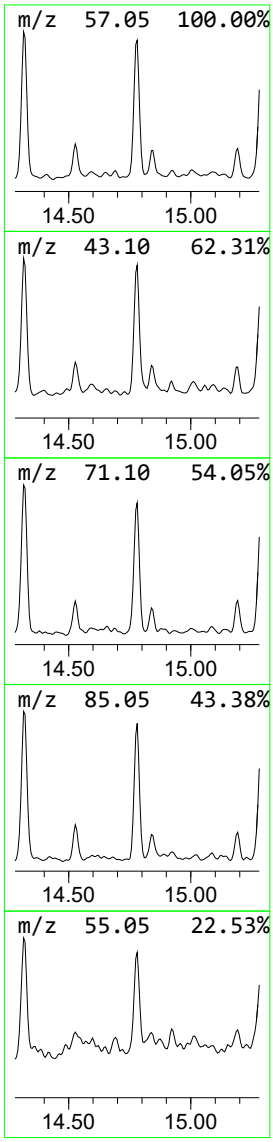
****

Peak Number 6 Hentriacontane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.780	2.14 ng	60506	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hentriacontane	437	C31H64	000630-04-6	94
2	Octacosane	394	C28H58	000630-02-4	91
3	Pentacosane	352	C25H52	000629-99-2	91
4	Hexacosane	366	C26H54	000630-01-3	91
5	Tetratetracontane	619	C44H90	007098-22-8	91





Sample Results: **BF142505.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.116	7.3	ng	216940	1	6.898	596304	20.0
Benzophenone	10.645	6.1	ng	266543	3	9.934	878893	20.0
n-Hexadecanoic ...	11.945	8.9	ng	392241	4	11.422	876220	20.0
Heptafluorobuty...	13.904	3.1	ng	86800	5	14.063	565321	20.0
Hexacosane	14.316	2.1	ng	60545	5	14.063	565321	20.0
Hentriacontane	14.780	2.1	ng	60506	5	14.063	565321	20.0

Raw Data: **BF142484.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.9
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
BF142484.D	1	05/20/25 09:45	05/21/25 13:40	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	380	ug/Kg
108-95-2	Phenol	25.7	U	25.7	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.2	U	28.2	200	ug/Kg
95-57-8	2-Chlorophenol	28.3	U	28.3	200	ug/Kg
95-48-7	2-Methylphenol	34.7	U	34.7	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.6	U	43.6	200	ug/Kg
98-86-2	Acetophenone	34.3	U	34.3	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.8	U	47.8	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.1	U	55.1	92.9	ug/Kg
67-72-1	Hexachloroethane	20.4	U	20.4	200	ug/Kg
98-95-3	Nitrobenzene	21.3	U	21.3	200	ug/Kg
78-59-1	Isophorone	38.1	U	38.1	200	ug/Kg
88-75-5	2-Nitrophenol	67.6	U	67.6	200	ug/Kg
105-67-9	2,4-Dimethylphenol	75.3	U	75.3	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.8	U	35.8	200	ug/Kg
120-83-2	2,4-Dichlorophenol	32.9	U	32.9	200	ug/Kg
91-20-3	Naphthalene	26.4	U	26.4	200	ug/Kg
106-47-8	4-Chloroaniline	41.1	U	41.1	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.4	U	29.4	200	ug/Kg
105-60-2	Caprolactam	60.5	U	60.5	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.3	U	33.3	200	ug/Kg
91-57-6	2-Methylnaphthalene	29.7	U	29.7	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.0	U	23.0	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.8	U	33.8	200	ug/Kg
92-52-4	1,1-Biphenyl	25.3	U	25.3	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.1	U	26.1	200	ug/Kg
88-74-4	2-Nitroaniline	55.9	U	55.9	200	ug/Kg
131-11-3	Dimethylphthalate	31.5	U	31.5	200	ug/Kg

Raw Data: **BF142484.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.9
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
BF142484.D	1	05/20/25 09:45	05/21/25 13:40	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.6	U	33.6	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.0	U	39.0	200	ug/Kg
99-09-2	3-Nitroaniline	53.4	U	53.4	200	ug/Kg
83-32-9	Acenaphthene	24.7	U	24.7	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	26.4	U	26.4	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	58.2	U	58.2	200	ug/Kg
84-66-2	Diethylphthalate	32.9	U	32.9	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.0	U	31.0	200	ug/Kg
86-73-7	Fluorene	29.4	U	29.4	200	ug/Kg
100-01-6	4-Nitroaniline	74.6	U	74.6	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.2	U	38.2	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.3	U	32.3	200	ug/Kg
118-74-1	Hexachlorobenzene	29.4	U	29.4	200	ug/Kg
1912-24-9	Atrazine	39.5	U	39.5	200	ug/Kg
87-86-5	Pentachlorophenol	59.6	U	59.6	380	ug/Kg
85-01-8	Phenanthrene	24.3	U	24.3	200	ug/Kg
120-12-7	Anthracene	38.7	U	38.7	200	ug/Kg
86-74-8	Carbazole	36.2	U	36.2	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.7	U	55.7	200	ug/Kg
206-44-0	Fluoranthene	34.9	U	34.9	200	ug/Kg
129-00-0	Pyrene	41.8	U	41.8	200	ug/Kg
85-68-7	Butylbenzylphthalate	83.0	U	83.0	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.6	U	42.6	380	ug/Kg
56-55-3	Benzo(a)anthracene	26.7	U	26.7	200	ug/Kg
218-01-9	Chrysene	23.1	U	23.1	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	68.8	U	68.8	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.1	U	22.1	200	ug/Kg

Raw Data: **BF142484.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.9
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
BF142484.D	1	05/20/25 09:45	05/21/25 13:40	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.0	U	26.0	200	ug/Kg
50-32-8	Benzo(a)pyrene	34.3	U	34.3	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.8	U	33.8	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.8	U	31.8	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.9	U	29.9	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.7	U	29.7	200	ug/Kg
123-91-1	1,4-Dioxane	52.5	U	52.5	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.8	U	31.8	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	79.4		18 - 112	53%	SPK: 150
13127-88-3	Phenol-d6	81.2		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	47.0		18 - 107	47%	SPK: 100
321-60-8	2-Fluorobiphenyl	45.8		20 - 109	46%	SPK: 100
118-79-6	2,4,6-Tribromophenol	83.0		10 - 116	55%	SPK: 150
1718-51-0	Terphenyl-d14	35.3		10 - 105	35%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	68500	6.898			
1146-65-2	Naphthalene-d8	265000	8.181			
15067-26-2	Acenaphthene-d10	144000	9.933			
1517-22-2	Phenanthrene-d10	270000	11.421			
1719-03-5	Chrysene-d12	248000	14.068			
1520-96-3	Perylene-d12	223000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	240	AB		5.09	ug/Kg
000119-61-9	Benzophenone	190	J		10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	180	J		11.9	ug/Kg
018835-33-1	1-Hexacosene	140	J		13.9	ug/Kg

Raw Data: **BF142484.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.9
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
BF142484.D	1	05/20/25 09:45	05/21/25 13:40	PB168083

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\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

Quant Time: May 21 14:38:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

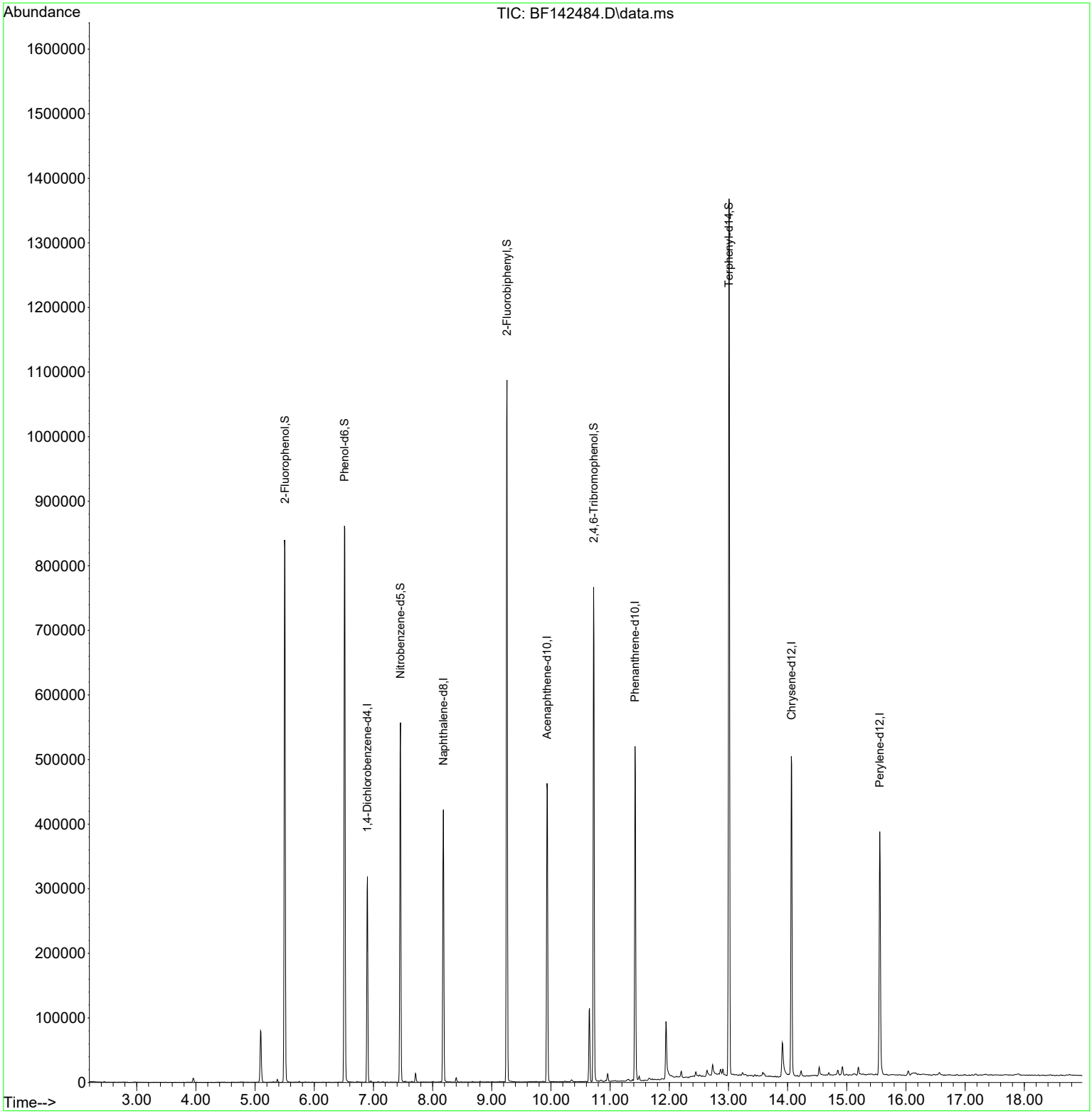
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	68503	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	265449	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	143783	20.000	ng	-0.01
64) Phenanthrene-d10	11.421	188	270138	20.000	ng	-0.01
76) Chrysene-d12	14.068	240	248278	20.000	ng	0.00
86) Perylene-d12	15.557	264	222913	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	322674	79.358	ng	-0.01
7) Phenol-d6	6.510	99	397670	81.247	ng	-0.02
23) Nitrobenzene-d5	7.457	82	228983	47.038	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	132464	83.007	ng	-0.02
45) 2-Fluorobiphenyl	9.257	172	491232	45.844	ng	-0.01
79) Terphenyl-d14	13.010	244	641662	35.318	ng	0.00
Target Compounds						Qvalue

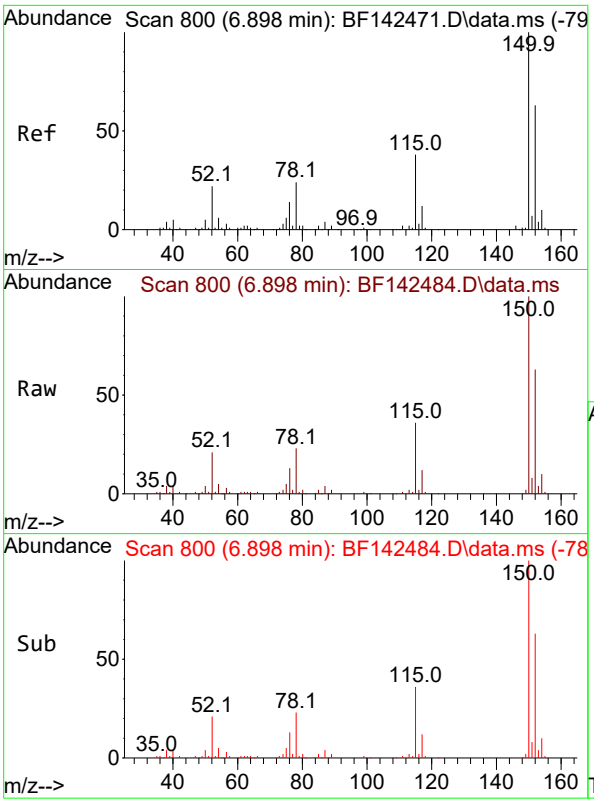
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

Quant Time: May 21 14:38:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



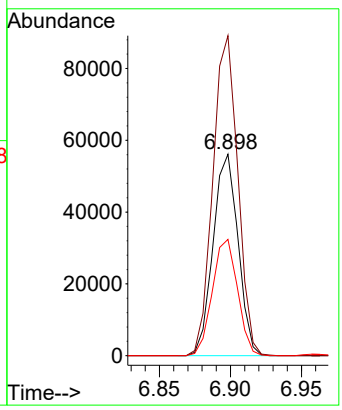


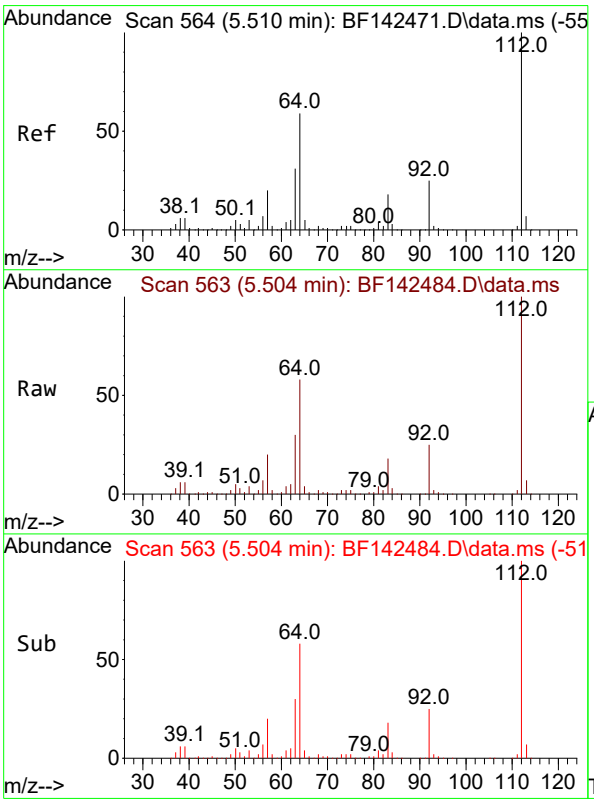
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Instrument :
BNA_F
ClientSampleId :
TP-19

Tgt Ion:152 Resp: 68503

Ion	Ratio	Lower	Upper
152	100		
150	158.8	128.2	192.4
115	57.7	48.3	72.5

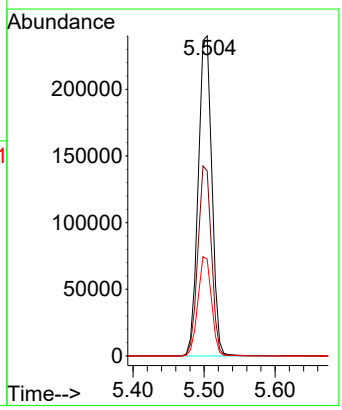


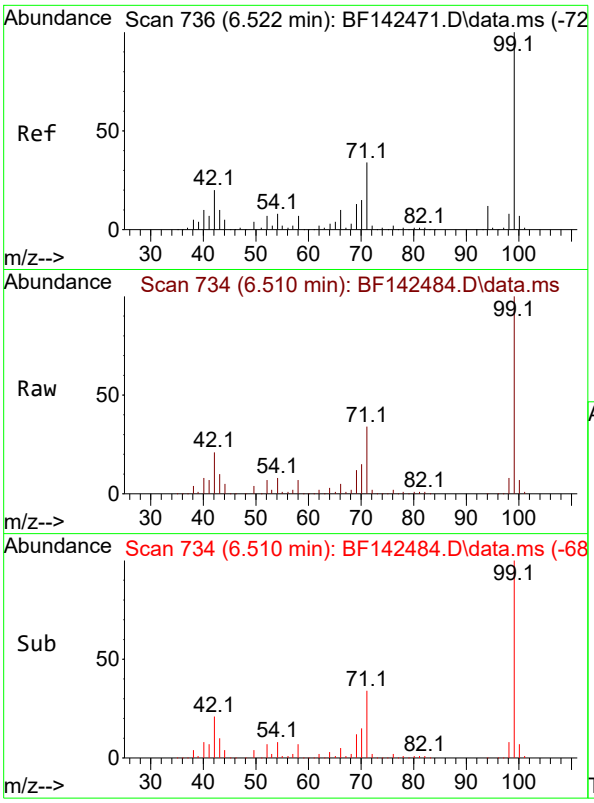


#5
2-Fluorophenol
Concen: 79.358 ng
RT: 5.504 min Scan# 563
Delta R.T. -0.012 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Tgt Ion:112 Resp: 322674

Ion	Ratio	Lower	Upper
112	100		
64	57.9	47.5	71.3
63	30.3	24.9	37.3



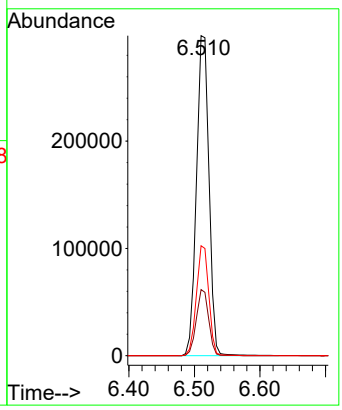


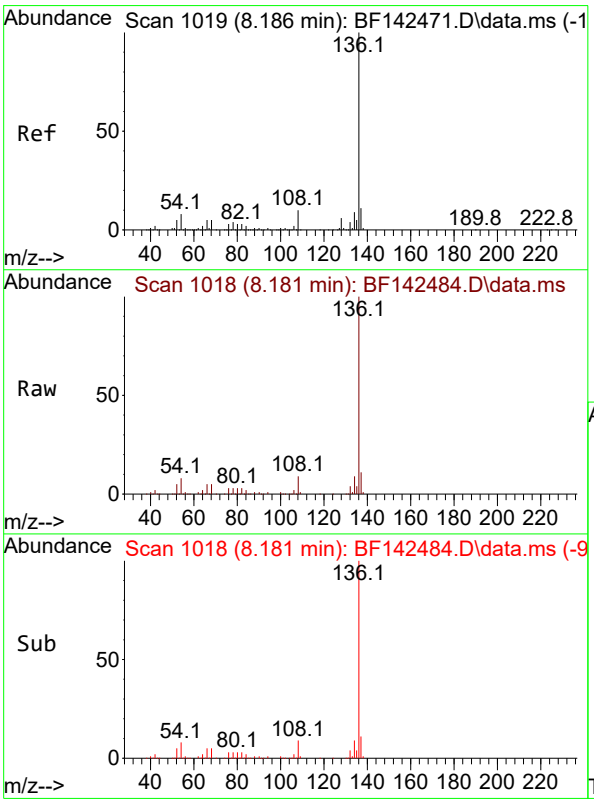
#7
Phenol-d6
Concen: 81.247 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.023 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Instrument :
BNA_F
ClientSampleId :
TP-19

Tgt Ion: 99 Resp: 397670

Ion	Ratio	Lower	Upper
99	100		
42	20.6	16.2	24.2
71	34.3	27.3	40.9

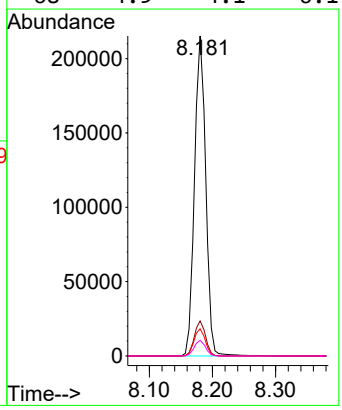


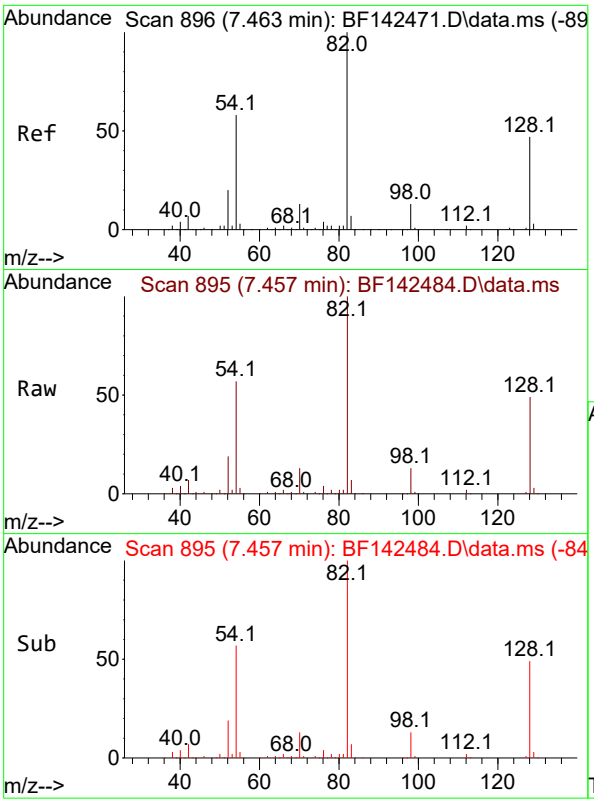


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Tgt Ion:136 Resp: 265449

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.5	6.6	10.0
68	4.9	4.1	6.1



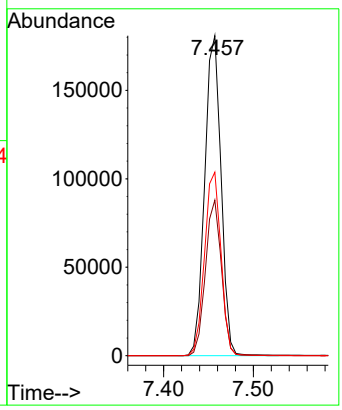


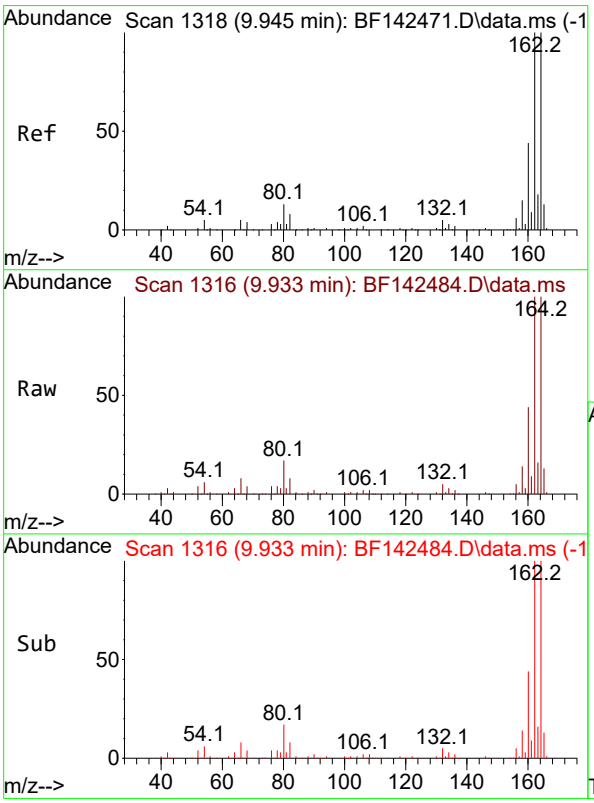
#23
Nitrobenzene-d5
Concen: 47.038 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Instrument :
BNA_F
ClientSampleId :
TP-19

Tgt Ion: 82 Resp: 228983

Ion	Ratio	Lower	Upper
82	100		
128	48.6	37.4	56.2
54	57.4	46.6	70.0

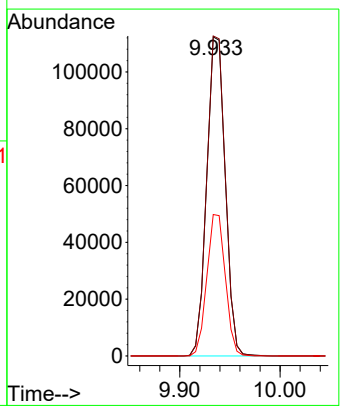


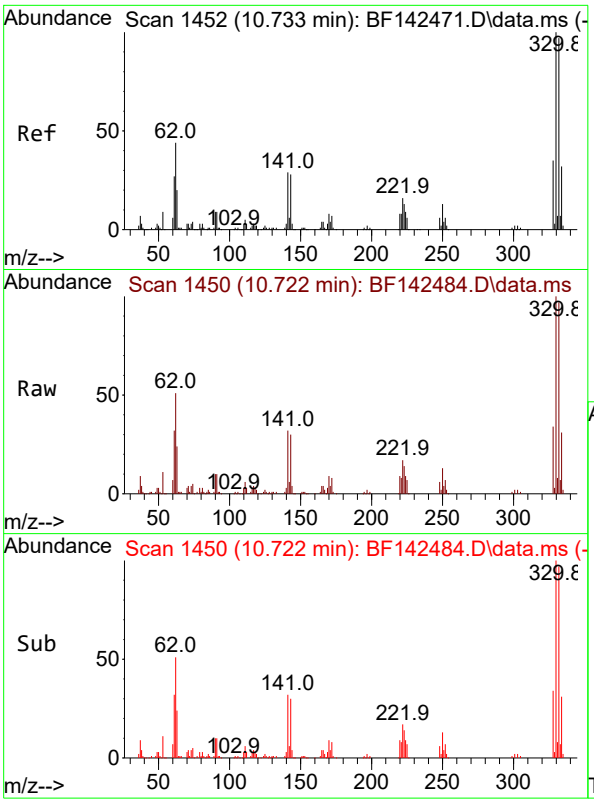


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Tgt Ion:164 Resp: 143783

Ion	Ratio	Lower	Upper
164	100		
162	100.3	80.2	120.4
160	44.3	35.6	53.4



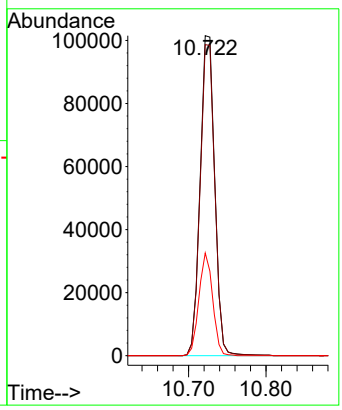


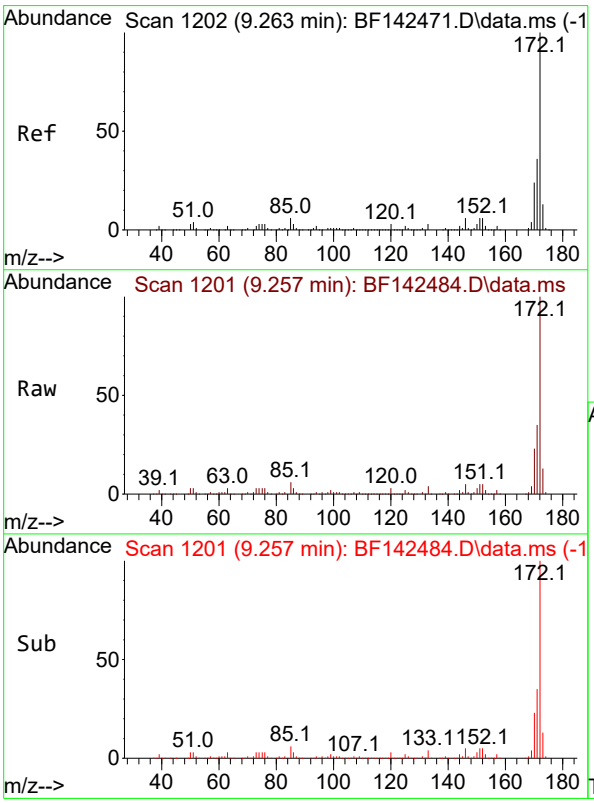
#42
2,4,6-Tribromophenol
Concen: 83.007 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Instrument :
BNA_F
ClientSampleId :
TP-19

Tgt Ion:330 Resp: 132464

Ion	Ratio	Lower	Upper
330	100		
332	97.6	77.6	116.4
141	30.3	24.6	36.8

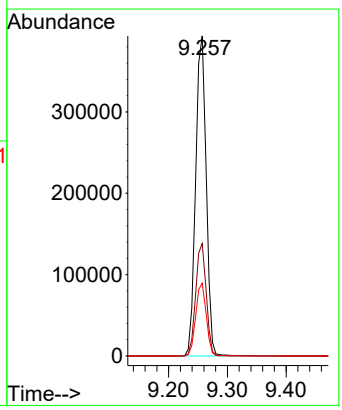


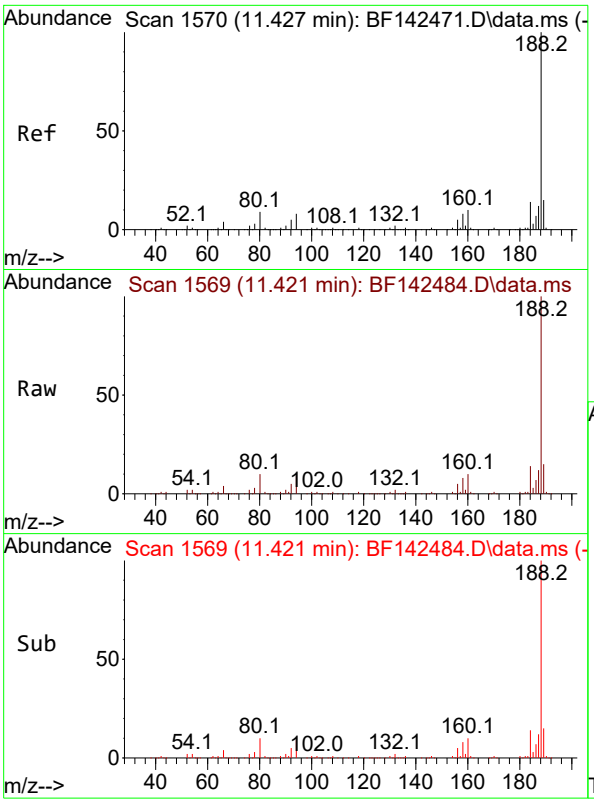


#45
2-Fluorobiphenyl
Concen: 45.844 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Tgt Ion:172 Resp: 491232

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.6	42.8
170	22.7	18.9	28.3



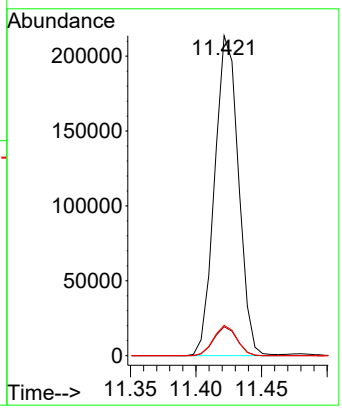


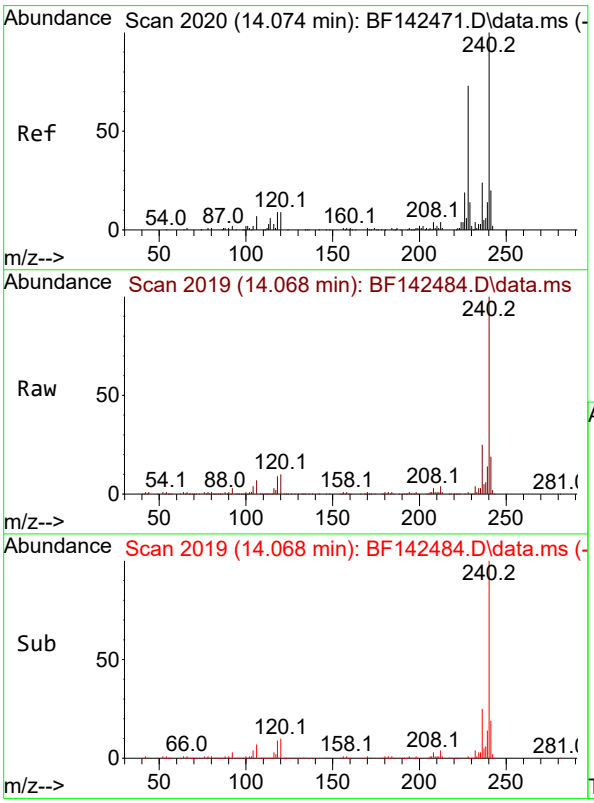
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.421 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Instrument :
BNA_F
ClientSampleId :
TP-19

Tgt Ion:188 Resp: 270138

Ion	Ratio	Lower	Upper
188	100		
94	9.0	6.6	10.0
80	9.5	7.4	11.0

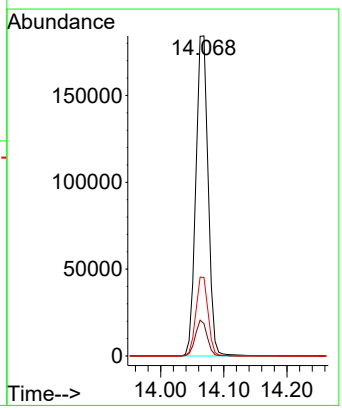


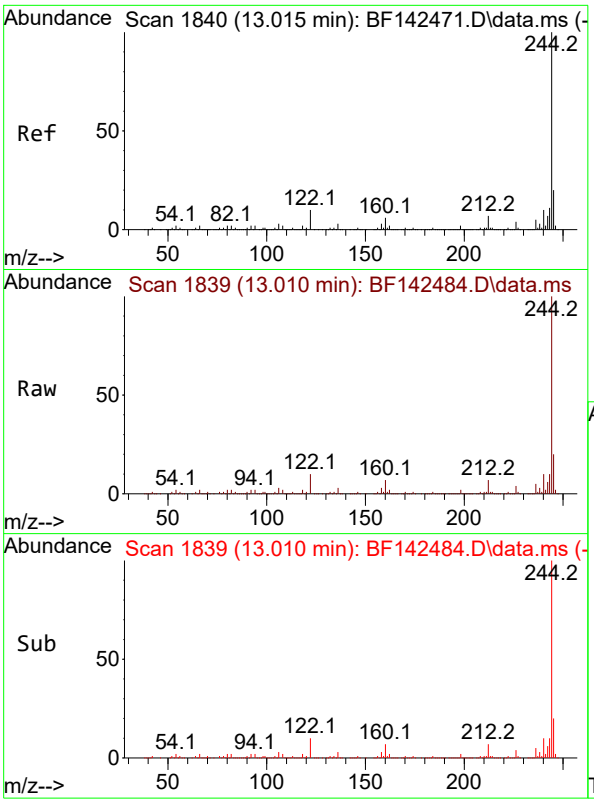


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Tgt Ion:240 Resp: 248278

Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.5	11.3
236	24.6	19.6	29.4



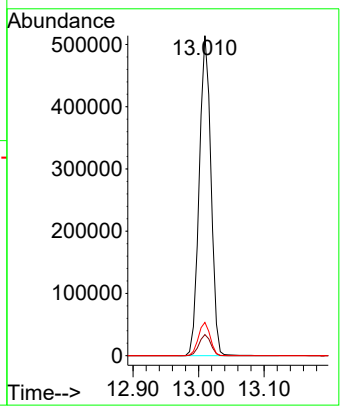


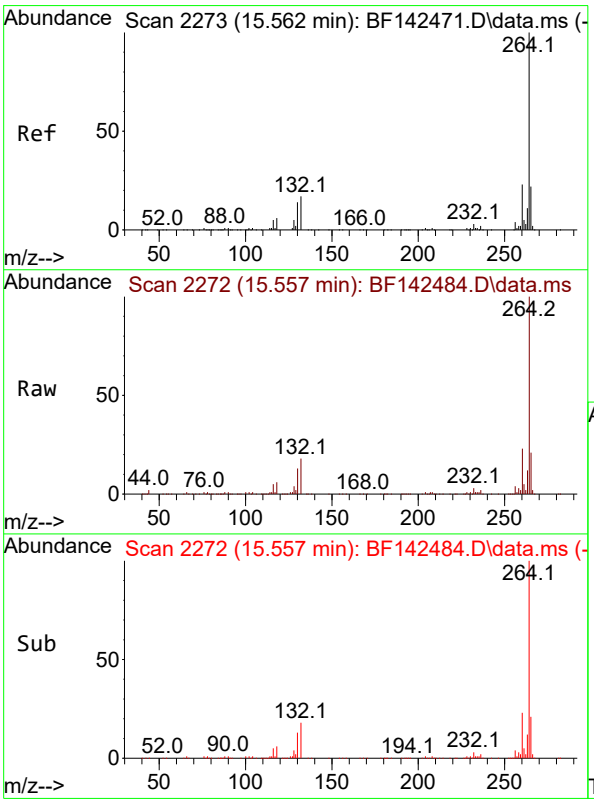
#79
Terphenyl-d14
Concen: 35.318 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Instrument :
BNA_F
ClientSampleId :
TP-19

Tgt Ion:244 Resp: 641662

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.3	7.9
122	10.4	8.2	12.2

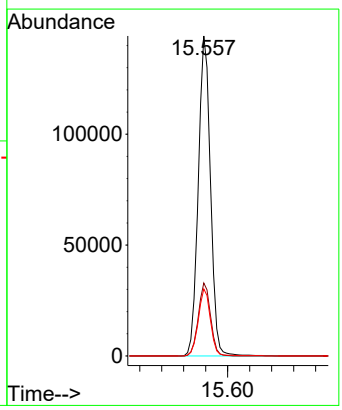




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Tgt Ion:264 Resp: 222913

Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.6	28.0
265	21.0	17.7	26.5



Sample Results: **BF142484.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142484.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.092	486	493	503	rBV	79834	119776	7.10%	1.084%
2	5.498	556	562	568	rBV	839777	1124606	66.66%	10.182%
3	6.510	729	734	745	rBV	860846	1153682	68.38%	10.445%
4	6.898	795	800	805	rBV	318176	390414	23.14%	3.535%
5	7.457	889	895	900	rBV	556772	700173	41.50%	6.339%
6	7.710	935	938	944	rBV	13497	17261	1.02%	0.156%
7	8.181	1013	1018	1031	rBV	421477	514991	30.53%	4.662%
8	9.257	1195	1201	1206	rBV	1086599	1356869	80.43%	12.284%
9	9.933	1311	1316	1322	rBV	462092	587194	34.80%	5.316%
10	10.651	1433	1438	1445	rBV	113414	143288	8.49%	1.297%
11	10.722	1445	1450	1461	rBV	765428	962535	57.05%	8.714%
12	11.421	1564	1569	1576	rBV	517502	656874	38.94%	5.947%
13	11.945	1653	1658	1672	rBV2	88955	152975	9.07%	1.385%
14	12.639	1771	1776	1784	rBV	9350	19522	1.16%	0.177%
15	12.733	1788	1792	1805	rVV6	16135	33130	1.96%	0.300%
16	13.010	1834	1839	1844	rBV	1356715	1687103	100.00%	15.274%
17	13.910	1987	1992	2007	rBV	52213	117217	6.95%	1.061%
18	14.063	2013	2018	2030	rVB	494788	666613	39.51%	6.035%
19	14.533	2094	2098	2104	rBV	13185	19792	1.17%	0.179%
20	14.927	2161	2165	2170	rVB	12768	18236	1.08%	0.165%
21	15.198	2206	2211	2215	rBV	12391	18797	1.11%	0.170%
22	15.557	2266	2272	2287	rBV	377084	584375	34.64%	5.291%

Sum of corrected areas: 11045423

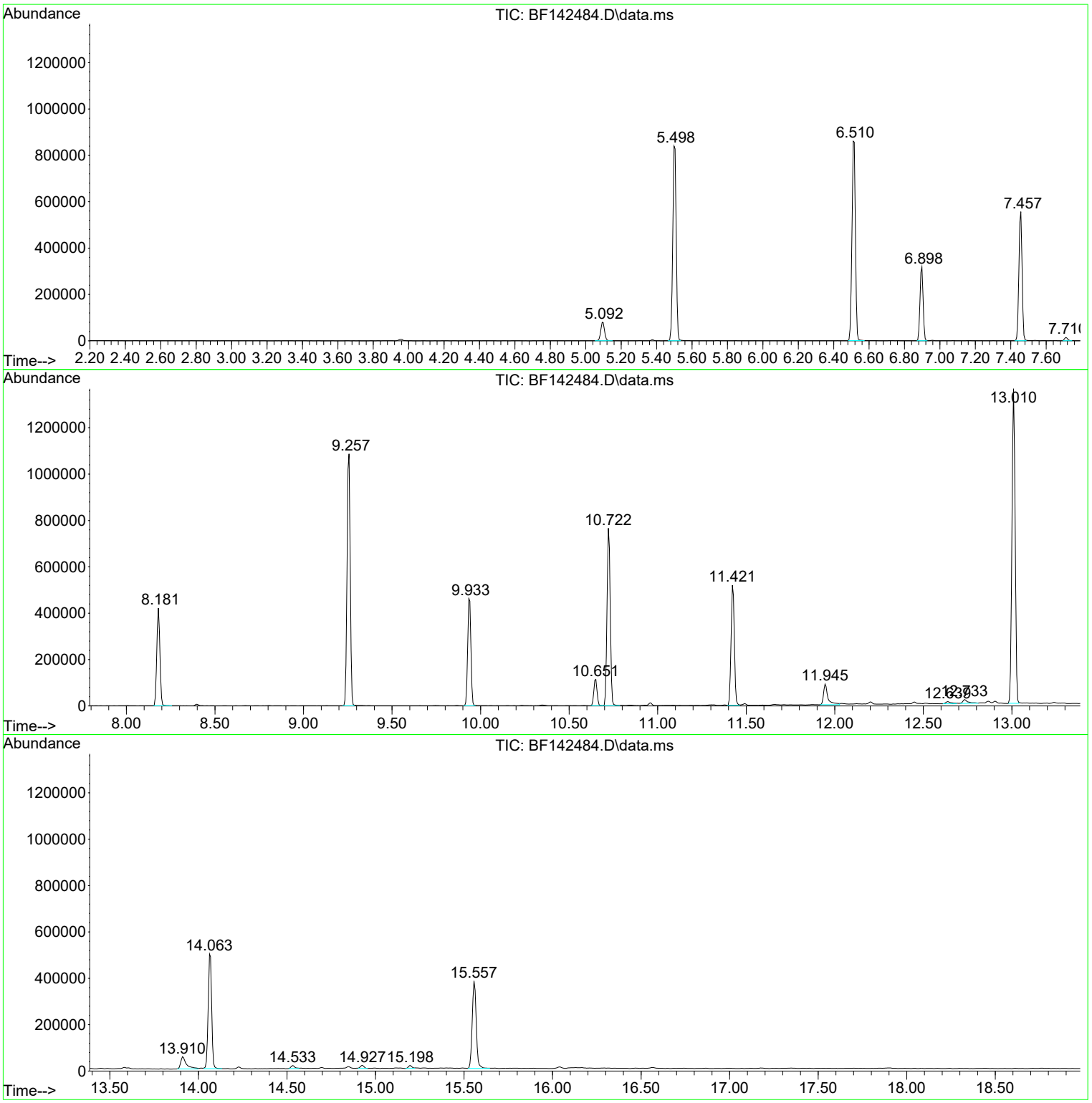
Sample Results: **BF142484.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Sample Results: **BF142484.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

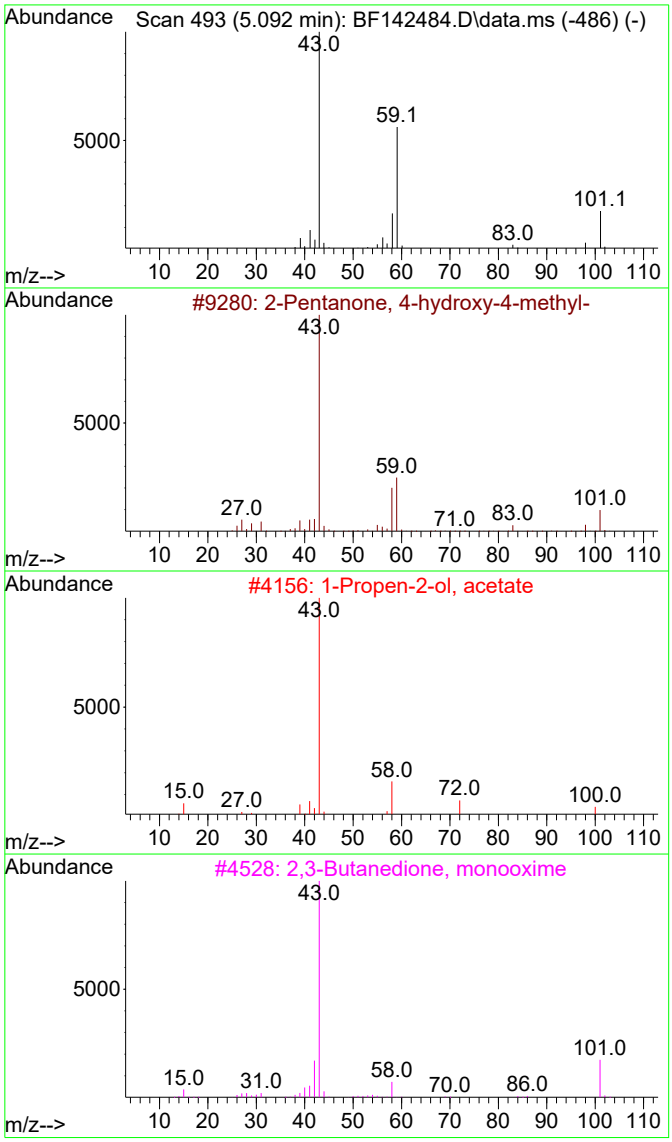
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

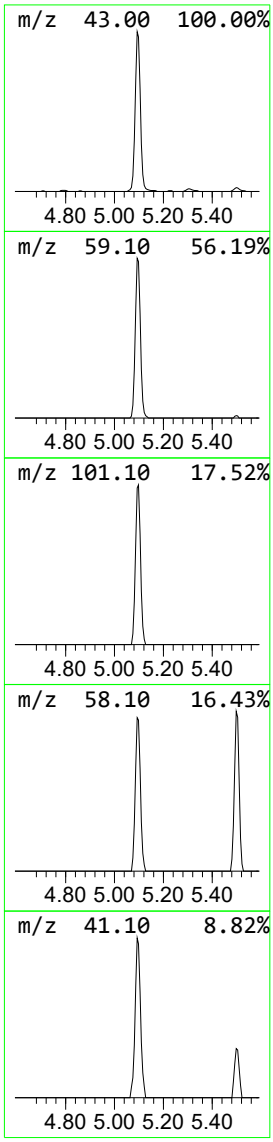
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.092	6.14 ng	119776	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	10
4	4-Penten-2-one, 4-methyl-	98	C6H10O	003744-02-3	9
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Sample Results: **BF142484.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

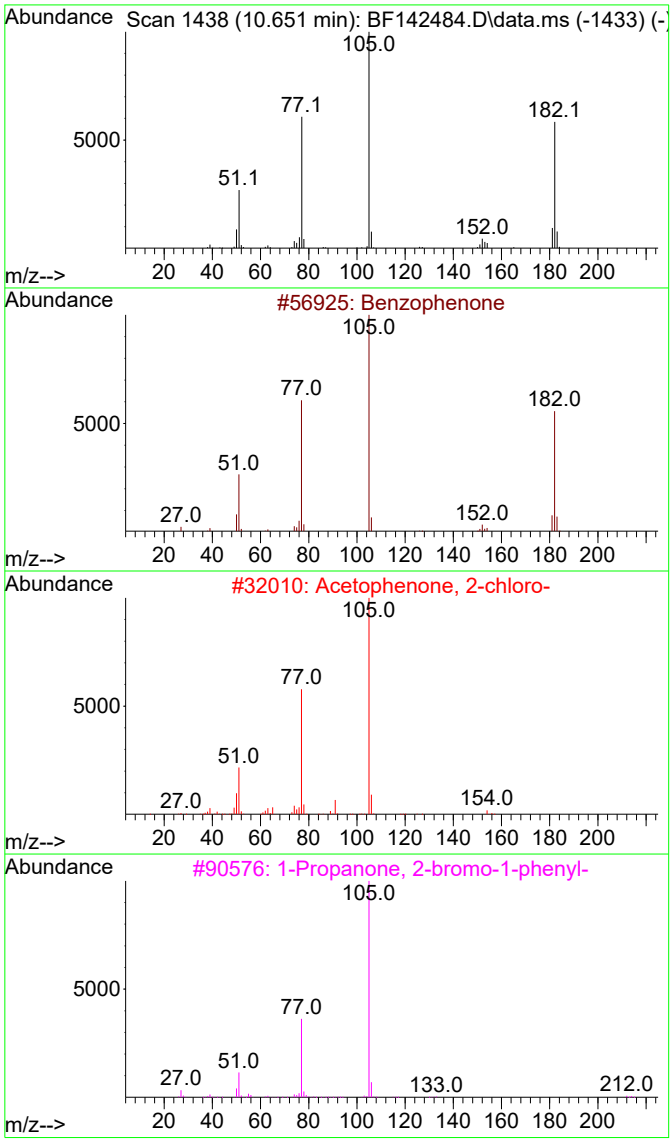
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

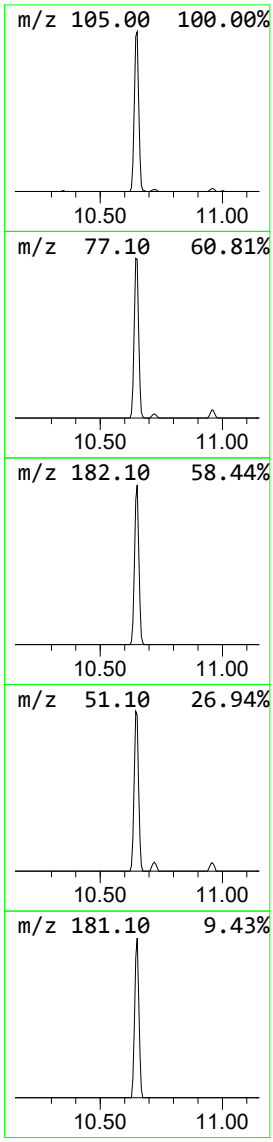
****

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	4.88 ng	143288	Acenaphthene-d10	9.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
3	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47
4	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	47
5	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

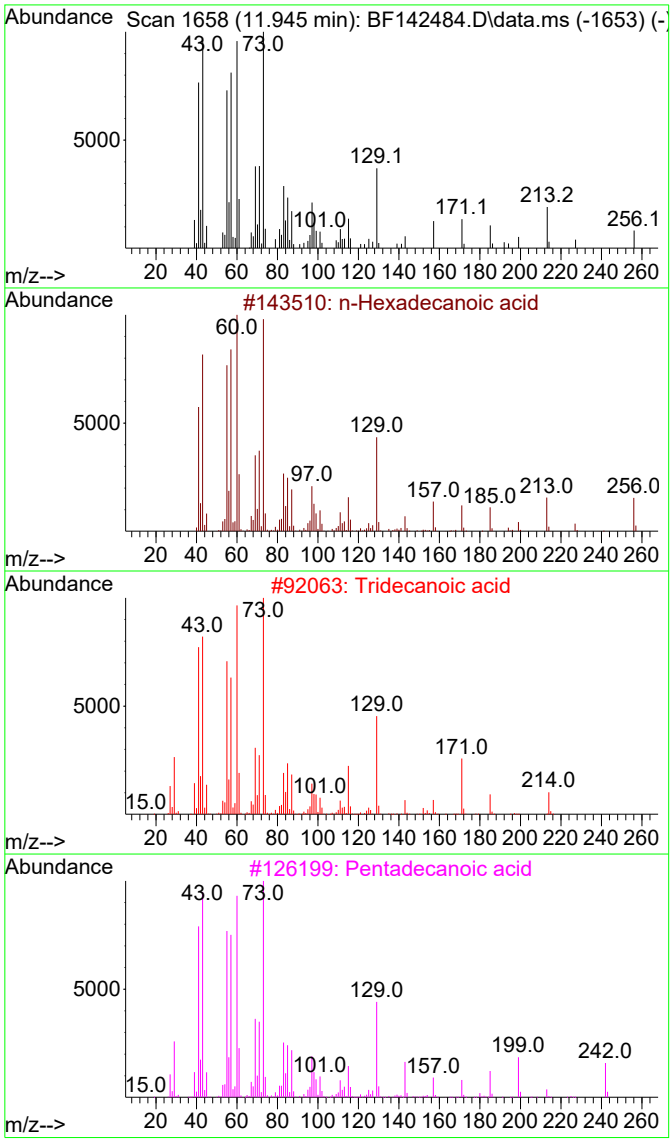
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

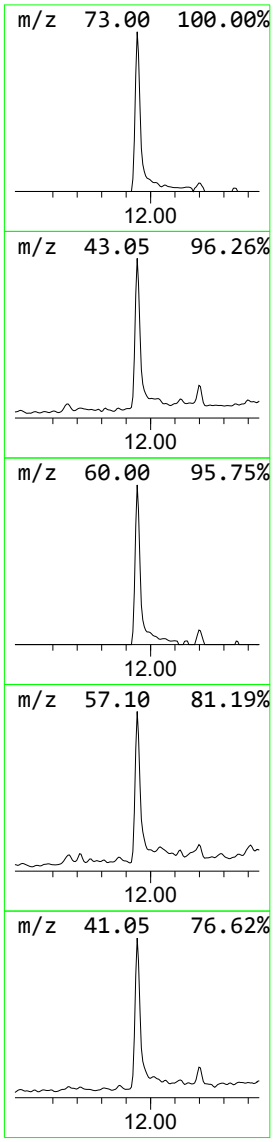
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	4.66 ng	152975	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	87
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	80
5	Undecanoic acid	186	C11H22O2	000112-37-8	68





Sample Results: **BF142484.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

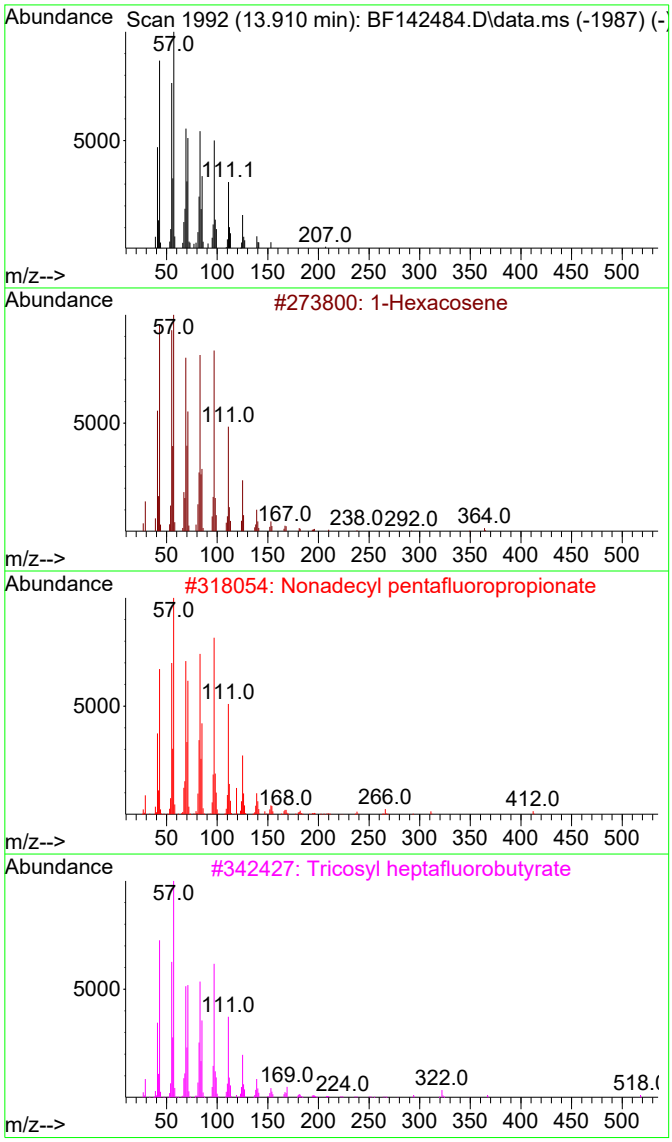
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

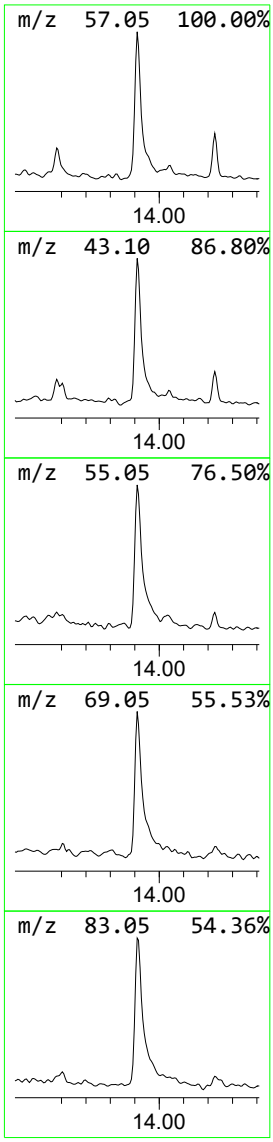
****

Peak Number 4 1-Hexacosene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.910	3.52 ng	117217	Chrysene-d12	14.068

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexacosene	364	C26H52	018835-33-1	93
2	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	91
3	Tricosyl heptafluorobutyrate	536	C27H47F7O2	1000351-83-4	91
4	Octacosyl trifluoroacetate	506	C30H57F3O2	1000351-74-9	91
5	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	91





Sample Results: **BF142484.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.092	6.1	ng	119776	1	6.898	390414	20.0
Benzophenone	10.651	4.9	ng	143288	3	9.933	587194	20.0
n-Hexadecanoic ...	11.945	4.7	ng	152975	4	11.422	656874	20.0
1-Hexacosene	13.910	3.5	ng	117217	5	14.068	666613	20.0

Raw Data: **BF142515.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.2
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
BF142515.D	1	05/20/25 09:45	05/22/25 17:32	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	370	ug/Kg
108-95-2	Phenol	24.8	U	24.8	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.2	U	27.2	190	ug/Kg
95-57-8	2-Chlorophenol	27.3	U	27.3	190	ug/Kg
95-48-7	2-Methylphenol	33.5	U	33.5	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	42.0	U	42.0	190	ug/Kg
98-86-2	Acetophenone	33.0	U	33.0	190	ug/Kg
65794-96-9	3+4-Methylphenols	46.0	U	46.0	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	53.1	U	53.1	89.6	ug/Kg
67-72-1	Hexachloroethane	19.7	U	19.7	190	ug/Kg
98-95-3	Nitrobenzene	20.5	U	20.5	190	ug/Kg
78-59-1	Isophorone	36.7	U	36.7	190	ug/Kg
88-75-5	2-Nitrophenol	65.2	U	65.2	190	ug/Kg
105-67-9	2,4-Dimethylphenol	72.6	U	72.6	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.5	U	34.5	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.7	U	31.7	190	ug/Kg
91-20-3	Naphthalene	25.4	U	25.4	190	ug/Kg
106-47-8	4-Chloroaniline	39.6	U	39.6	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.3	U	28.3	190	ug/Kg
105-60-2	Caprolactam	58.3	U	58.3	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.1	U	32.1	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.7	U	28.7	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.2	U	22.2	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.6	U	32.6	190	ug/Kg
92-52-4	1,1-Biphenyl	24.4	U	24.4	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.2	U	25.2	190	ug/Kg
88-74-4	2-Nitroaniline	53.9	U	53.9	190	ug/Kg
131-11-3	Dimethylphthalate	30.4	U	30.4	190	ug/Kg

Raw Data: **BF142515.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.2
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
BF142515.D	1	05/20/25 09:45	05/22/25 17:32	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.4	U	32.4	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.6	U	37.6	190	ug/Kg
99-09-2	3-Nitroaniline	51.5	U	51.5	190	ug/Kg
83-32-9	Acenaphthene	23.9	U	23.9	190	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	370	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	370	ug/Kg
132-64-9	Dibenzofuran	25.4	U	25.4	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	56.1	U	56.1	190	ug/Kg
84-66-2	Diethylphthalate	31.7	U	31.7	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.9	U	29.9	190	ug/Kg
86-73-7	Fluorene	28.3	U	28.3	190	ug/Kg
100-01-6	4-Nitroaniline	71.9	U	71.9	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.8	U	36.8	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.1	U	31.1	190	ug/Kg
118-74-1	Hexachlorobenzene	28.3	U	28.3	190	ug/Kg
1912-24-9	Atrazine	38.1	U	38.1	190	ug/Kg
87-86-5	Pentachlorophenol	57.5	U	57.5	370	ug/Kg
85-01-8	Phenanthrene	140	J	23.4	190	ug/Kg
120-12-7	Anthracene	37.3	U	37.3	190	ug/Kg
86-74-8	Carbazole	34.9	U	34.9	190	ug/Kg
84-74-2	Di-n-butylphthalate	53.6	U	53.6	190	ug/Kg
206-44-0	Fluoranthene	440		33.6	190	ug/Kg
129-00-0	Pyrene	300		40.3	190	ug/Kg
85-68-7	Butylbenzylphthalate	80.0	U	80.0	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	41.1	U	41.1	370	ug/Kg
56-55-3	Benzo(a)anthracene	180	J	25.8	190	ug/Kg
218-01-9	Chrysene	200		22.3	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	66.3	U	66.3	190	ug/Kg
117-84-0	Di-n-octyl phthalate	97.2	U	97.2	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	320		21.3	190	ug/Kg

Raw Data: **BF142515.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.2
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
BF142515.D	1	05/20/25 09:45	05/22/25 17:32	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	79.1	J	25.1	190	ug/Kg
50-32-8	Benzo(a)pyrene	200		33.0	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	86.9	J	32.6	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.7	U	30.7	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	110	J	28.8	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.7	U	28.7	190	ug/Kg
123-91-1	1,4-Dioxane	50.6	U	50.6	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.7	U	30.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	66.5		18 - 112	44%	SPK: 150
13127-88-3	Phenol-d6	67.0		15 - 107	45%	SPK: 150
4165-60-0	Nitrobenzene-d5	41.0		18 - 107	41%	SPK: 100
321-60-8	2-Fluorobiphenyl	39.6		20 - 109	40%	SPK: 100
118-79-6	2,4,6-Tribromophenol	61.3		10 - 116	41%	SPK: 150
1718-51-0	Terphenyl-d14	33.1		10 - 105	33%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	105000	6.898			
1146-65-2	Naphthalene-d8	356000	8.181			
15067-26-2	Acenaphthene-d10	156000	9.934			
1517-22-2	Phenanthrene-d10	249000	11.422			
1719-03-5	Chrysene-d12	190000	14.063			
1520-96-3	Perylene-d12	152000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	AB		5.11	ug/Kg
000119-61-9	Benzophenone	150	J		10.6	ug/Kg
000613-12-7	Anthracene, 2-methyl-	160	J		11.9	ug/Kg
003452-07-1	1-Eicosene	80.6	J		13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	140	J		15.4	ug/Kg

Raw Data: **BF142515.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.2
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
BF142515.D	1	05/20/25 09:45	05/22/25 17:32	PB168083

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

Sample Results: **BF142515.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

Quant Time: May 23 01:22:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

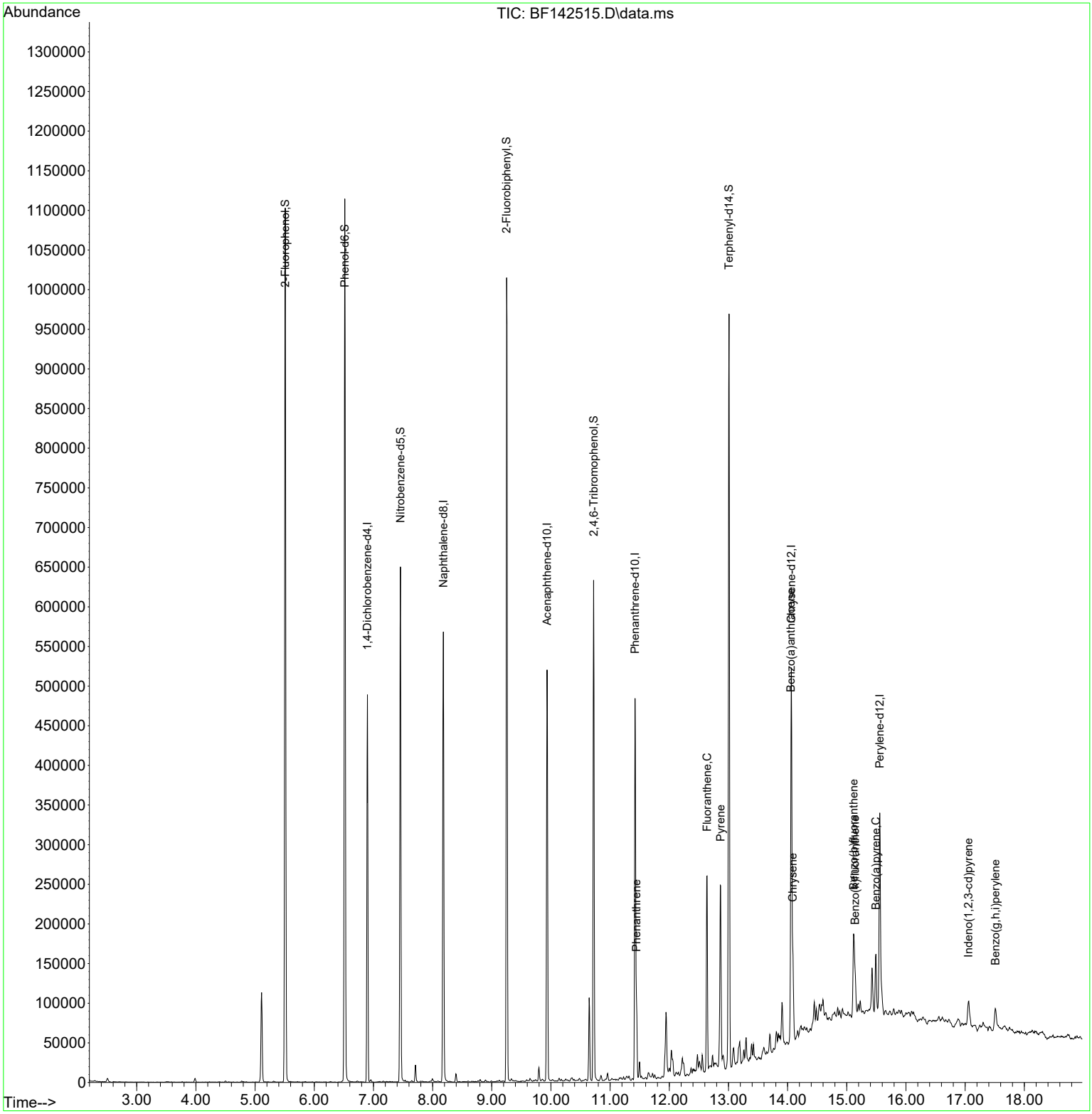
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	105109	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	356070	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	155651	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	248584	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	190159	20.000	ng	-0.01
86) Perylene-d12	15.557	264	152099	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	414930	66.508	ng	0.00
7) Phenol-d6	6.516	99	503390	67.029	ng	-0.02
23) Nitrobenzene-d5	7.457	82	267452	40.958	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	105901	61.302	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	459619	39.624	ng	-0.02
79) Terphenyl-d14	13.010	244	460591	33.100	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.445	178	50563	3.806	ng	99
75) Fluoranthene	12.639	202	145071	11.687	ng	99
78) Pyrene	12.869	202	141308	7.966	ng	99
81) Benzo(a)anthracene	14.057	228	60130m	4.735	ng	
83) Chrysene	14.086	228	60922m	5.339	ng	
87) Indeno(1,2,3-cd)pyrene	17.057	276	26567	2.327	ng	96
88) Benzo(b)fluoranthene	15.116	252	77029m	8.557	ng	
89) Benzo(k)fluoranthene	15.139	252	17854m	2.118	ng	
90) Benzo(a)pyrene	15.492	252	45711	5.387	ng	97
92) Benzo(g,h,i)perylene	17.515	276	26352	2.845	ng	95

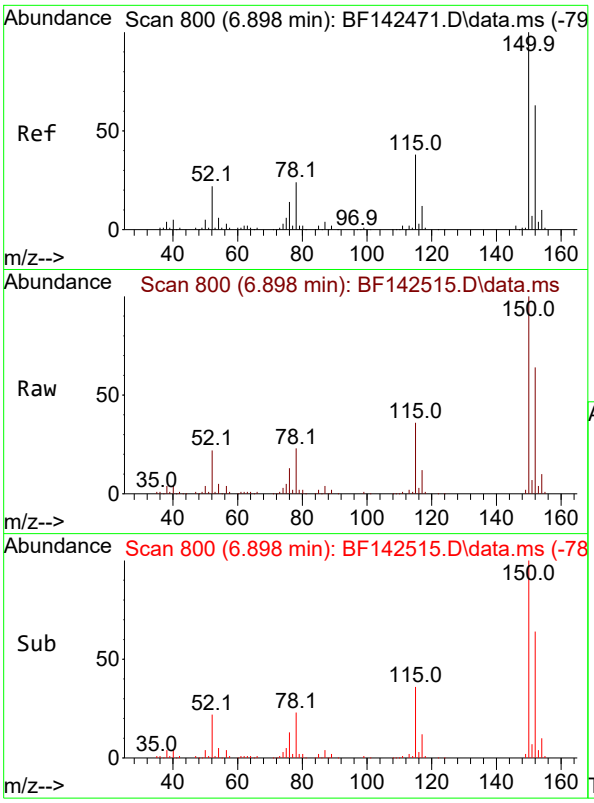
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

Quant Time: May 23 01:22:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



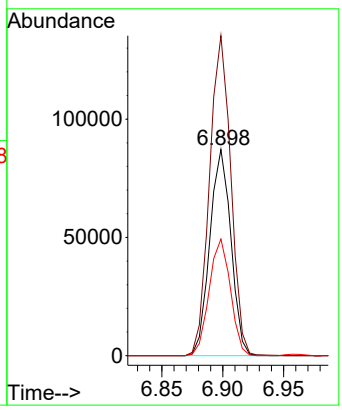


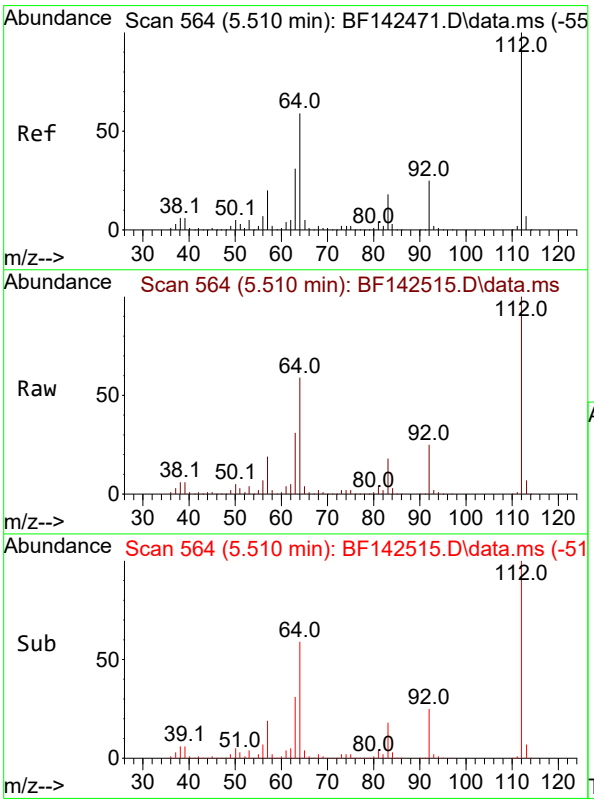
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:152 Resp: 105109

Ion	Ratio	Lower	Upper
152	100		
150	155.2	128.2	192.4
115	56.6	48.3	72.5

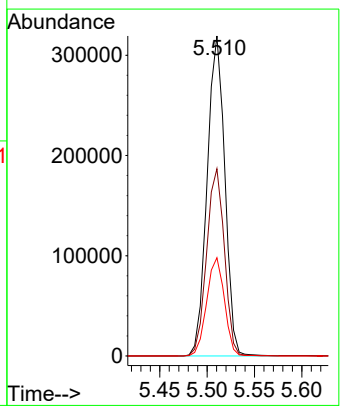


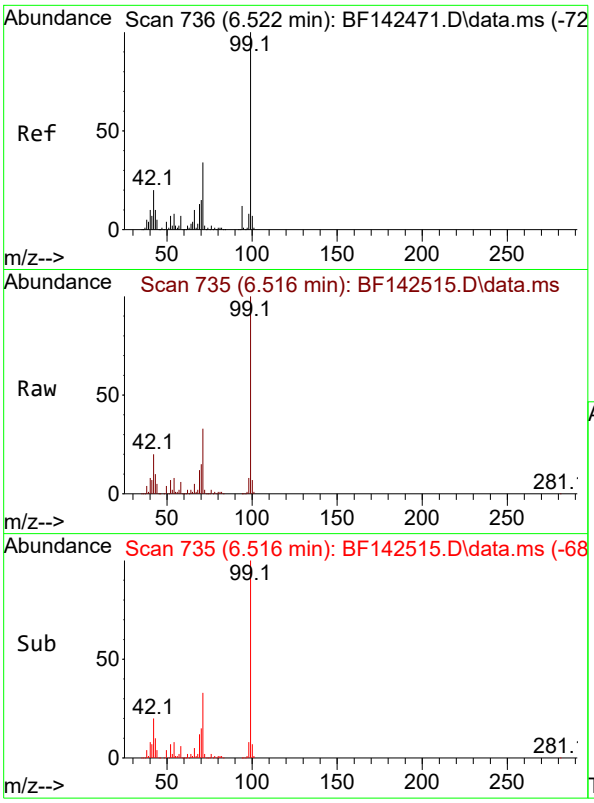


#5
2-Fluorophenol
Concen: 66.508 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:112 Resp: 414930

Ion	Ratio	Lower	Upper
112	100		
64	58.5	47.5	71.3
63	30.7	24.9	37.3



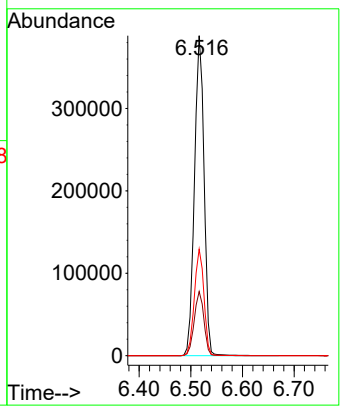


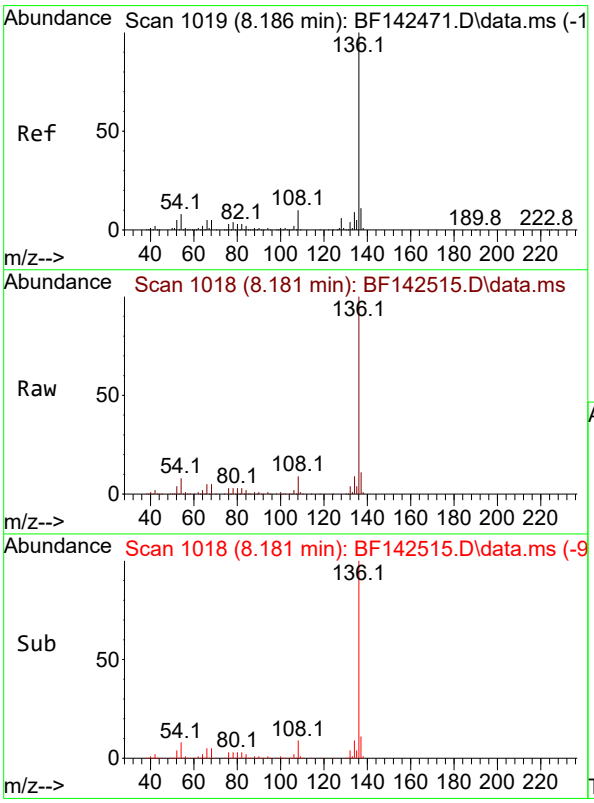
#7
Phenol-d6
Concen: 67.029 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion: 99 Resp: 503390

Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.2	24.2
71	33.3	27.3	40.9

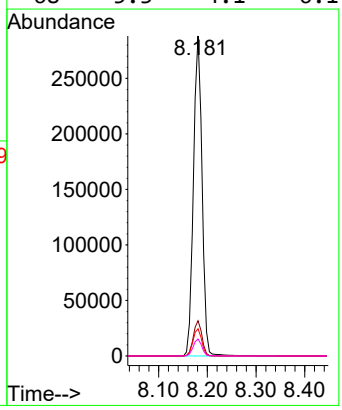


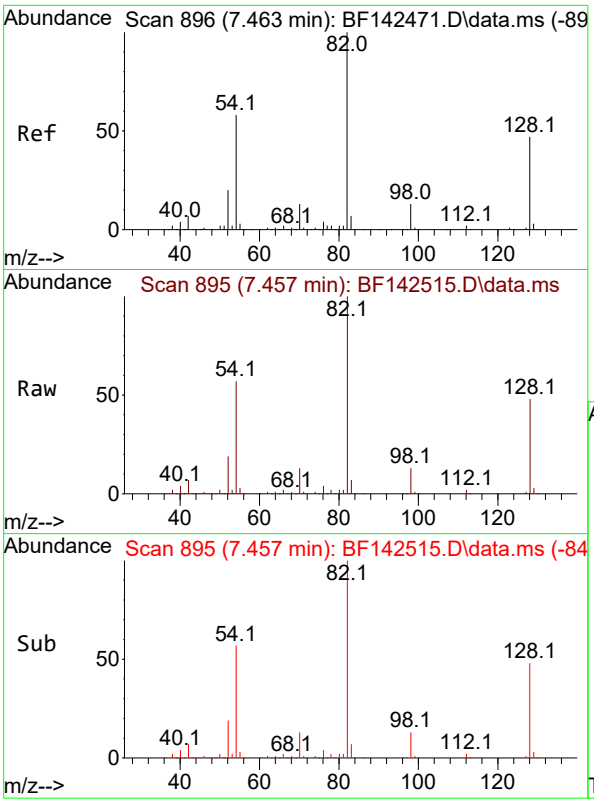


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:136 Resp: 356070

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	13.0
54	8.5	6.6	10.0
68	5.3	4.1	6.1



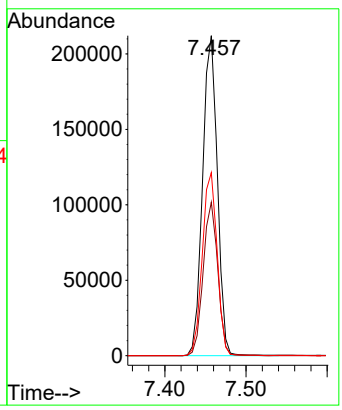


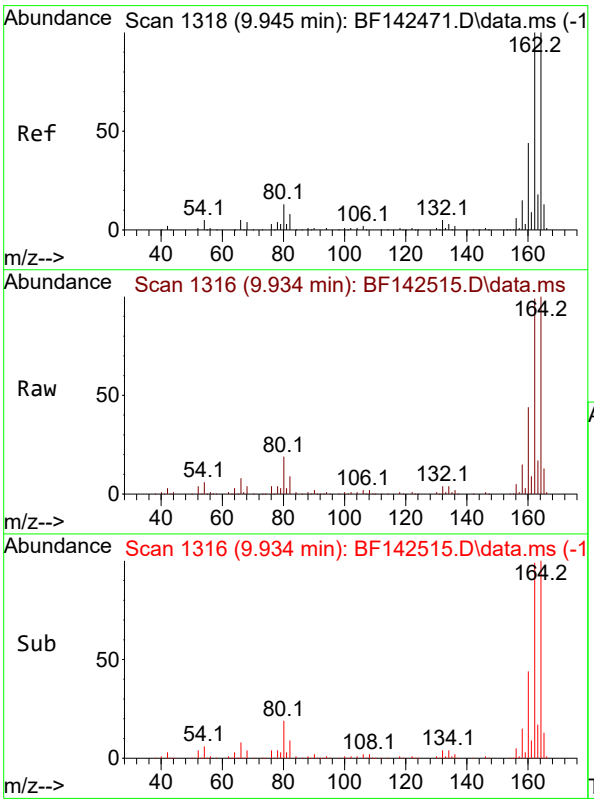
#23
Nitrobenzene-d5
Concen: 40.958 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion: 82 Resp: 267452

Ion	Ratio	Lower	Upper
82	100		
128	47.9	37.4	56.2
54	57.2	46.6	70.0

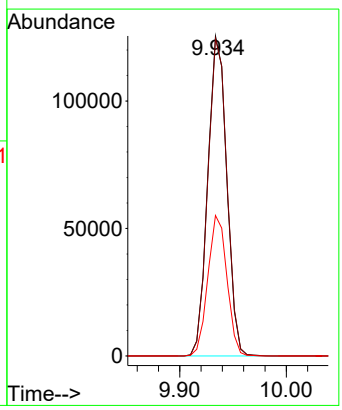


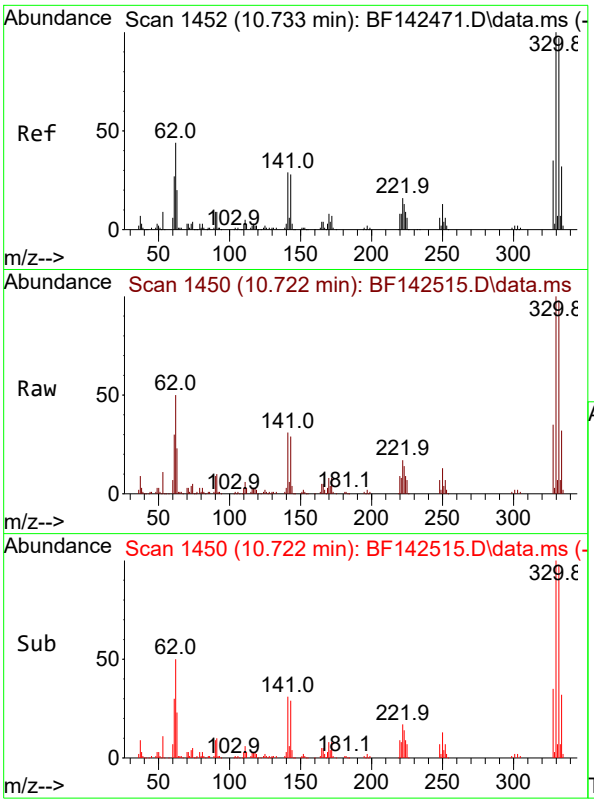


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.934 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:164 Resp: 155651

Ion	Ratio	Lower	Upper
164	100		
162	99.2	80.2	120.4
160	43.9	35.6	53.4



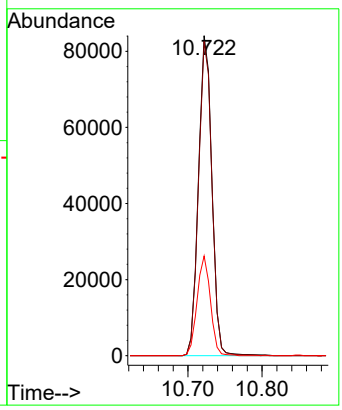


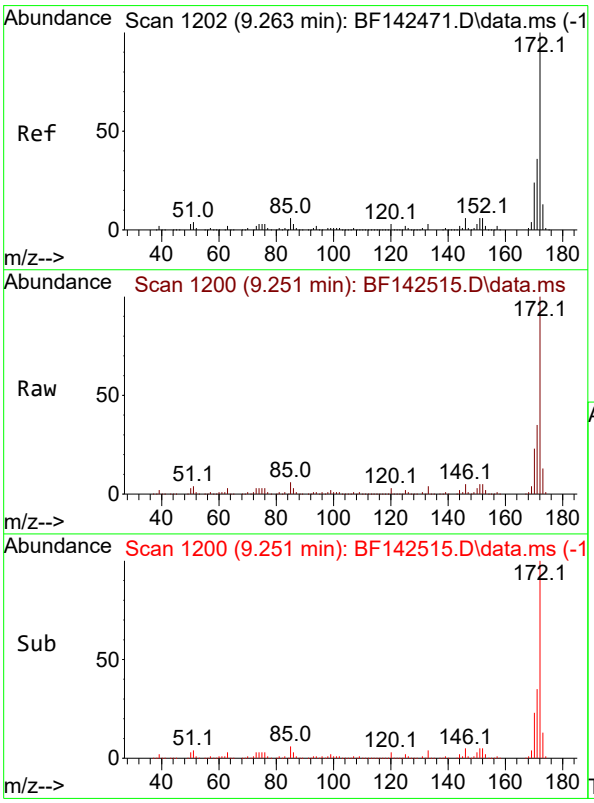
#42
2,4,6-Tribromophenol
Concen: 61.302 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:330 Resp: 105901

Ion	Ratio	Lower	Upper
330	100		
332	98.0	77.6	116.4
141	30.9	24.6	36.8

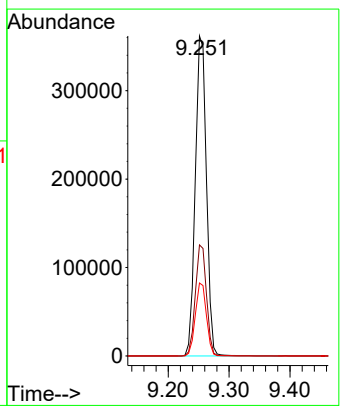


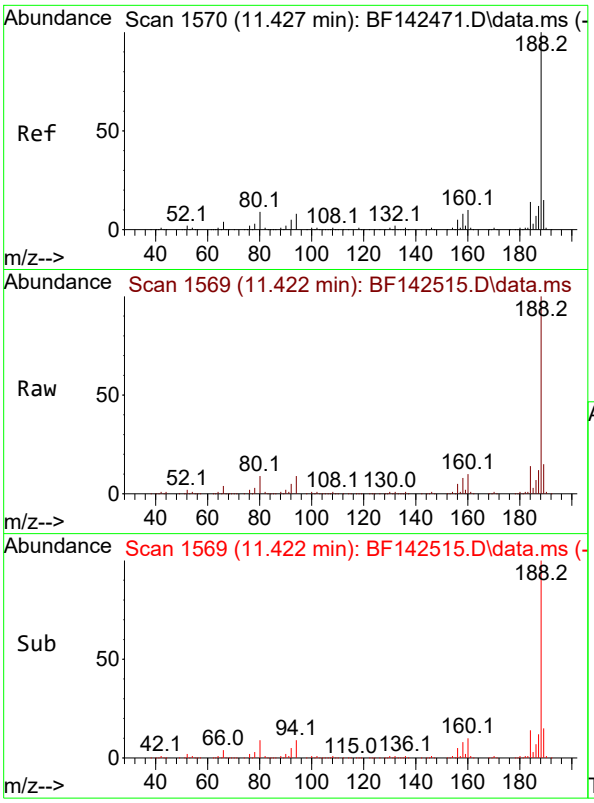


#45
2-Fluorobiphenyl
Concen: 39.624 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.017 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:172 Resp: 459619

Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.6	42.8
170	22.8	18.9	28.3



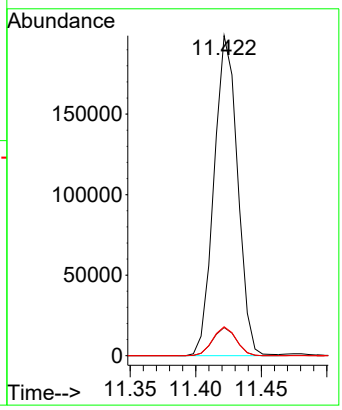


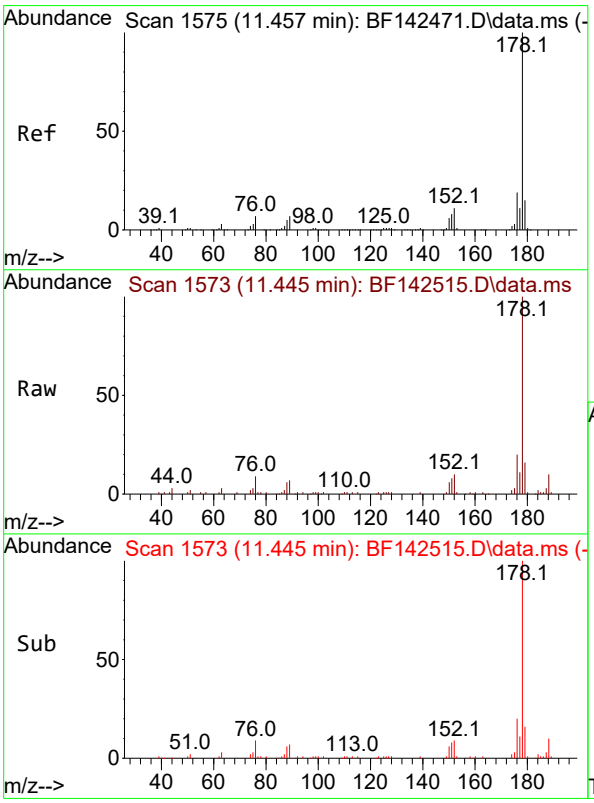
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:188 Resp: 248584

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.6	10.0
80	9.0	7.4	11.0

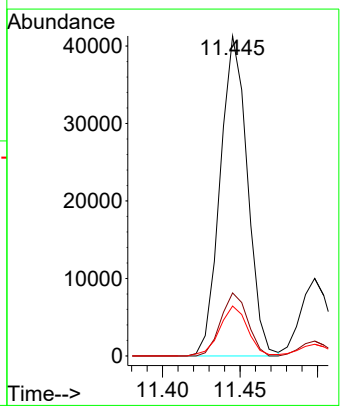


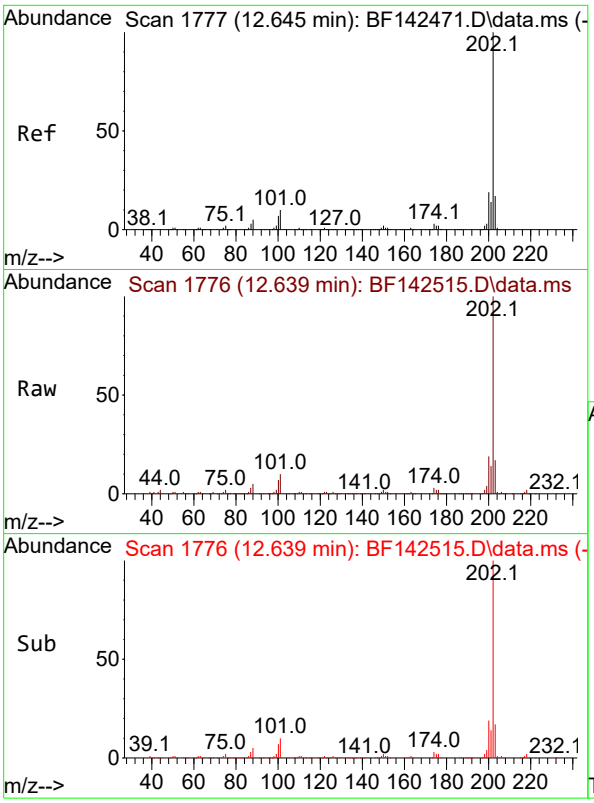


#71
Phenanthrene
Concen: 3.806 ng
RT: 11.445 min Scan# 1573
Delta R.T. -0.012 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:178 Resp: 50563

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.4	23.0
179	15.6	12.3	18.5



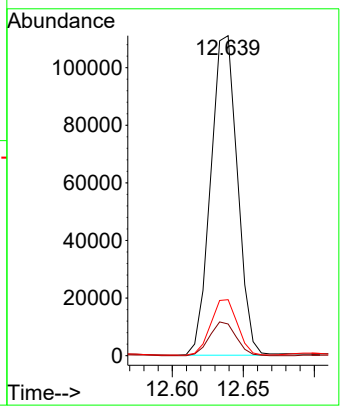


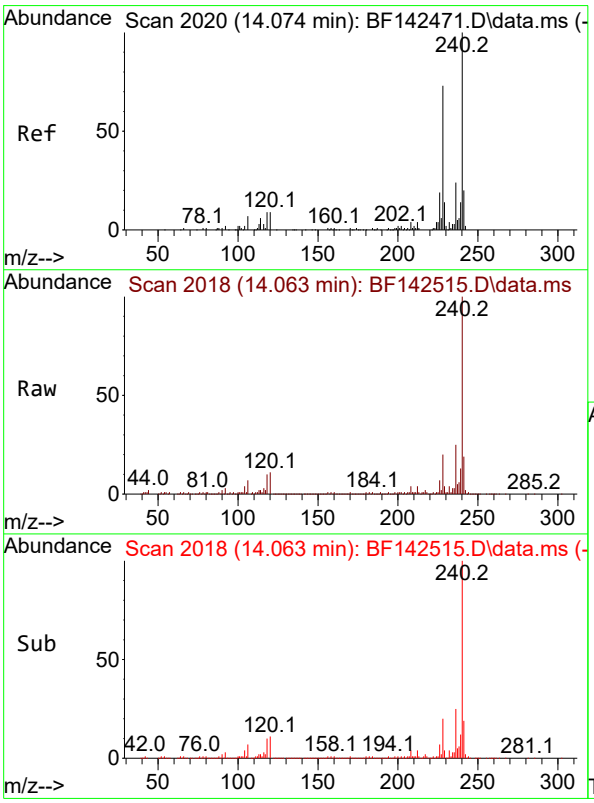
#75
Fluoranthene
Concen: 11.687 ng
RT: 12.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:202 Resp: 145071

Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	29.6
203	17.5	0.0	37.2

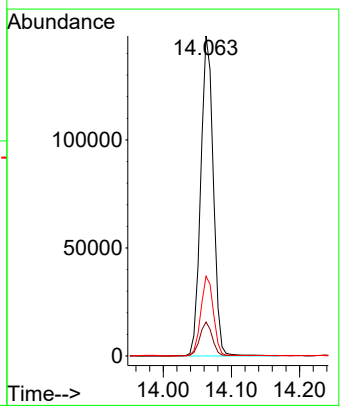


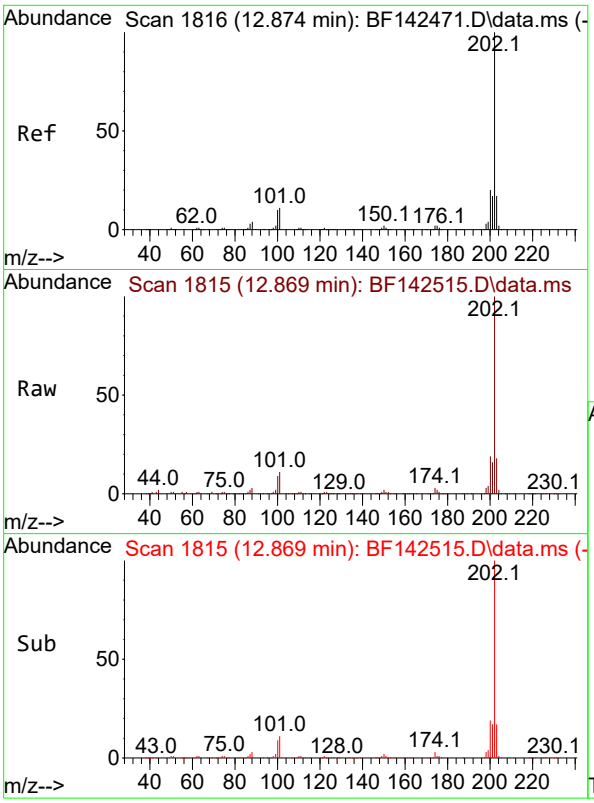


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:240 Resp: 190159

Ion	Ratio	Lower	Upper
240	100		
120	10.6	7.5	11.3
236	24.9	19.6	29.4



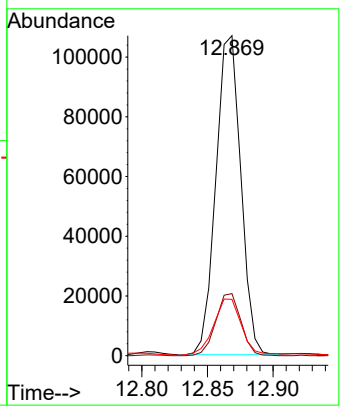


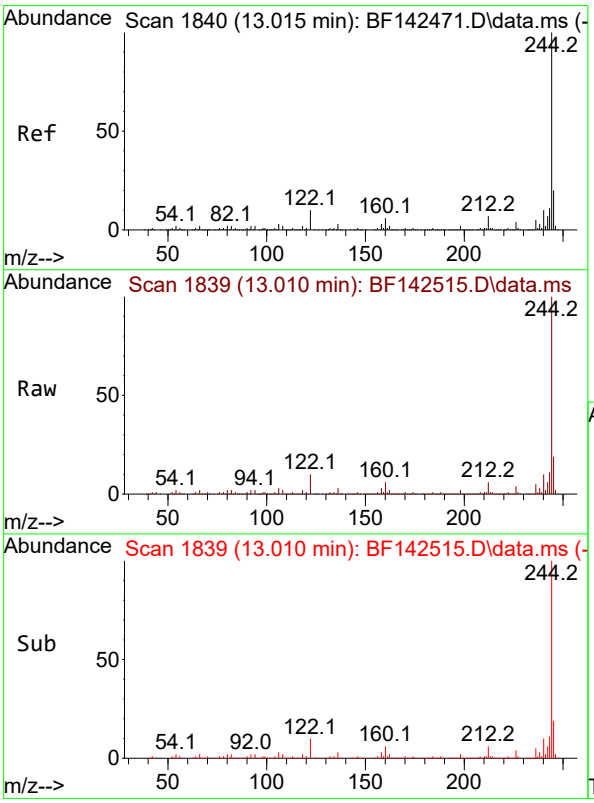
#78
Pyrene
Concen: 7.966 ng
RT: 12.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:202 Resp: 141308

Ion	Ratio	Lower	Upper
202	100		
200	19.4	16.1	24.1
203	17.6	13.9	20.9

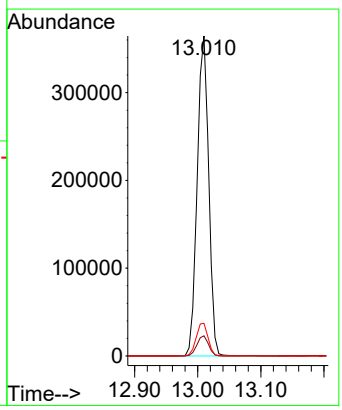


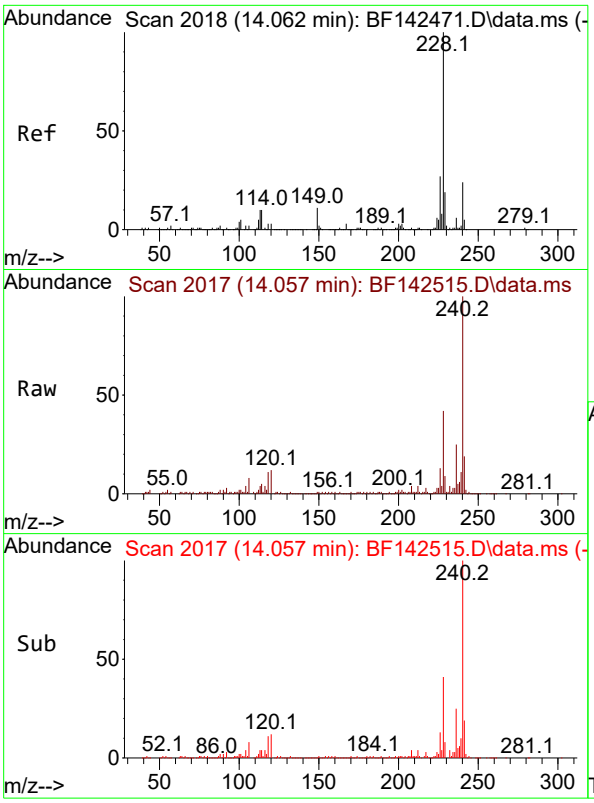


#79
Terphenyl-d14
Concen: 33.100 ng
RT: 13.010 min Scan# 1839
Delta R.T. -0.006 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:244 Resp: 460591

Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.3	7.9
122	10.2	8.2	12.2



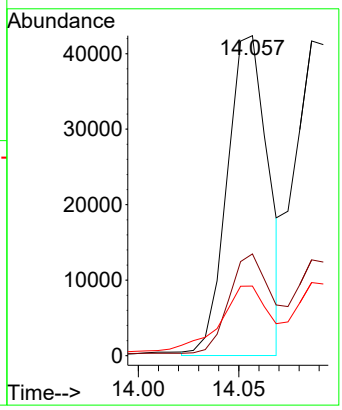


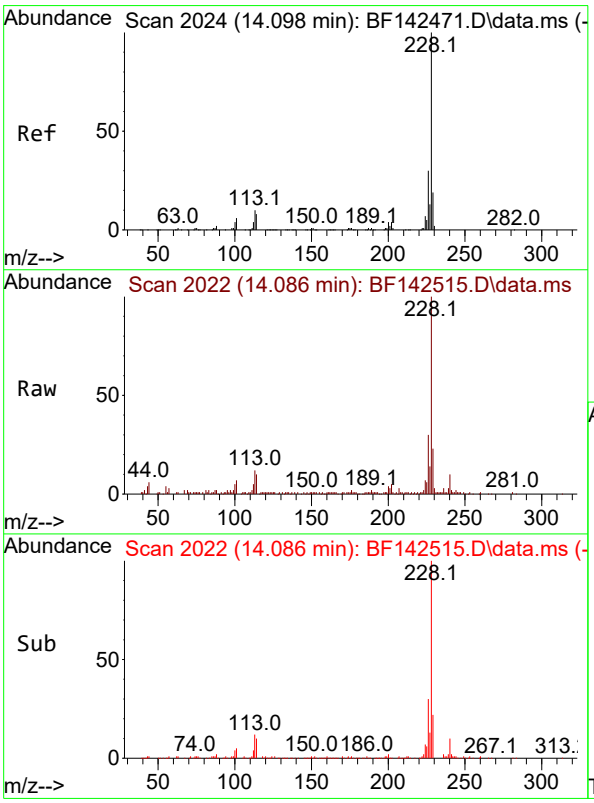
#81
Benzo(a)anthracene
Concen: 4.735 ng m
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:228 Resp: 60130

Ion	Ratio	Lower	Upper
228	100		
226	31.8	21.2	31.8#
229	21.7	15.5	23.3

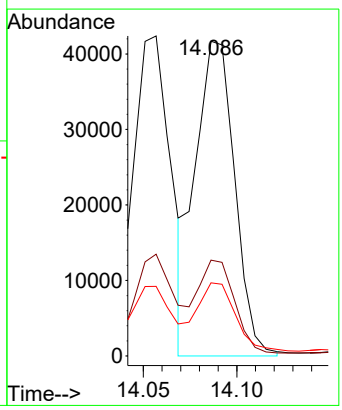


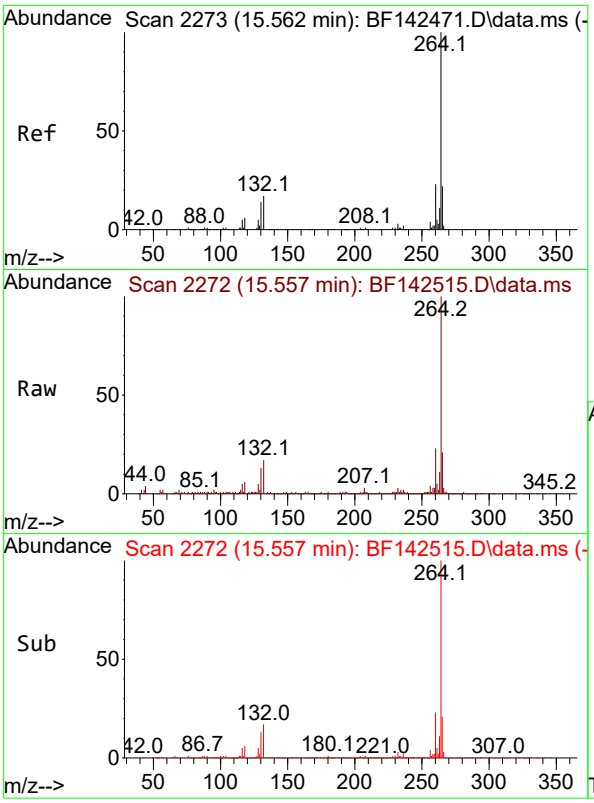


#83
Chrysene
Concen: 5.339 ng m
RT: 14.086 min Scan# 2022
Delta R.T. -0.017 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:228 Resp: 60922

Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.8	35.6
229	23.2	15.4	23.2#



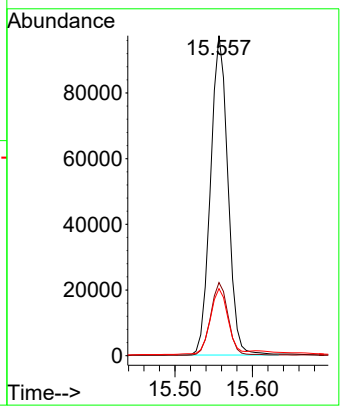


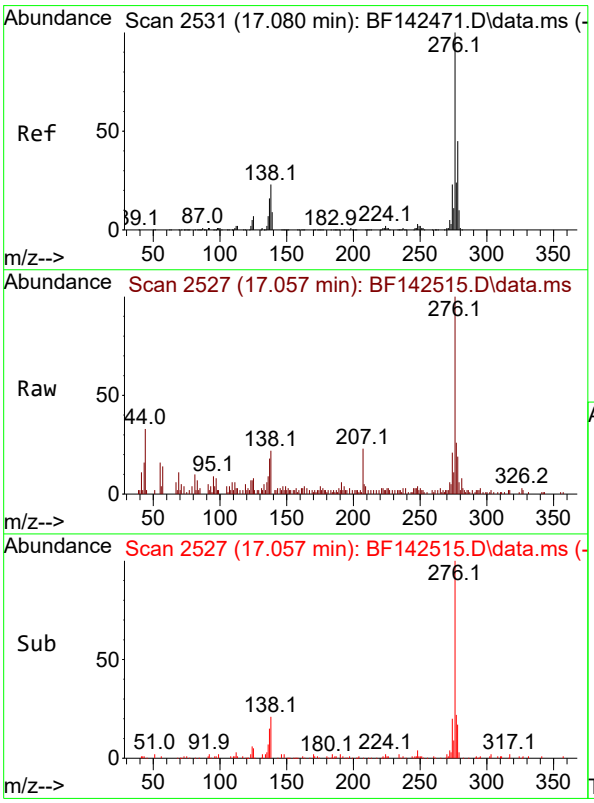
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:264 Resp: 152099

Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.6	28.0
265	21.0	17.7	26.5

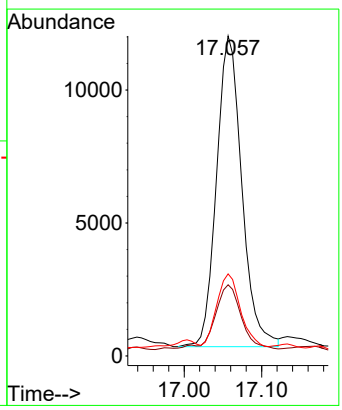


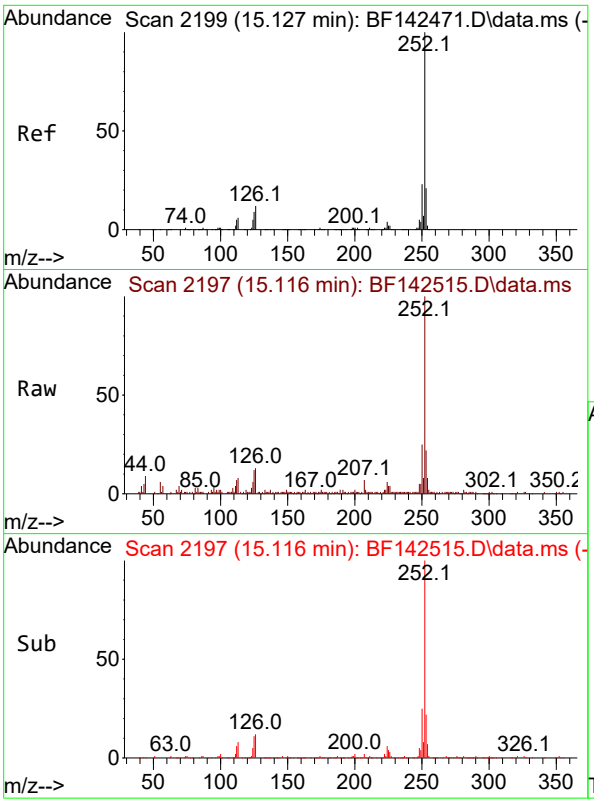


#87
Indeno(1,2,3-cd)pyrene
Concen: 2.327 ng
RT: 17.057 min Scan# 2527
Delta R.T. -0.035 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:276 Resp: 26567

Ion	Ratio	Lower	Upper
276	100		
138	22.9	19.9	29.9
277	23.2	20.2	30.2



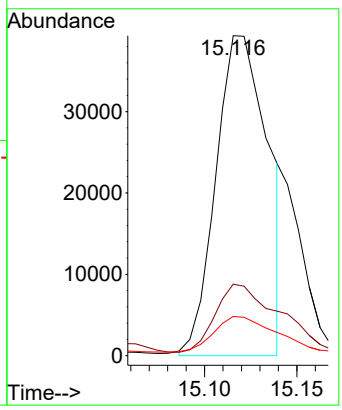


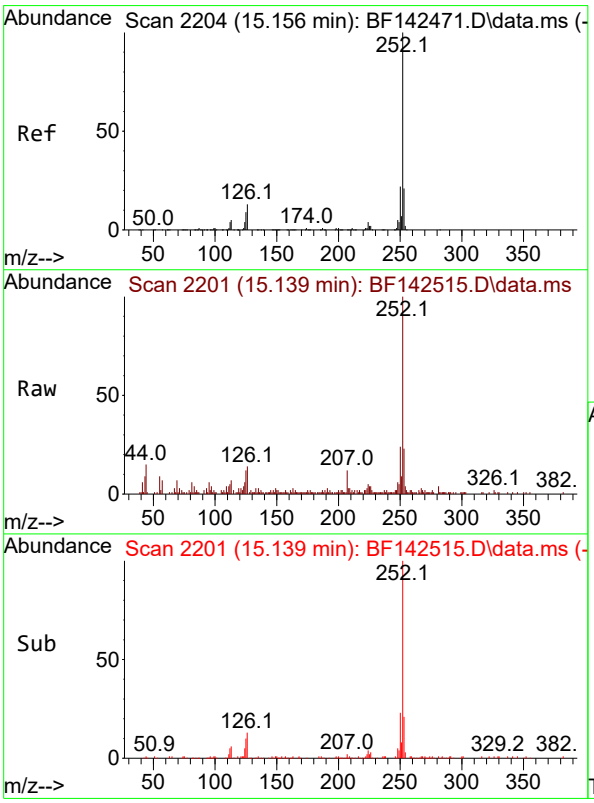
#88
Benzo(b)fluoranthene
Concen: 8.557 ng m
RT: 15.116 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:252 Resp: 77029

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.0	25.4
125	12.3	7.4	11.0#

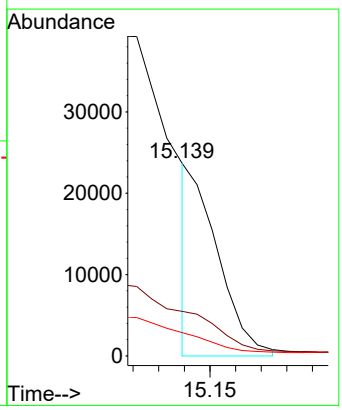


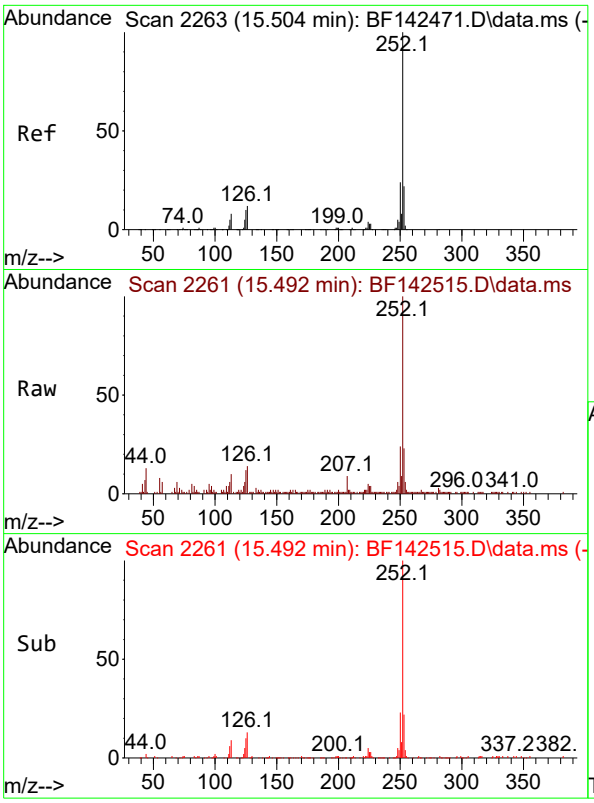


#89
Benzo(k)fluoranthene
Concen: 2.118 ng m
RT: 15.139 min Scan# 2201
Delta R.T. -0.023 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:252 Resp: 17854

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.0	25.4
125	12.2	7.3	10.9#



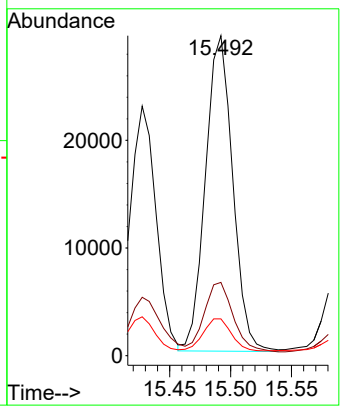


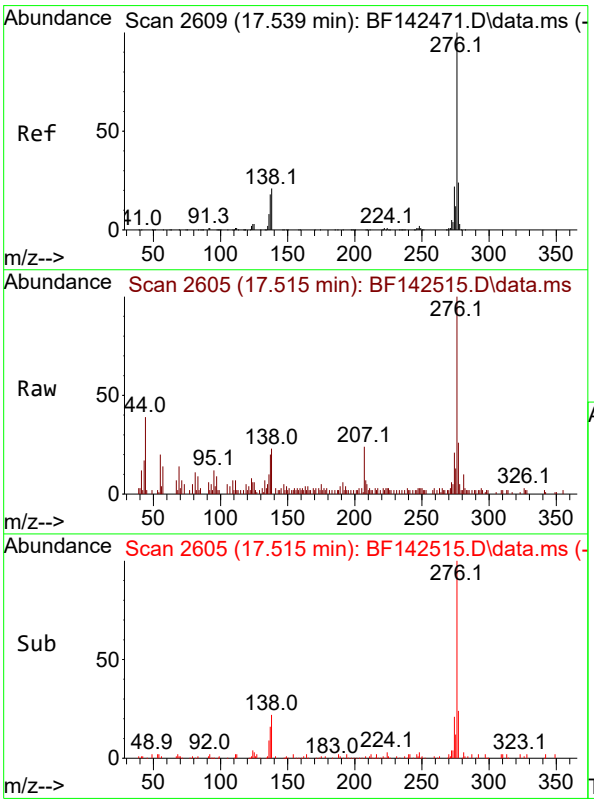
#90
Benzo(a)pyrene
Concen: 5.387 ng
RT: 15.492 min Scan# 2
Delta R.T. -0.017 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:252 Resp: 45711

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.4	26.0
125	11.5	7.9	11.9

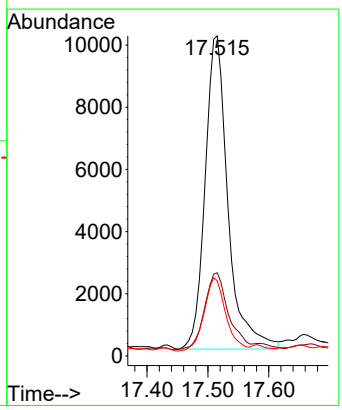




#92
Benzo(g,h,i)perylene
Concen: 2.845 ng
RT: 17.515 min Scan# 2605
Delta R.T. -0.041 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:276 Resp: 26352

Ion	Ratio	Lower	Upper
276	100		
277	26.0	19.2	28.8
138	23.5	16.8	25.2



Sample Results: **BF142515.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142515.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.110	488	496	504	rBV	113098	163668	11.23%	1.241%
2	5.510	558	564	569	rBV	1102276	1430726	98.18%	10.847%
3	6.516	729	735	747	rVB	1113114	1457269	100.00%	11.048%
4	6.898	795	800	805	rBV	488666	590881	40.55%	4.480%
5	7.457	889	895	900	rBV	649724	816688	56.04%	6.191%
6	7.710	933	938	947	rVB	21602	27805	1.91%	0.211%
7	8.181	1012	1018	1026	rBV	567463	703045	48.24%	5.330%
8	9.251	1195	1200	1206	rBV	1014168	1269819	87.14%	9.627%
9	9.798	1288	1293	1299	rBV	17050	21585	1.48%	0.164%
10	9.934	1311	1316	1321	rBV	518219	642285	44.07%	4.869%
11	10.645	1432	1437	1445	rBV	104676	130805	8.98%	0.992%
12	10.722	1445	1450	1455	rBV	630967	781827	53.65%	5.927%
13	11.422	1564	1569	1578	rBV2	480896	718276	49.29%	5.445%
14	11.498	1578	1582	1585	rVV	19862	23172	1.59%	0.176%
15	11.645	1602	1607	1615	rBV4	7909	18899	1.30%	0.143%
16	11.945	1650	1658	1664	rBV2	81931	157421	10.80%	1.193%
17	12.033	1670	1673	1683	rVB3	32176	68963	4.73%	0.523%
18	12.222	1697	1705	1707	rBV2	22100	39677	2.72%	0.301%
19	12.475	1744	1748	1751	rBV	20349	25015	1.72%	0.190%
20	12.510	1751	1754	1759	rVV3	10769	16906	1.16%	0.128%
21	12.557	1759	1762	1768	rVB	21917	28320	1.94%	0.215%
22	12.639	1770	1776	1780	rBV	246950	330730	22.70%	2.507%
23	12.733	1788	1792	1795	rBV	14596	17453	1.20%	0.132%
24	12.863	1807	1814	1819	rBV	228921	342671	23.51%	2.598%
25	13.010	1831	1839	1845	rBV	950779	1240414	85.12%	9.404%
26	13.086	1847	1852	1858	rBV2	23892	44649	3.06%	0.338%
27	13.192	1863	1870	1874	rVB	27971	59543	4.09%	0.451%
28	13.263	1878	1882	1884	rVV	15741	21102	1.45%	0.160%
29	13.298	1884	1888	1895	rVB2	30070	45592	3.13%	0.346%
30	13.392	1900	1904	1907	rVV	18974	23425	1.61%	0.178%
31	13.422	1907	1909	1914	rVB	16104	17777	1.22%	0.135%
32	13.698	1953	1956	1962	rVB	22951	31608	2.17%	0.240%
33	13.810	1971	1975	1978	rBV2	21411	34158	2.34%	0.259%
34	13.904	1987	1991	2001	rVB3	53446	89231	6.12%	0.676%
35	14.063	2012	2018	2029	rBV2	470698	826875	56.74%	6.269%
36	14.451	2081	2084	2087	rVB	22066	25535	1.75%	0.194%

Sample Results: **BF142515.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	15.116	2192	2197	2207	rBV	103409	247689	17.00%	1.878%
38	15.427	2246	2250	2256	rVB	55068	84726	5.81%	0.642%
39	15.492	2256	2261	2266	rVV	73873	117942	8.09%	0.894%
40	15.557	2267	2272	2284	rVB	254461	456477	31.32%	3.461%

Sum of corrected areas: 13190649

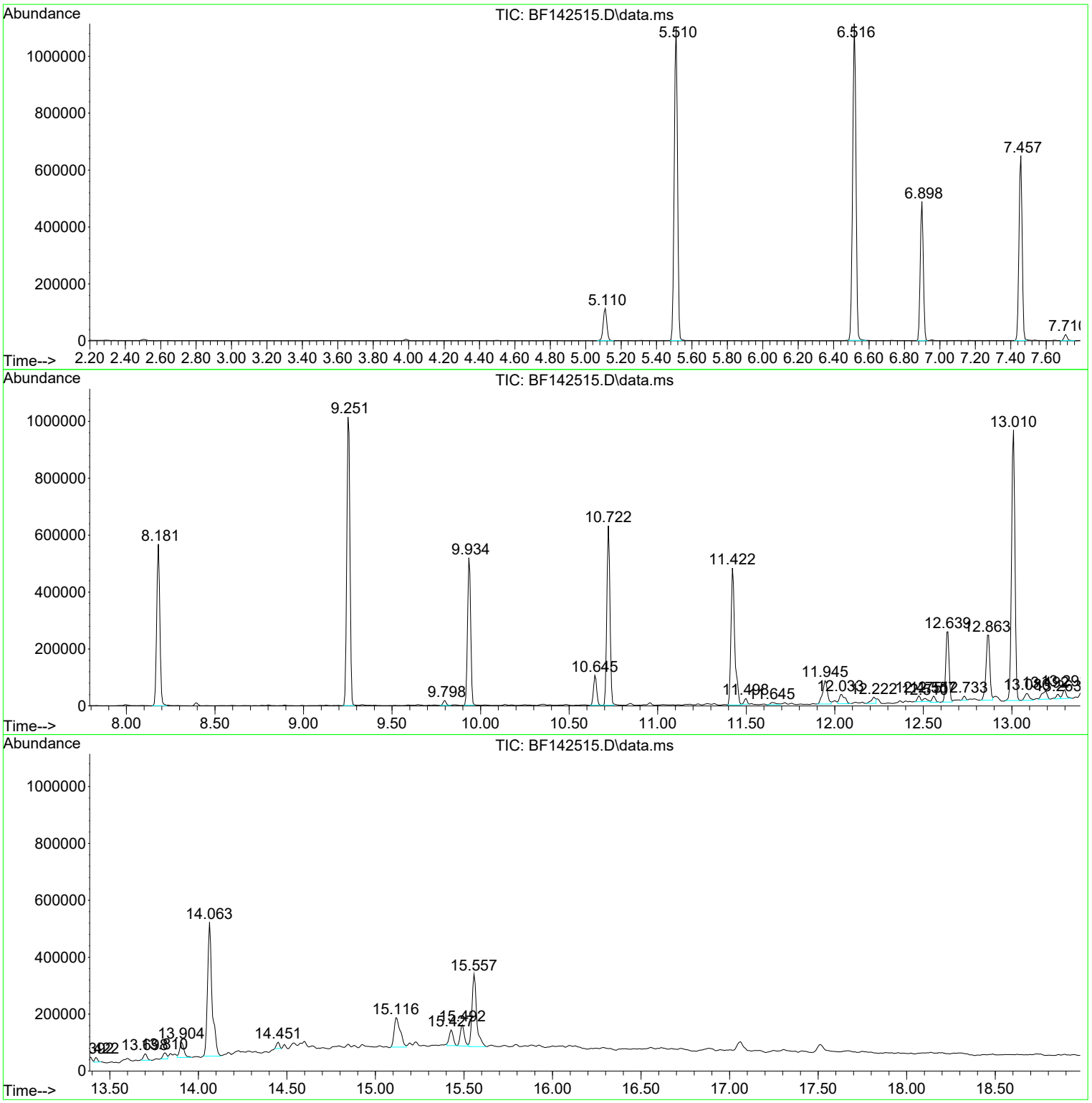
Sample Results: **BF142515.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.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\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

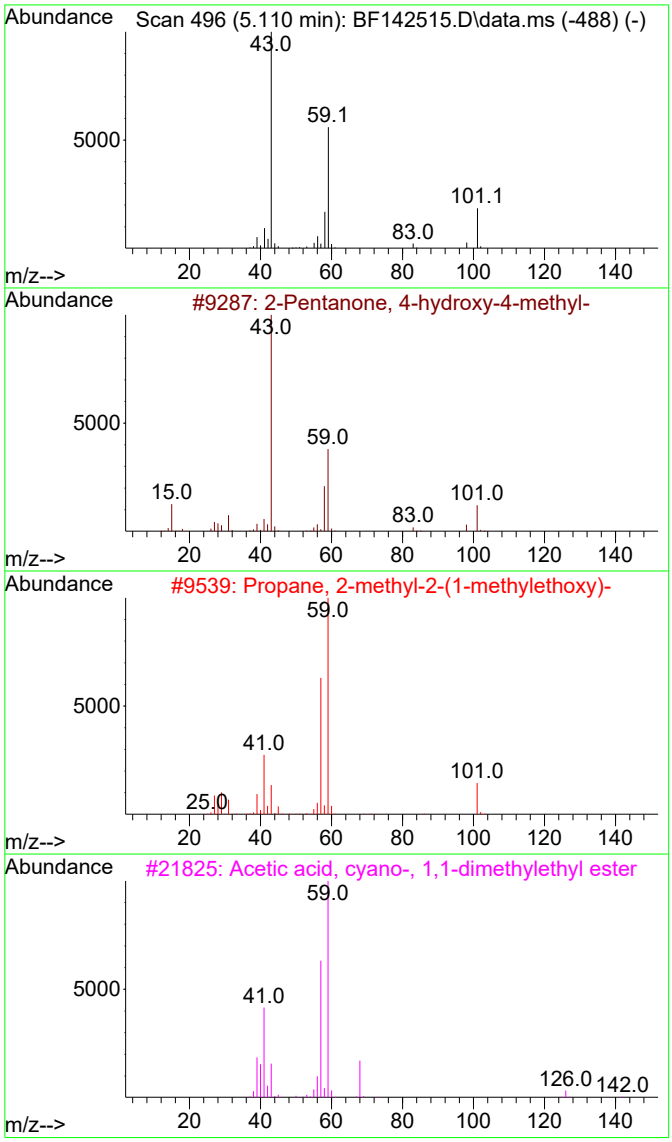
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

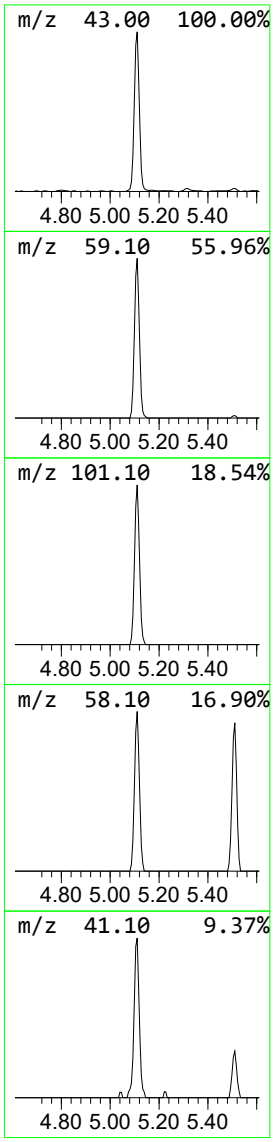
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.110	5.54 ng	163668	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	33
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

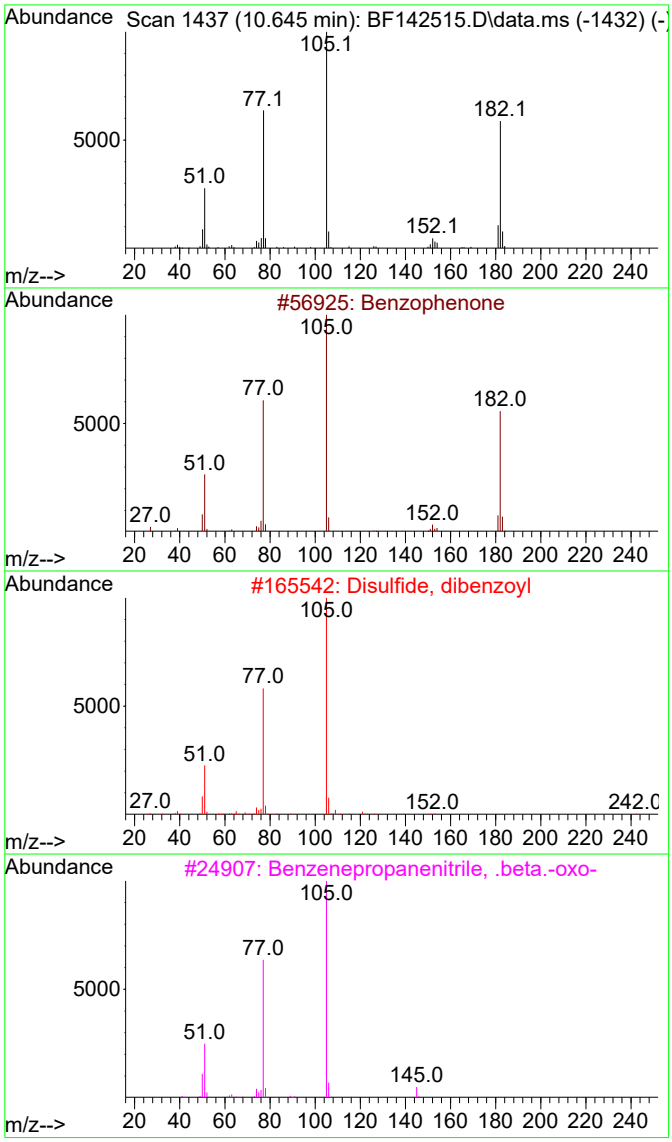
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

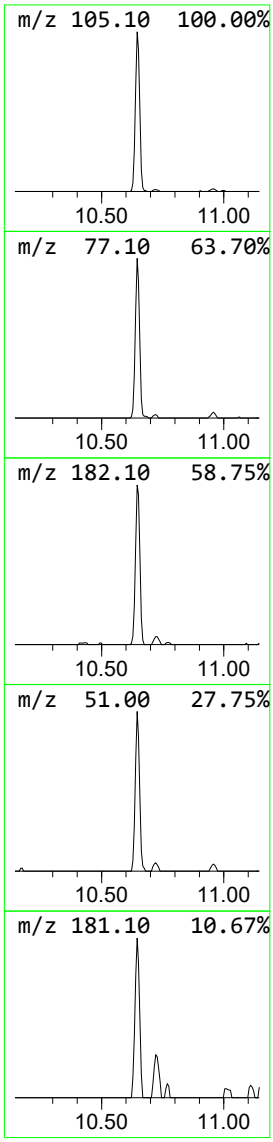
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	4.07 ng	130805	Acenaphthene-d10	9.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	97
2	Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	49
3	Benzenepropanenitrile, .beta.-oxo-	145	C9H7NO	000614-16-4	49
4	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47
5	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

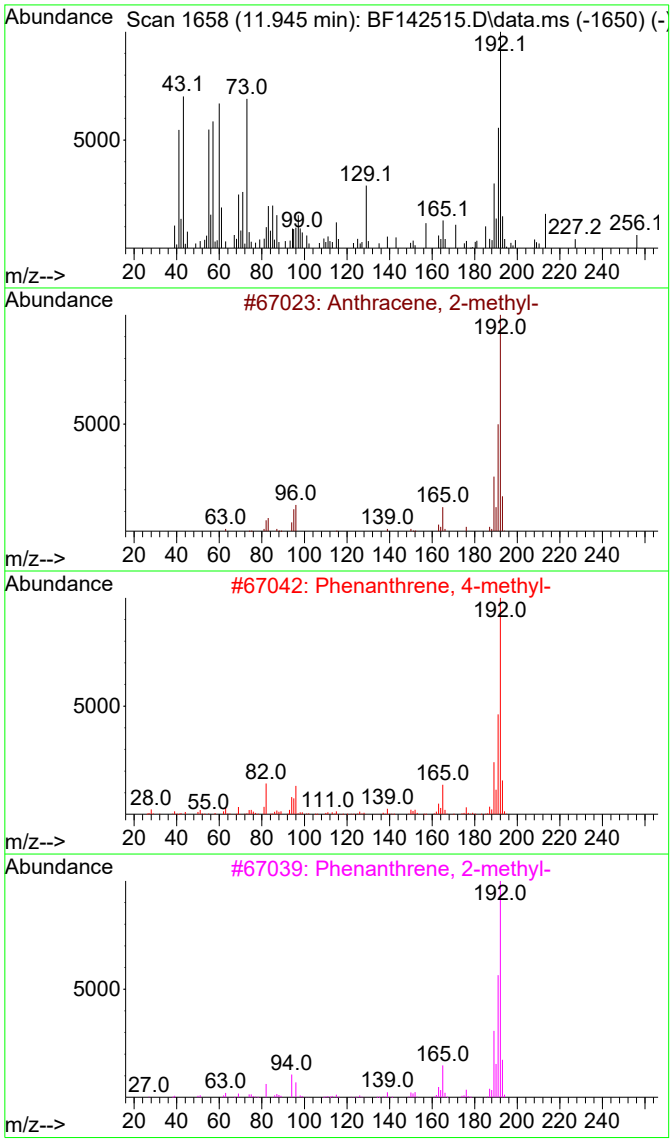
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

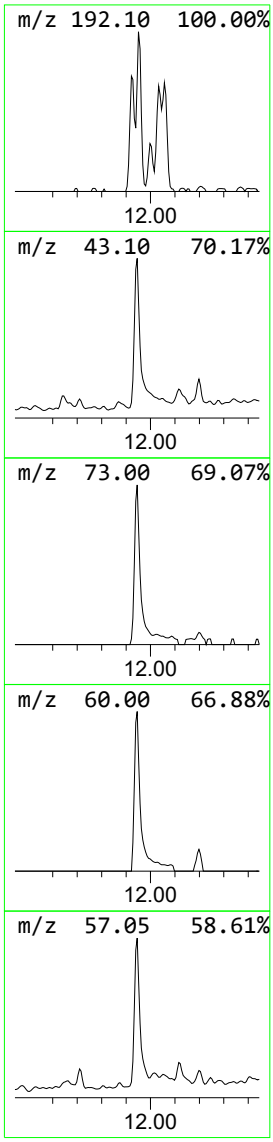
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Anthracene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	4.38 ng	157421	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	89
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	89
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	87
5	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	86





Sample Results: **BF142515.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

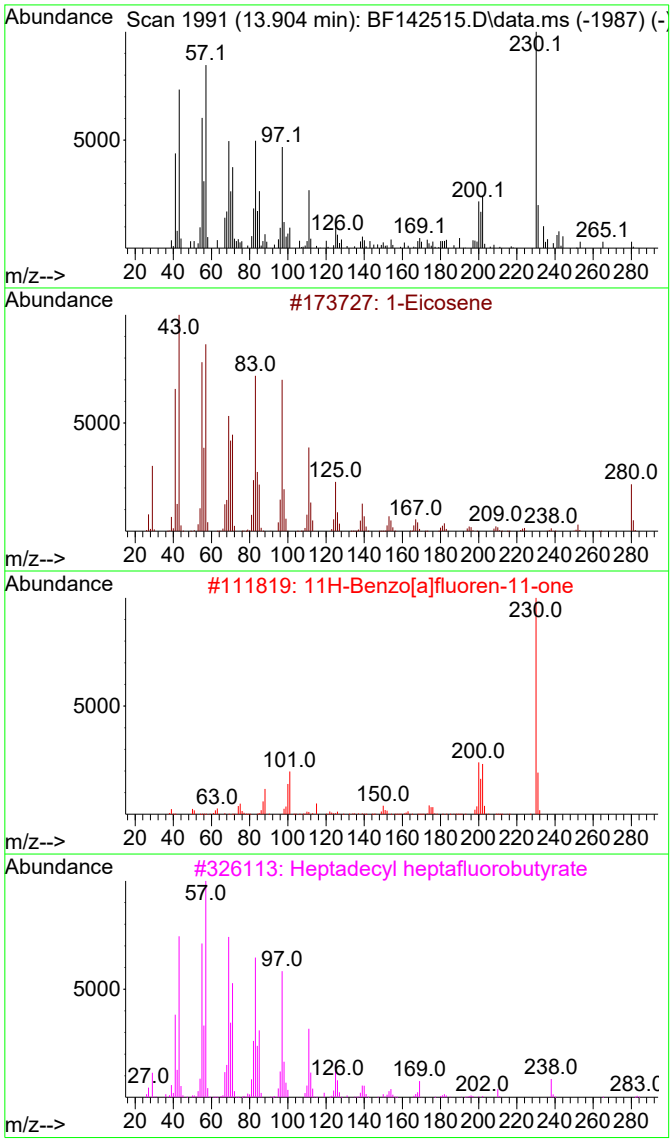
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

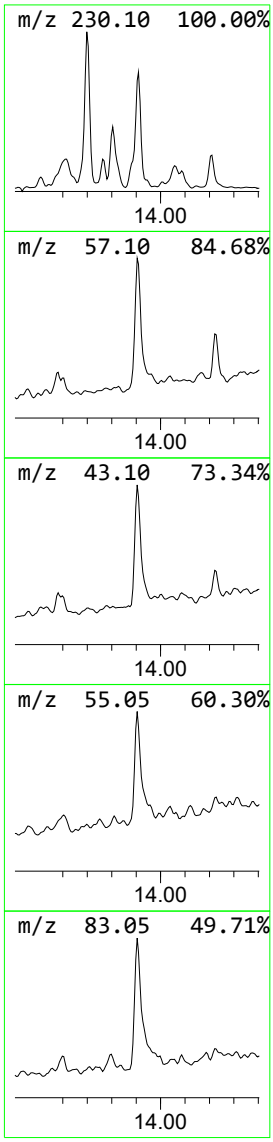
****

Peak Number 4 1-Eicosene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	2.16 ng	89231	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Eicosene	280	C20H40	003452-07-1	83
2	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	64
3	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	56
4	Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	55
5	Cycloeicosane	280	C20H40	000296-56-0	55





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

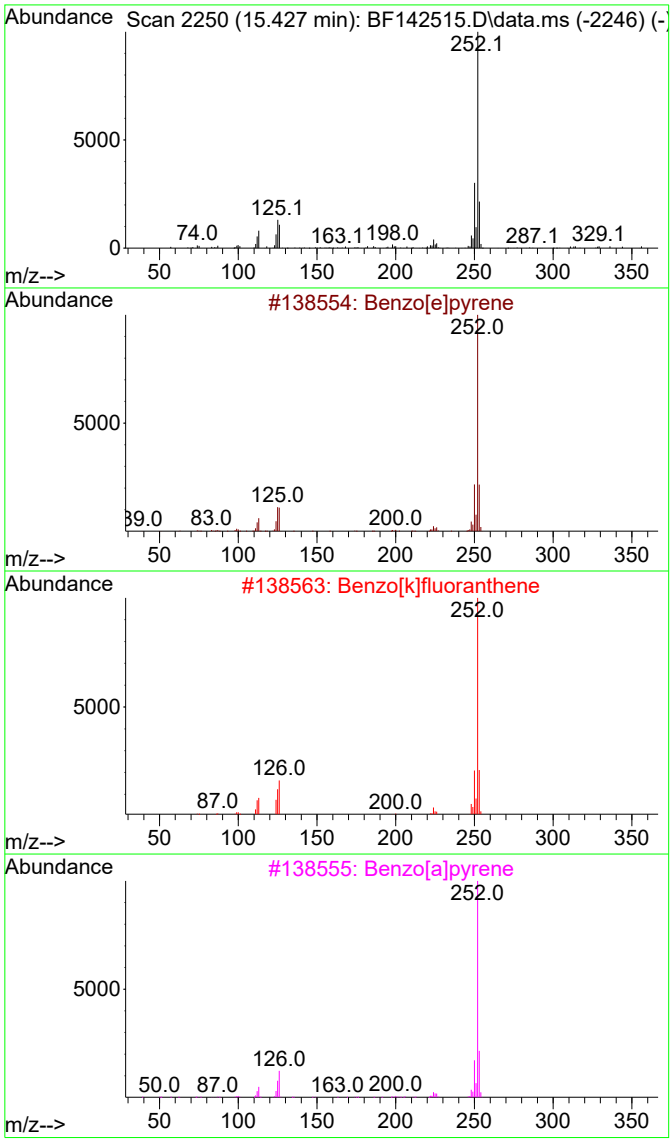
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

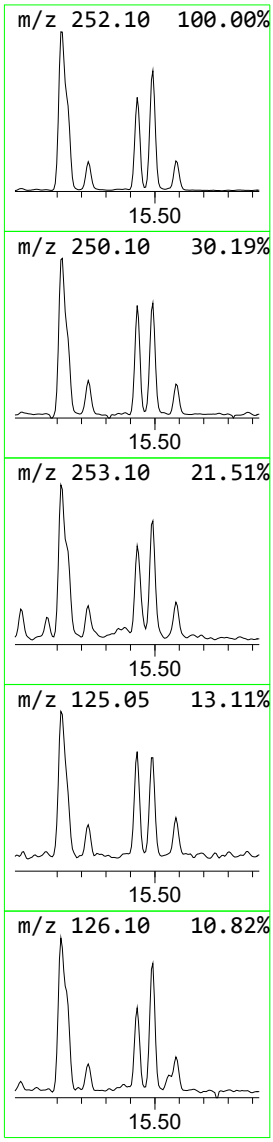
****

Peak Number 5 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.427	3.71 ng	84726	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
3	Benzo[a]pyrene	252	C20H12	000050-32-8	96
4	Benzo[b]fluoranthene	252	C20H12	000205-99-2	95
5	Perylene	252	C20H12	000198-55-0	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.110	5.5	ng	163668	1	6.898	590881	20.0
Benzophenone	10.645	4.1	ng	130805	3	9.934	642285	20.0
Anthracene, 2-m...	11.945	4.4	ng	157421	4	11.422	718276	20.0
1-Eicosene	13.904	2.2	ng	89231	5	14.063	826875	20.0
Benzo[e]pyrene	15.427	3.7	ng	84726	6	15.557	456477	20.0

Raw Data: **BF142506.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78
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
BF142506.D	1	05/20/25 09:45	05/22/25 13:11	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	420	ug/Kg
108-95-2	Phenol	28.3	U	28.3	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	31.1	U	31.1	220	ug/Kg
95-57-8	2-Chlorophenol	31.2	U	31.2	220	ug/Kg
95-48-7	2-Methylphenol	38.3	U	38.3	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	48.0	U	48.0	220	ug/Kg
98-86-2	Acetophenone	37.8	U	37.8	220	ug/Kg
65794-96-9	3+4-Methylphenols	52.6	U	52.6	420	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	60.7	U	60.7	100	ug/Kg
67-72-1	Hexachloroethane	22.5	U	22.5	220	ug/Kg
98-95-3	Nitrobenzene	23.4	U	23.4	220	ug/Kg
78-59-1	Isophorone	42.0	U	42.0	220	ug/Kg
88-75-5	2-Nitrophenol	74.5	U	74.5	220	ug/Kg
105-67-9	2,4-Dimethylphenol	82.9	U	82.9	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	39.4	U	39.4	220	ug/Kg
120-83-2	2,4-Dichlorophenol	36.2	U	36.2	220	ug/Kg
91-20-3	Naphthalene	29.1	U	29.1	220	ug/Kg
106-47-8	4-Chloroaniline	45.3	U	45.3	220	ug/Kg
87-68-3	Hexachlorobutadiene	32.4	U	32.4	220	ug/Kg
105-60-2	Caprolactam	66.7	U	66.7	420	ug/Kg
59-50-7	4-Chloro-3-methylphenol	36.7	U	36.7	220	ug/Kg
91-57-6	2-Methylnaphthalene	32.8	U	32.8	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	150	U	150	420	ug/Kg
88-06-2	2,4,6-Trichlorophenol	25.3	U	25.3	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	37.2	U	37.2	220	ug/Kg
92-52-4	1,1-Biphenyl	27.9	U	27.9	220	ug/Kg
91-58-7	2-Chloronaphthalene	28.8	U	28.8	220	ug/Kg
88-74-4	2-Nitroaniline	61.6	U	61.6	220	ug/Kg
131-11-3	Dimethylphthalate	34.7	U	34.7	220	ug/Kg

Raw Data: **BF142506.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78
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
BF142506.D	1	05/20/25 09:45	05/22/25 13:11	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	37.0	U	37.0	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	43.0	U	43.0	220	ug/Kg
99-09-2	3-Nitroaniline	58.9	U	58.9	220	ug/Kg
83-32-9	Acenaphthene	27.3	U	27.3	220	ug/Kg
51-28-5	2,4-Dinitrophenol	290	U	290	420	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	420	ug/Kg
132-64-9	Dibenzofuran	29.1	U	29.1	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	64.1	U	64.1	220	ug/Kg
84-66-2	Diethylphthalate	36.2	U	36.2	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	34.2	U	34.2	220	ug/Kg
86-73-7	Fluorene	32.4	U	32.4	220	ug/Kg
100-01-6	4-Nitroaniline	82.2	U	82.2	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	420	ug/Kg
86-30-6	n-Nitrosodiphenylamine	42.1	U	42.1	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	35.6	U	35.6	220	ug/Kg
118-74-1	Hexachlorobenzene	32.4	U	32.4	220	ug/Kg
1912-24-9	Atrazine	43.5	U	43.5	220	ug/Kg
87-86-5	Pentachlorophenol	65.7	U	65.7	420	ug/Kg
85-01-8	Phenanthrene	26.8	U	26.8	220	ug/Kg
120-12-7	Anthracene	42.6	U	42.6	220	ug/Kg
86-74-8	Carbazole	39.9	U	39.9	220	ug/Kg
84-74-2	Di-n-butylphthalate	61.3	U	61.3	220	ug/Kg
206-44-0	Fluoranthene	38.4	U	38.4	220	ug/Kg
129-00-0	Pyrene	46.1	U	46.1	220	ug/Kg
85-68-7	Butylbenzylphthalate	91.4	U	91.4	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	47.0	U	47.0	420	ug/Kg
56-55-3	Benzo(a)anthracene	29.4	U	29.4	220	ug/Kg
218-01-9	Chrysene	25.5	U	25.5	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	75.8	U	75.8	220	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	420	ug/Kg
205-99-2	Benzo(b)fluoranthene	24.3	U	24.3	220	ug/Kg

Raw Data: **BF142506.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78
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
BF142506.D	1	05/20/25 09:45	05/22/25 13:11	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	28.7	U	28.7	220	ug/Kg
50-32-8	Benzo(a)pyrene	37.8	U	37.8	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	37.2	U	37.2	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	35.1	U	35.1	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	32.9	U	32.9	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	32.8	U	32.8	220	ug/Kg
123-91-1	1,4-Dioxane	57.9	U	57.9	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	35.1	U	35.1	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	77.9		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	81.2		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	45.9		18 - 107	46%	SPK: 100
321-60-8	2-Fluorobiphenyl	44.9		20 - 109	45%	SPK: 100
118-79-6	2,4,6-Tribromophenol	83.7		10 - 116	56%	SPK: 150
1718-51-0	Terphenyl-d14	50.8		10 - 105	51%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	115000	6.898			
1146-65-2	Naphthalene-d8	439000	8.181			
15067-26-2	Acenaphthene-d10	235000	9.934			
1517-22-2	Phenanthrene-d10	407000	11.422			
1719-03-5	Chrysene-d12	208000	14.063			
1520-96-3	Perylene-d12	225000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	270	AB		5.12	ug/Kg
000119-61-9	Benzophenone	200	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	180	J		11.9	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	150	J		13.9	ug/Kg

Raw Data: **BF142506.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78
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
BF142506.D	1	05/20/25 09:45	05/22/25 13:11	PB168083

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

Sample Results: **BF142506.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

Quant Time: May 22 13:53:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	114998	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	438934	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	234734	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	406523	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	207782	20.000	ng	-0.01
86) Perylene-d12	15.557	264	225144	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	531675	77.892	ng	0.00
7) Phenol-d6	6.516	99	667202	81.201	ng	-0.02
23) Nitrobenzene-d5	7.457	82	369353	45.885	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	218064	83.702	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	785241	44.888	ng	-0.02
79) Terphenyl-d14	13.010	244	772849	50.829	ng	0.00
Target Compounds						Qvalue

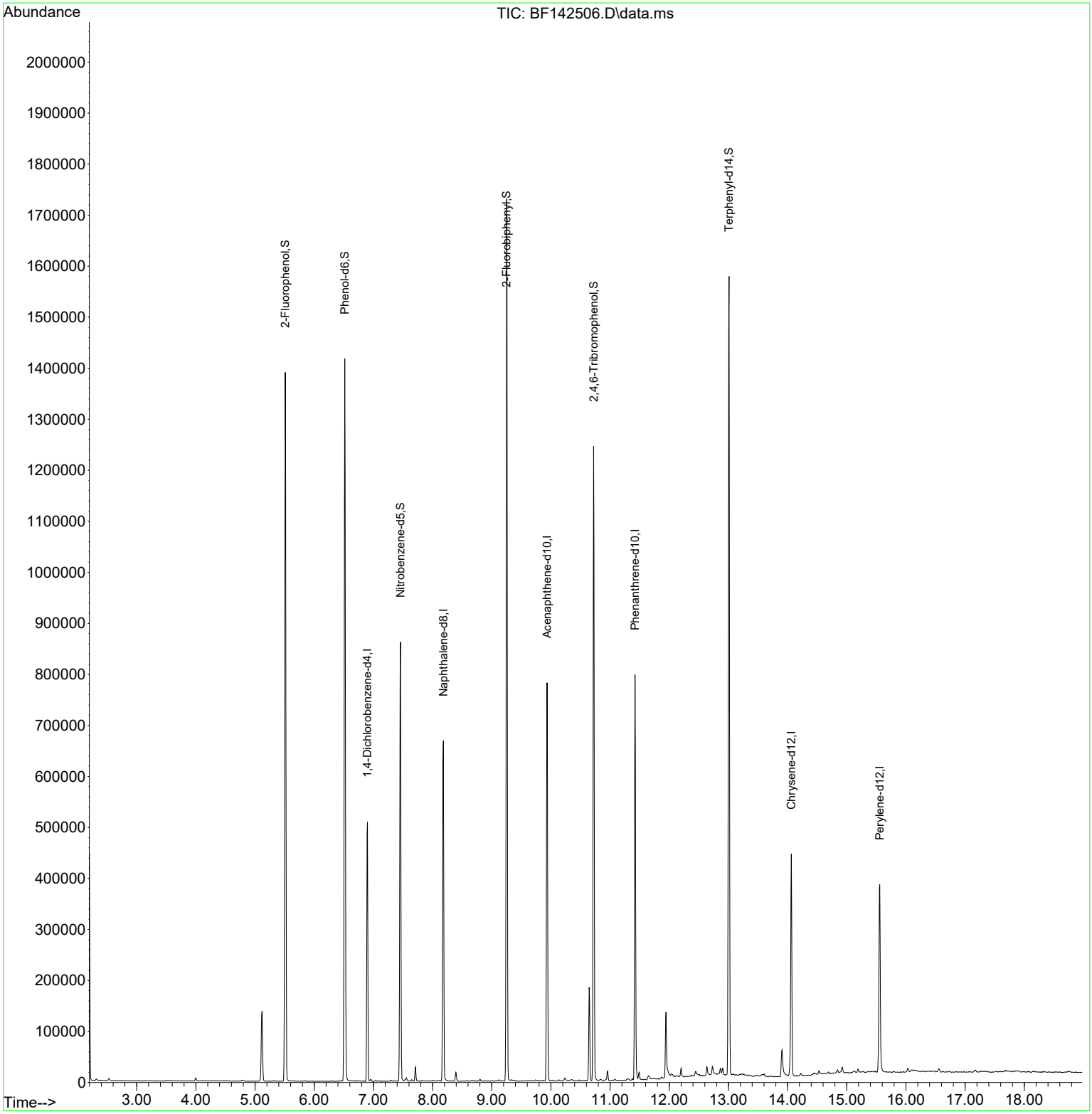
(#) = qualifier out of range (m) = manual integration (+) = signals summed

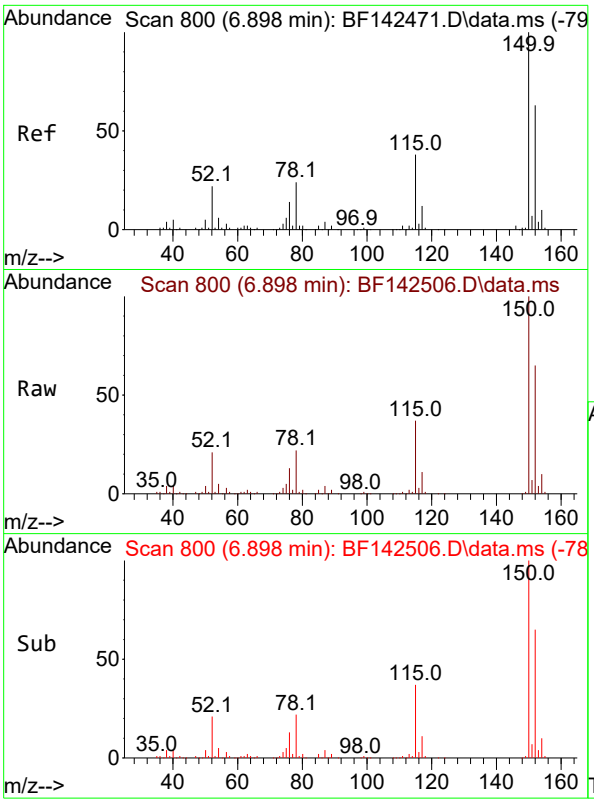
Sample Results: **BF142506.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

Quant Time: May 22 13:53:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



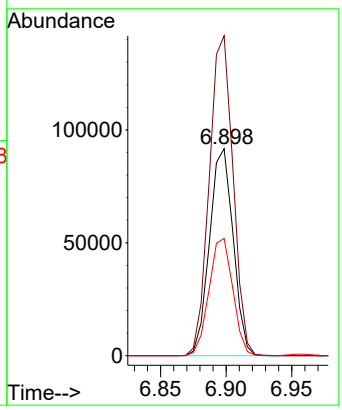


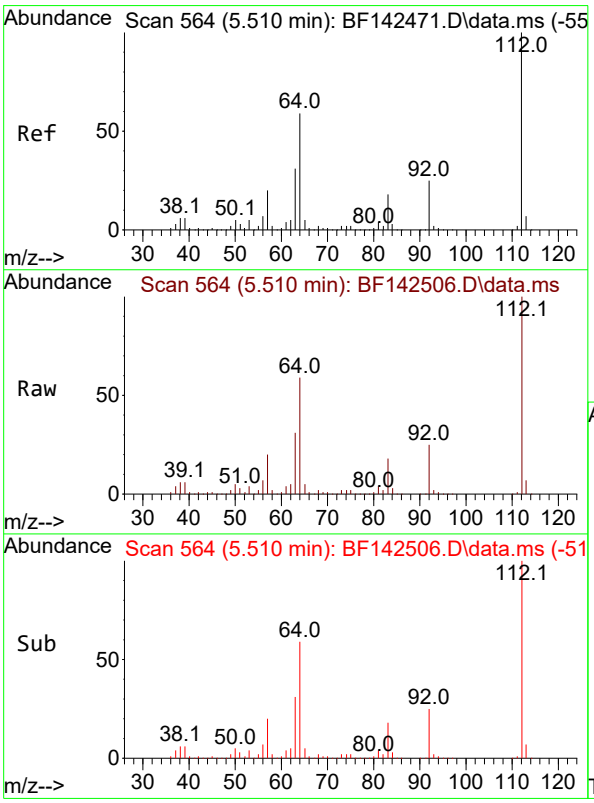
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Instrument :
BNA_F
ClientSampleId :
TP-18

Tgt Ion:152 Resp: 114998

Ion	Ratio	Lower	Upper
152	100		
150	154.5	128.2	192.4
115	56.6	48.3	72.5

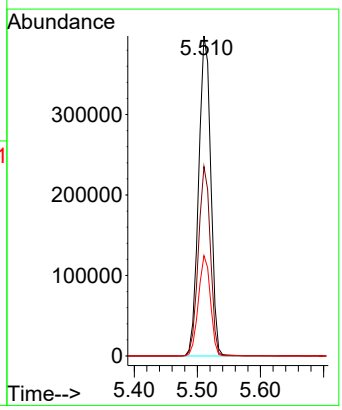


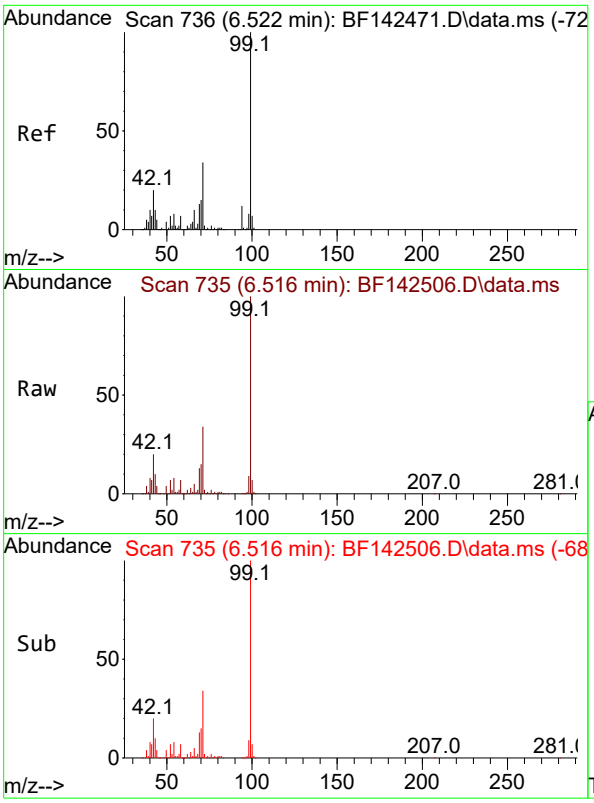


#5
2-Fluorophenol
Concen: 77.892 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Tgt Ion:112 Resp: 531675

Ion	Ratio	Lower	Upper
112	100		
64	59.2	47.5	71.3
63	31.3	24.9	37.3



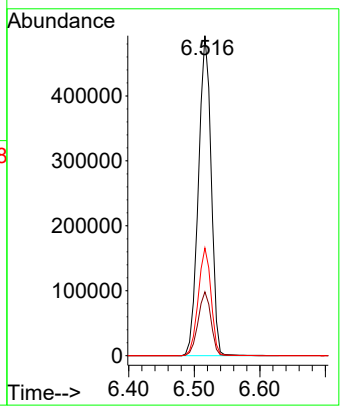


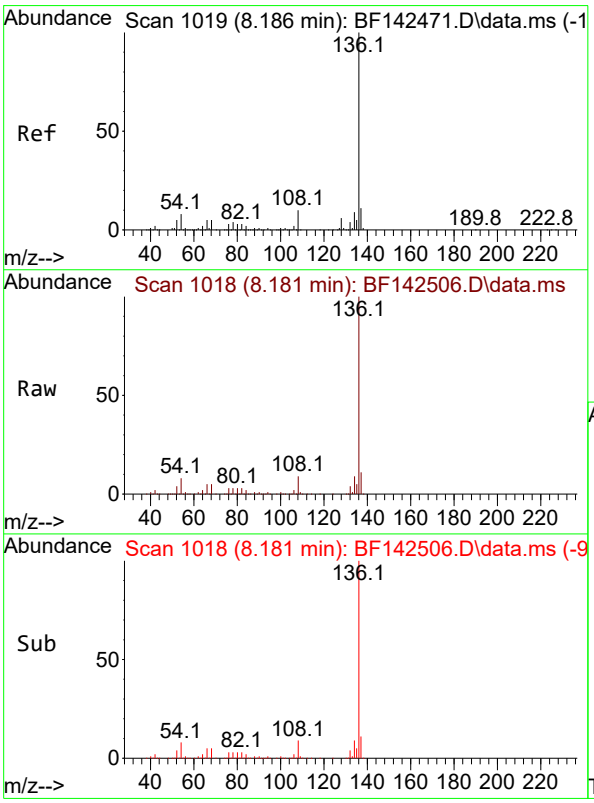
#7
Phenol-d6
Concen: 81.201 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Instrument :
BNA_F
ClientSampleId :
TP-18

Tgt Ion: 99 Resp: 667202

Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.2	24.2
71	33.7	27.3	40.9

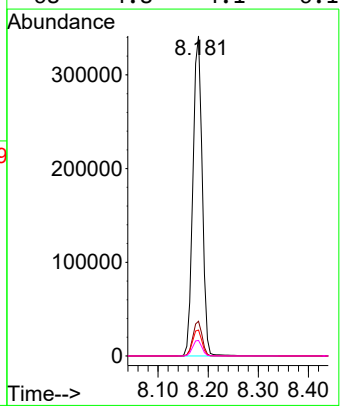


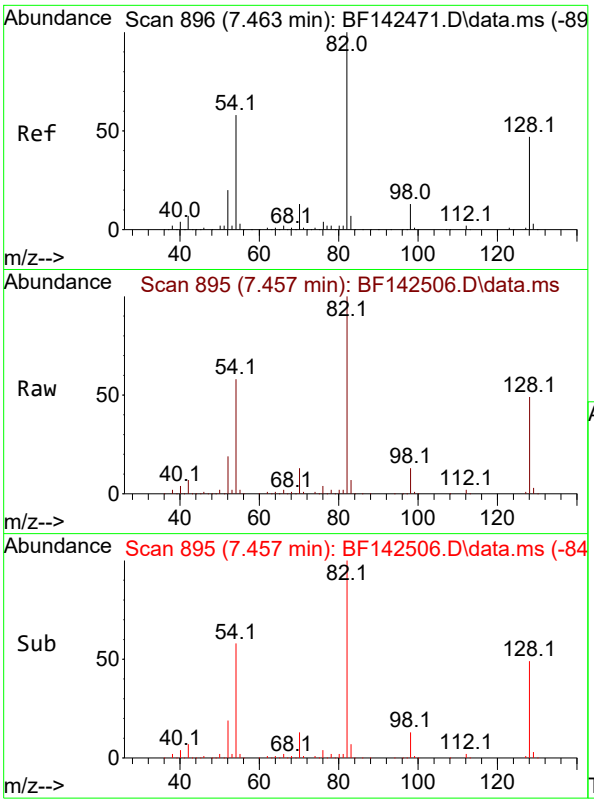


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Tgt Ion:136 Resp: 438934

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.1	6.6	10.0
68	4.8	4.1	6.1



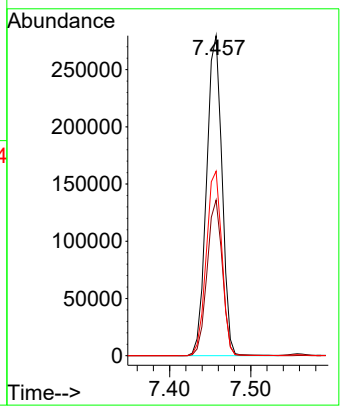


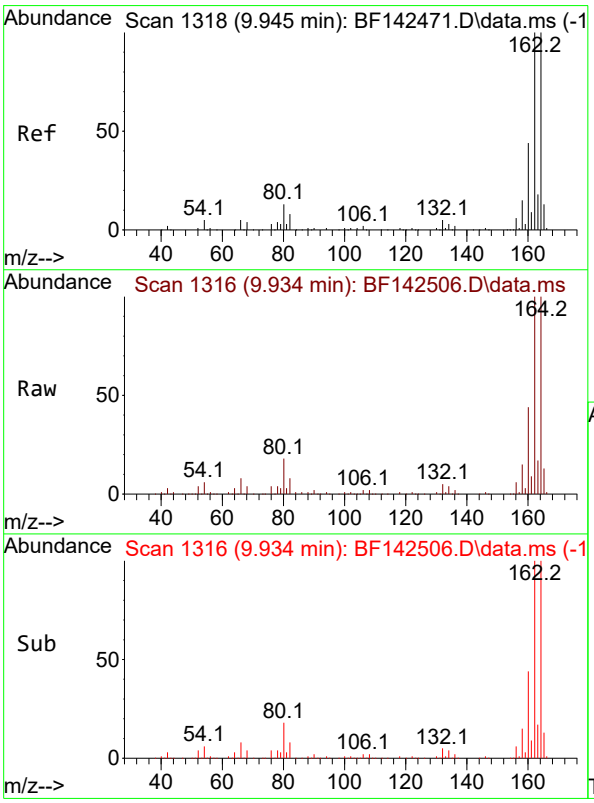
#23
Nitrobenzene-d5
Concen: 45.885 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Instrument :
BNA_F
ClientSampleId :
TP-18

Tgt Ion: 82 Resp: 369353

Ion	Ratio	Lower	Upper
82	100		
128	48.7	37.4	56.2
54	57.7	46.6	70.0

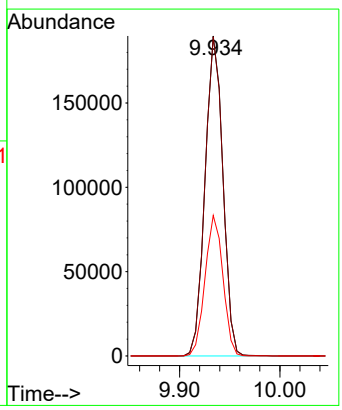


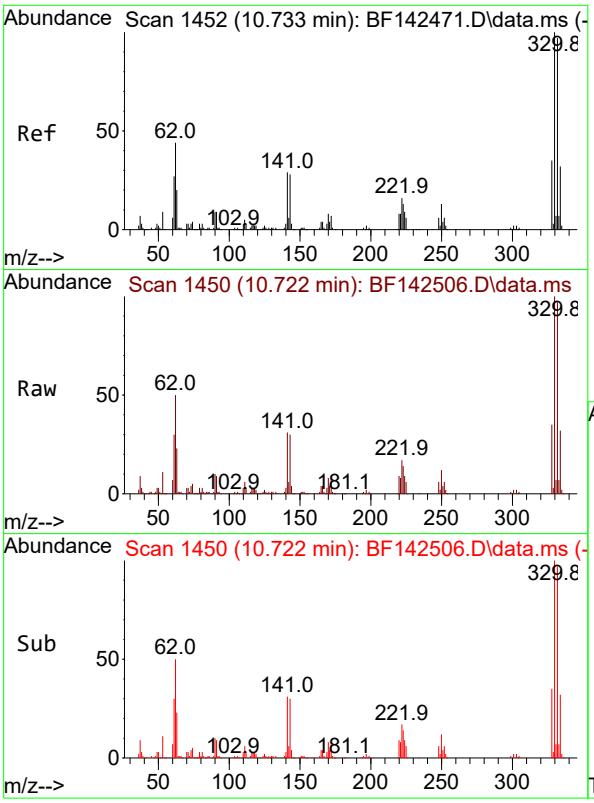


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.934 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Tgt Ion:164 Resp: 234734

Ion	Ratio	Lower	Upper
164	100		
162	99.7	80.2	120.4
160	43.9	35.6	53.4



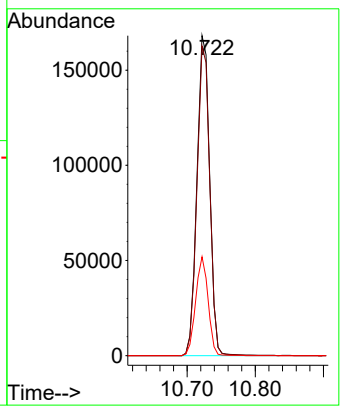


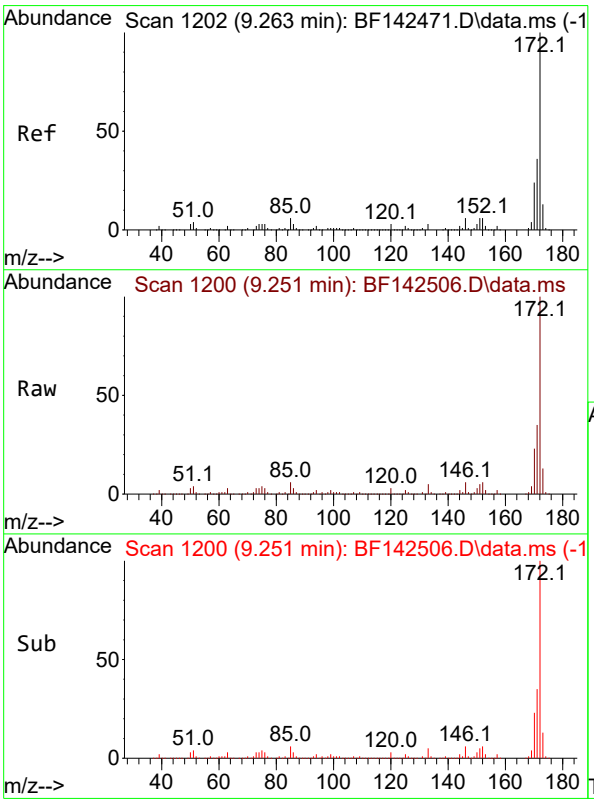
#42
2,4,6-Tribromophenol
Concen: 83.702 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Instrument :
BNA_F
ClientSampleId :
TP-18

Tgt Ion:330 Resp: 218064

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.6	116.4
141	30.1	24.6	36.8

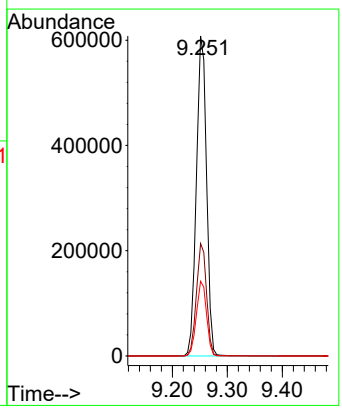


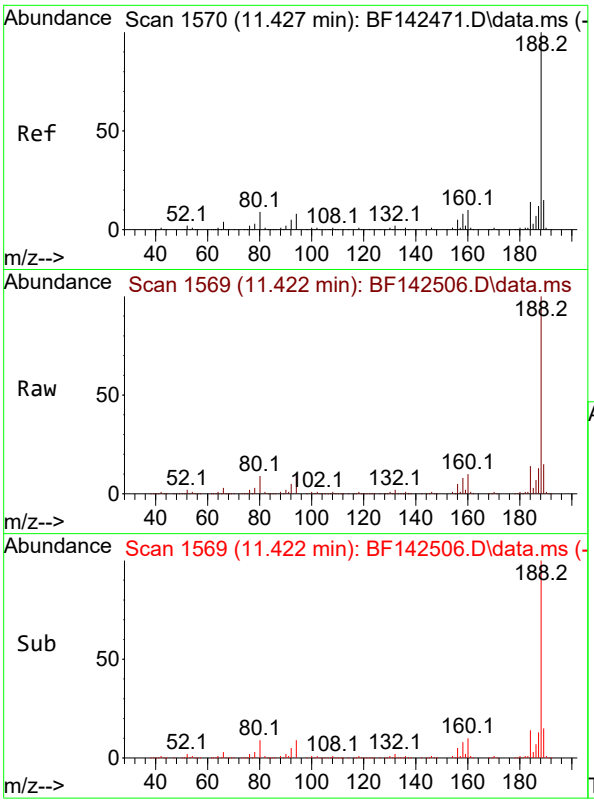


#45
2-Fluorobiphenyl
Concen: 44.888 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.017 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Tgt Ion:172 Resp: 785241

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.6	42.8
170	23.3	18.9	28.3



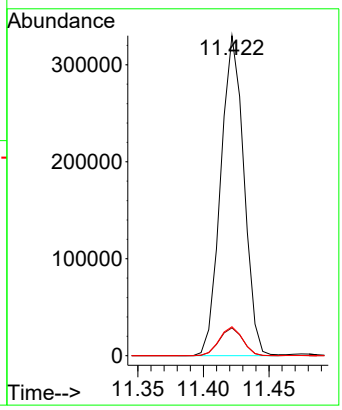


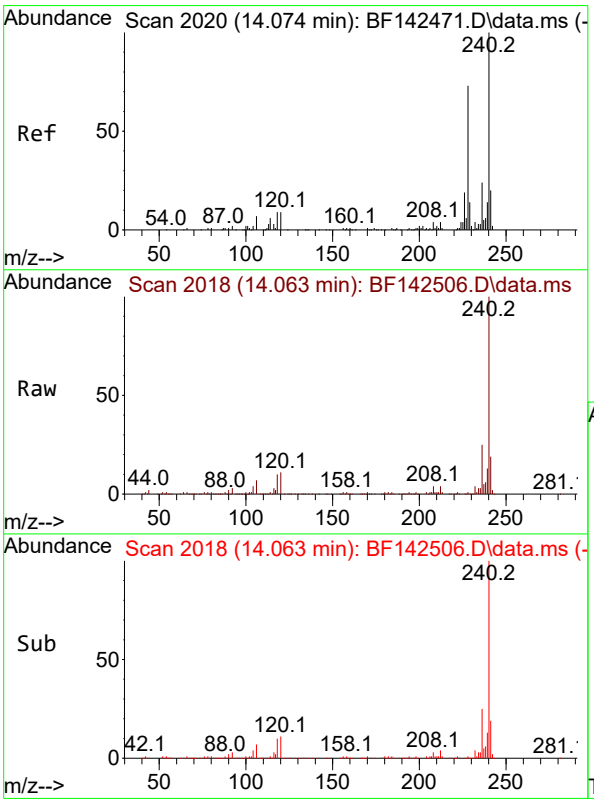
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Instrument :
BNA_F
ClientSampleId :
TP-18

Tgt Ion:188 Resp: 406523

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.6	10.0
80	9.0	7.4	11.0

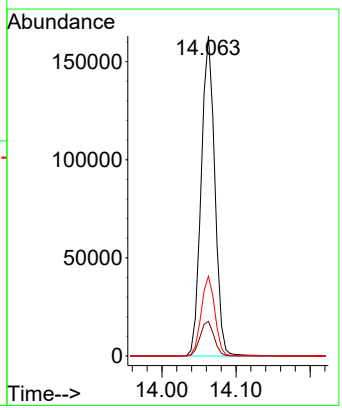


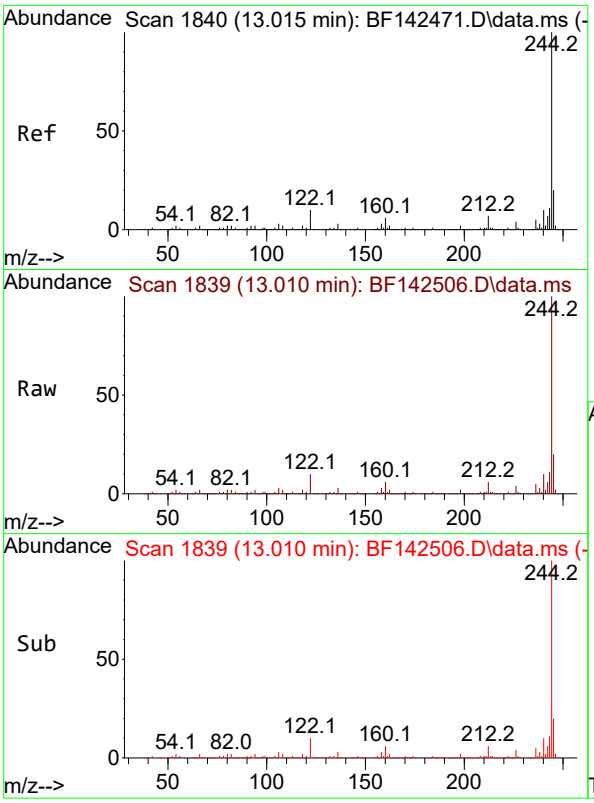


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Tgt Ion:240 Resp: 207782

Ion	Ratio	Lower	Upper
240	100		
120	10.8	7.5	11.3
236	24.9	19.6	29.4



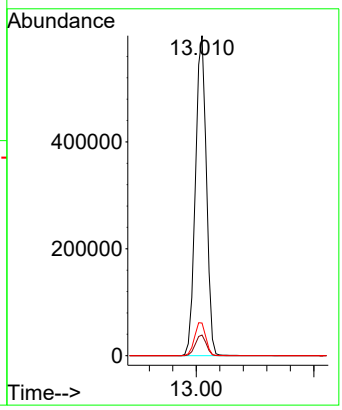


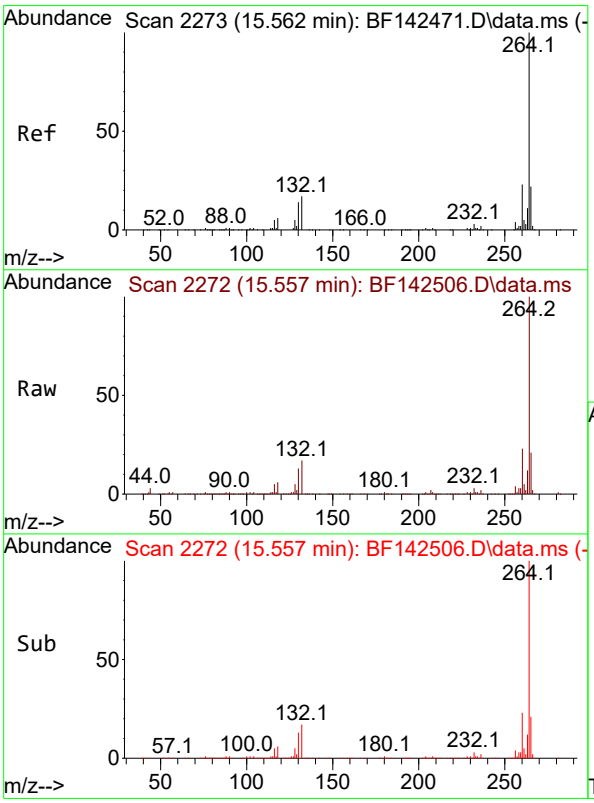
#79
Terphenyl-d14
Concen: 50.829 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Instrument :
BNA_F
ClientSampleId :
TP-18

Tgt Ion:244 Resp: 772849

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.3	7.9
122	10.2	8.2	12.2

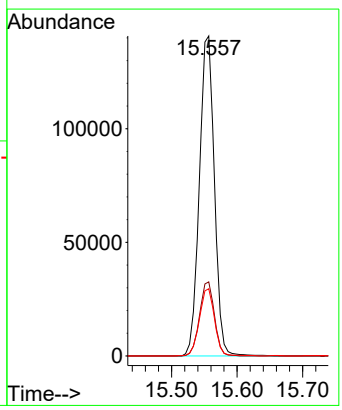




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Tgt Ion:264 Resp: 225144

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	21.0	17.7	26.5



Sample Results: **BF142506.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142506.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.116	486	497	505	rBV	137232	207101	9.41%	1.270%
2	5.510	558	564	569	rBV	1389343	1835699	83.45%	11.254%
3	6.516	728	735	749	rBV	1416255	1951034	88.69%	11.962%
4	6.898	794	800	805	rBV	508449	645890	29.36%	3.960%
5	7.457	888	895	900	rBV	860646	1133311	51.52%	6.948%
6	7.710	933	938	943	rBB	27060	33193	1.51%	0.204%
7	8.181	1012	1018	1034	rBV	667002	862162	39.19%	5.286%
8	8.392	1049	1054	1061	rVB2	17080	23042	1.05%	0.141%
9	9.251	1194	1200	1205	rBV	1729083	2199760	100.00%	13.486%
10	9.934	1311	1316	1321	rBV	780223	964739	43.86%	5.915%
11	10.645	1432	1437	1444	rBV	183266	227090	10.32%	1.392%
12	10.722	1444	1450	1455	rBV	1243747	1578941	71.78%	9.680%
13	10.957	1479	1490	1495	rBV2	18470	26902	1.22%	0.165%
14	11.422	1564	1569	1576	rBV	793753	996003	45.28%	6.106%
15	11.945	1651	1658	1670	rBV2	129838	213476	9.70%	1.309%
16	12.198	1697	1701	1710	rVB4	16989	23521	1.07%	0.144%
17	12.633	1771	1775	1784	rBV	17344	30592	1.39%	0.188%
18	12.727	1787	1791	1800	rVV3	15545	26618	1.21%	0.163%
19	13.010	1833	1839	1844	rBV	1564594	2032369	92.39%	12.460%
20	13.904	1986	1991	2002	rBV	51974	104377	4.74%	0.640%
21	14.063	2009	2018	2028	rVB	435606	593491	26.98%	3.639%
22	15.557	2265	2272	2285	rBV	367513	601587	27.35%	3.688%

Sum of corrected areas: 16310898

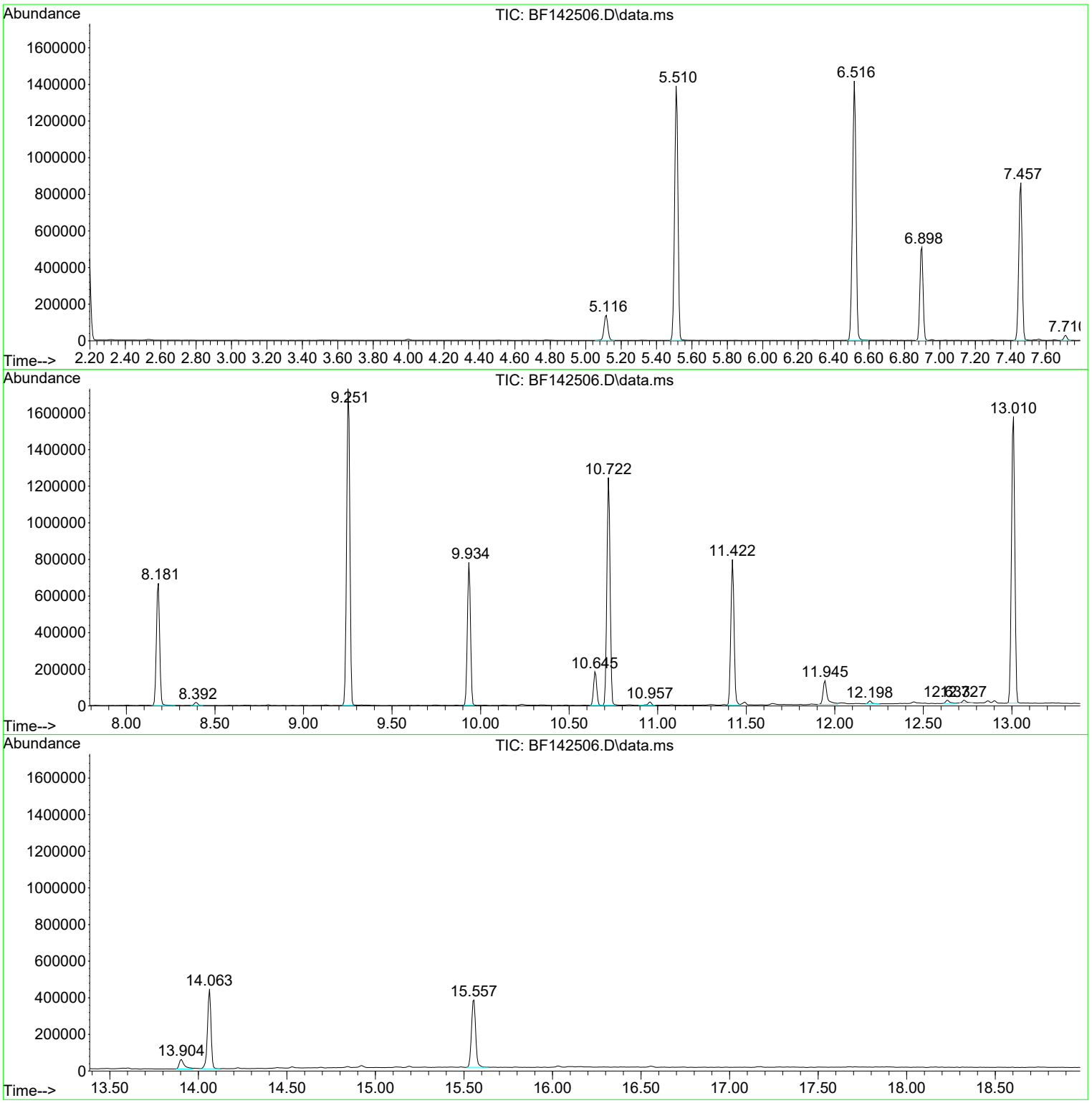
Sample Results: **BF142506.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.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\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

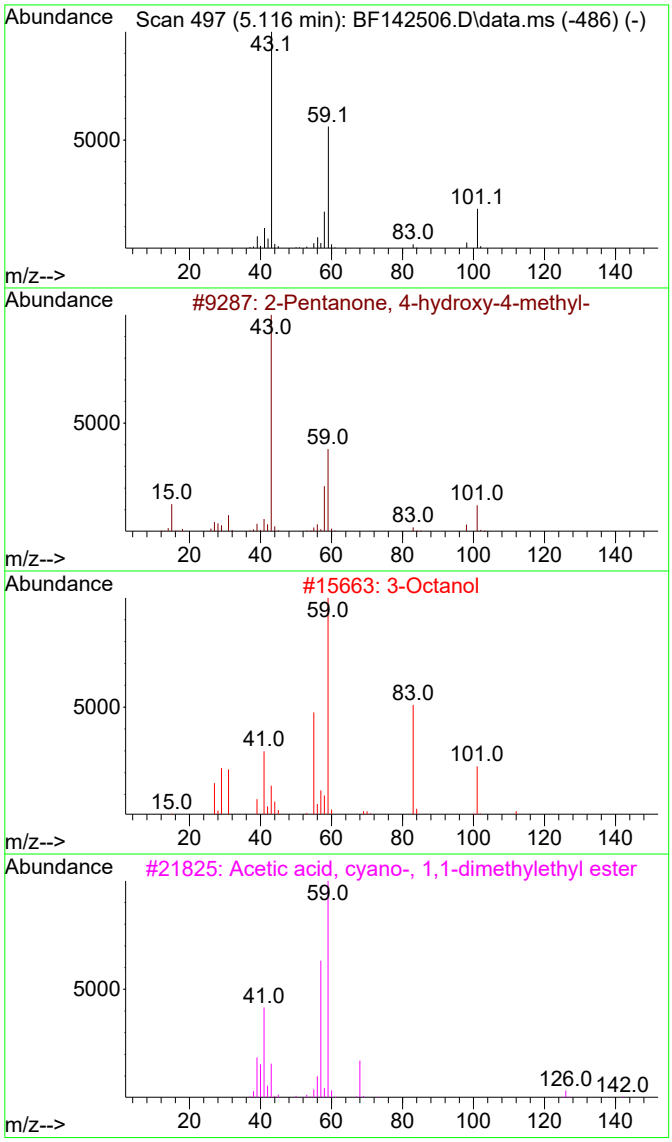
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

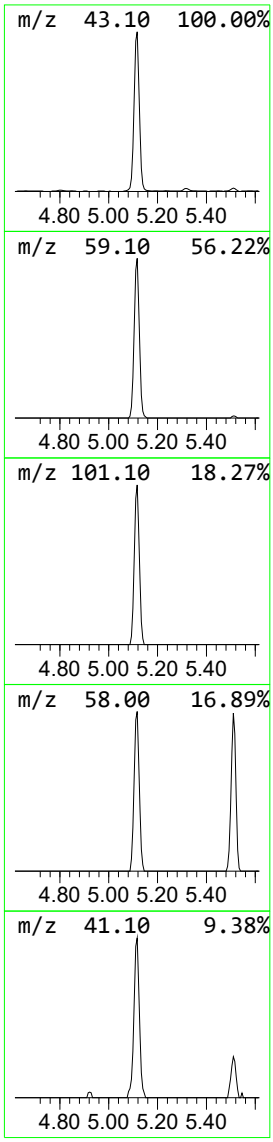
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	6.41 ng	207101	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	3-Octanol	130	C8H18O	000589-98-0	36
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Butyl aldoxime, 3-methyl-, syn-	101	C5H11NO	005780-40-5	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

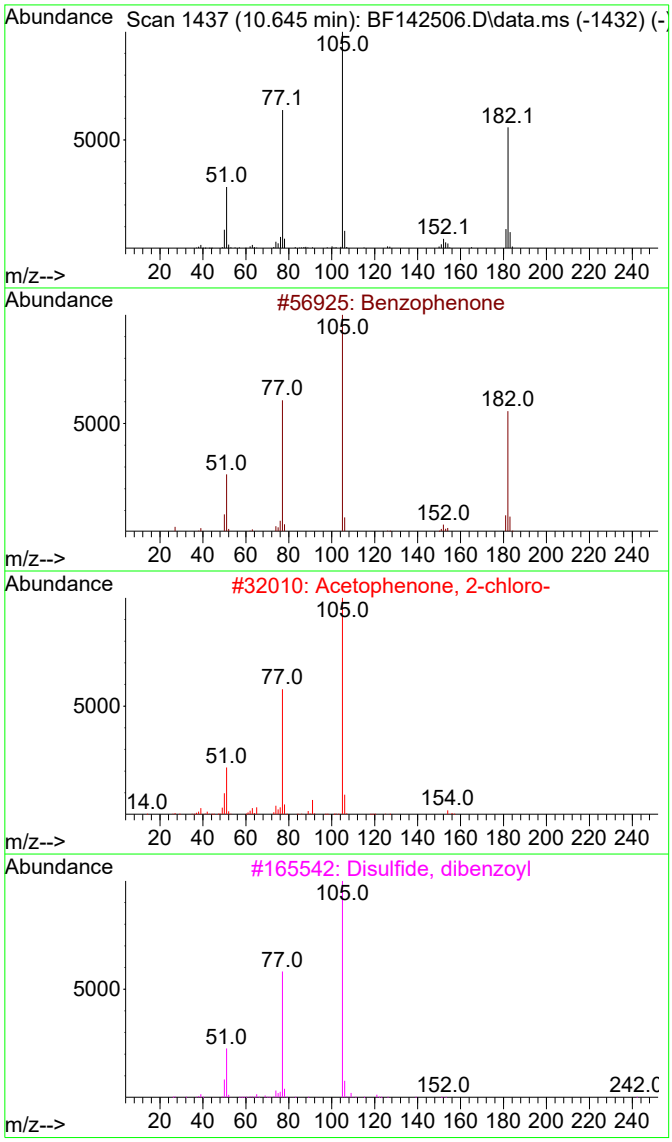
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

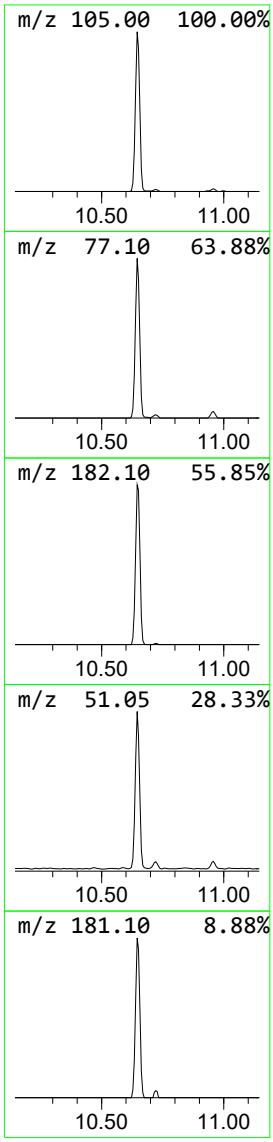
****

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	4.71 ng	227090	Acenaphthene-d10	9.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
3	Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	49
4	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	47
5	N-(1-Cyanovinyl)benzamide	172	C10H8N2O	1000186-19-1	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

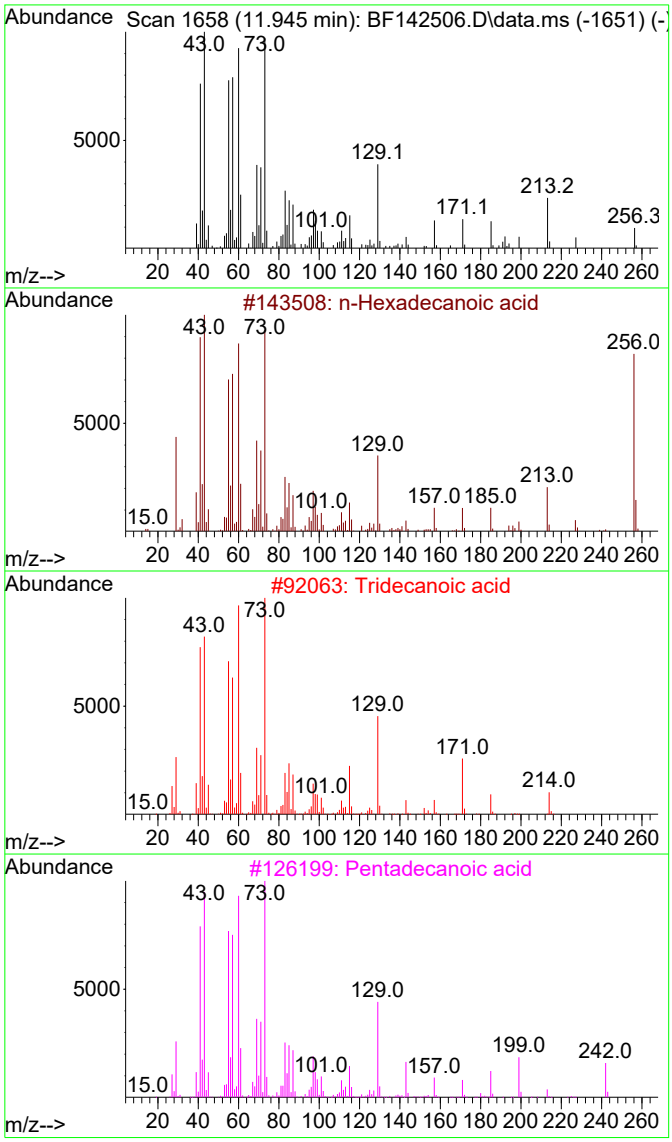
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

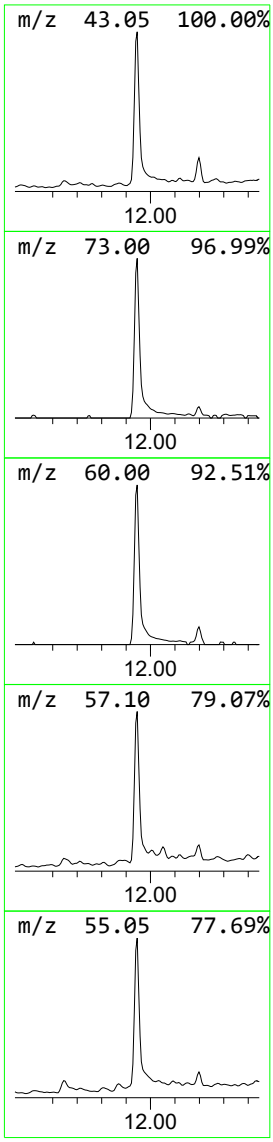
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	4.29 ng	213476	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	91
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5	n-Decanoic acid	172	C10H20O2	000334-48-5	58





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

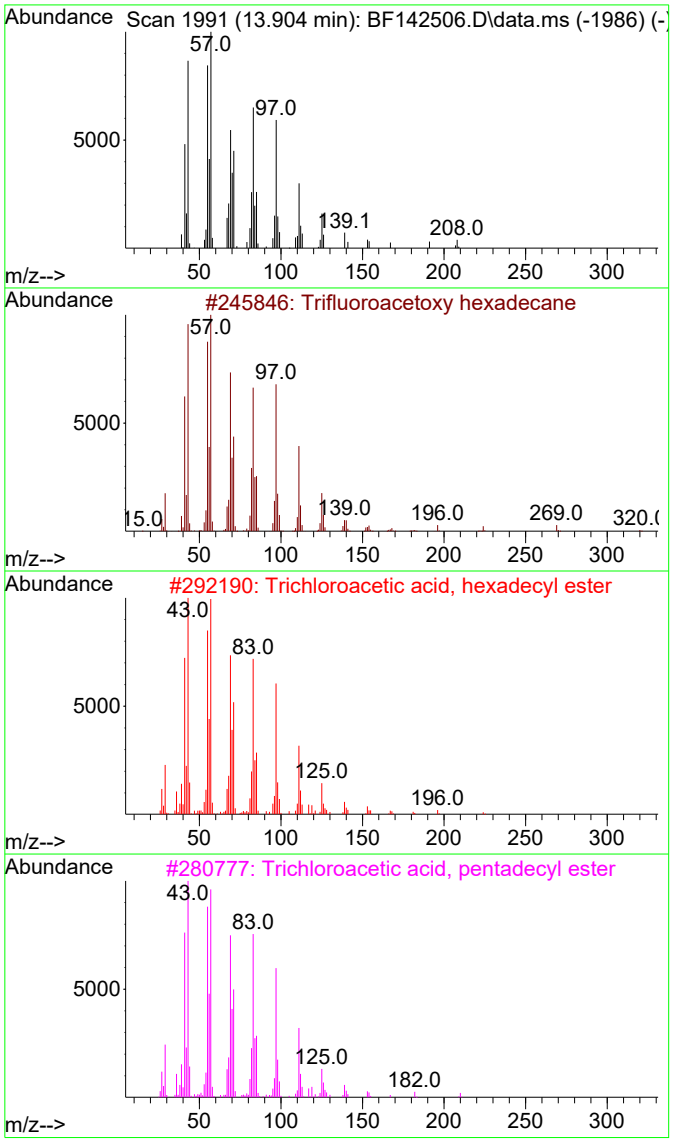
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

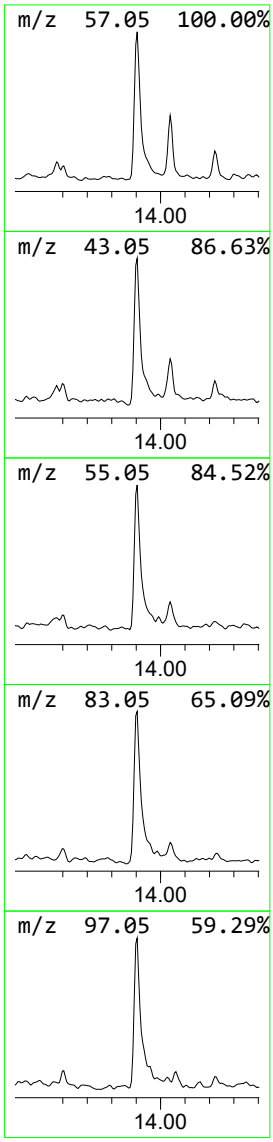
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Trifluoroacetoxy hexadecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	3.52 ng	104377	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	95
2	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	95
3	Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	94
4	1-Docosene	308	C22H44	001599-67-3	94
5	17-Pentatriacontene	491	C35H70	006971-40-0	91





Sample Results: **BF142506.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.116	6.4	ng	207101	1	6.898	645890	20.0
Benzophenone	10.645	4.7	ng	227090	3	9.934	964739	20.0
n-Hexadecanoic ...	11.945	4.3	ng	213476	4	11.422	996003	20.0
Trifluoroacetox...	13.904	3.5	ng	104377	5	14.063	593491	20.0

CALIBRATION SUMMARY

Raw Data

Alliance TECHNICAL GROUP

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG No.: Q2074

Instrument ID: BNA_F Calibration Date(s): 05/20/2025 05/20/2025

Calibration Time(s): 12:10 15:31

LAB FILE ID: RRF2.5 = BF142467.D RRF005 = BF142468.D RRF010 = BF142469.D
RRF020 = BF142470.D RRF040 = BF142471.D RRF050 = BF142472.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.264	1.214	1.225	1.125	1.220	1.187	5.0
Benzaldehyde		1.035	0.975	0.969	0.817	0.872	0.859	17.8
Phenol-d6		1.530	1.449	1.459	1.367	1.467	1.429	4.8
Phenol		1.716	1.621	1.646	1.530	1.657	1.608	4.8
bis(2-Chloroethyl)ether		1.202	1.155	1.168	1.108	1.209	1.157	3.5
2-Chlorophenol		1.345	1.293	1.315	1.252	1.338	1.293	3.4
2-Methylphenol		1.040	0.992	1.026	0.976	1.053	1.010	3.3
2,2-oxybis(1-Chloropropane)		2.082	1.978	1.983	1.868	2.011	1.944	5.1
Acetophenone		0.480	0.453	0.459	0.429	0.452	0.443	6.0
3+4-Methylphenols		1.412	1.319	1.337	1.246	1.337	1.293	6.6
n-Nitroso-di-n-propylamine	0.923	0.941	0.880	0.900	0.843	0.912	0.886	4.7
Nitrobenzene-d5		0.376	0.365	0.379	0.356	0.382	0.367	3.5
Hexachloroethane		0.533	0.503	0.523	0.489	0.529	0.507	4.2
Nitrobenzene		0.338	0.328	0.338	0.323	0.343	0.331	2.9
Isophorone		0.636	0.615	0.620	0.593	0.638	0.613	3.3
2-Nitrophenol		0.167	0.170	0.180	0.175	0.190	0.177	4.4
2,4-Dimethylphenol		0.315	0.315	0.318	0.303	0.325	0.312	3.2
bis(2-Chloroethoxy)methane		0.406	0.394	0.394	0.364	0.391	0.383	4.6
2,4-Dichlorophenol		0.288	0.282	0.290	0.276	0.300	0.283	3.7
Naphthalene		1.061	1.021	1.020	0.941	1.007	0.985	5.9
4-Chloroaniline		0.424	0.409	0.416	0.389	0.415	0.399	6.9
Hexachlorobutadiene		0.203	0.192	0.197	0.187	0.198	0.192	4.5
Caprolactam		0.081	0.076	0.083	0.079	0.085	0.080	4.3
4-Chloro-3-methylphenol		0.304	0.290	0.299	0.282	0.301	0.291	4.0
2-Methylnaphthalene		0.679	0.638	0.646	0.590	0.631	0.620	6.6
Hexachlorocyclopentadiene		0.318	0.350	0.383	0.393	0.430	0.387	10.6
2,4,6-Trichlorophenol		0.387	0.373	0.406	0.371	0.406	0.387	3.7
2-Fluorobiphenyl		1.726	1.619	1.558	1.387	1.480	1.490	10.5
2,4,5-Trichlorophenol		0.410	0.411	0.416	0.395	0.437	0.408	4.3
1,1-Biphenyl		1.672	1.605	1.595	1.480	1.595	1.552	5.8
2-Chloronaphthalene		1.218	1.170	1.177	1.094	1.183	1.146	4.8
2-Nitroaniline		0.333	0.318	0.338	0.324	0.354	0.331	3.7
Dimethylphthalate		1.441	1.340	1.367	1.255	1.366	1.320	6.2
Acenaphthylene		2.064	1.982	2.027	1.851	1.998	1.936	5.8

All other compounds must meet a minimum RRF of 0.010.

Raw Data

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG No.: Q2074

Instrument ID: BNA_F Calibration Date(s): 05/20/2025 05/20/2025

Calibration Time(s): 12:10 15:31

LAB FILE ID: RRF2.5 = BF142467.D RRF005 = BF142468.D RRF010 = BF142469.D
RRF020 = BF142470.D RRF040 = BF142471.D RRF050 = BF142472.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.290	0.283	0.289	0.280	0.302	0.285	3.7
3-Nitroaniline		0.320	0.309	0.328	0.299	0.330	0.311	5.0
Acenaphthene		1.259	1.222	1.227	1.120	1.223	1.182	5.7
2,4-Dinitrophenol			0.110	0.137	0.149	0.169	0.147	14.4
4-Nitrophenol		0.221	0.217	0.242	0.227	0.252	0.230	5.6
Dibenzofuran		1.886	1.766	1.768	1.606	1.736	1.701	7.4
2,4-Dinitrotoluene		0.372	0.367	0.387	0.364	0.398	0.372	4.6
Diethylphthalate		1.422	1.310	1.359	1.231	1.343	1.289	7.5
4-Chlorophenyl-phenylether		0.724	0.678	0.676	0.609	0.653	0.646	8.3
Fluorene		1.477	1.399	1.372	1.231	1.343	1.314	8.9
4-Nitroaniline		0.303	0.283	0.303	0.277	0.294	0.282	7.0
4,6-Dinitro-2-methylphenol		0.086	0.094	0.110	0.115	0.129	0.112	14.7
n-Nitrosodiphenylamine		0.712	0.682	0.696	0.649	0.697	0.684	3.3
2,4,6-Tribromophenol		0.230	0.225	0.234	0.211	0.233	0.222	5.4
4-Bromophenyl-phenylether		0.240	0.235	0.239	0.222	0.246	0.236	3.5
Hexachlorobenzene		0.265	0.267	0.263	0.251	0.273	0.262	3.2
Atrazine		0.184	0.174	0.186	0.178	0.196	0.182	4.3
Pentachlorophenol		0.130	0.135	0.149	0.147	0.162	0.148	7.9
Phenanthrene		1.196	1.094	1.100	1.012	1.085	1.069	7.0
Anthracene		1.191	1.132	1.124	1.036	1.110	1.091	6.1
Carbazole		1.030	0.968	0.982	0.889	0.950	0.933	7.4
Di-n-butylphthalate		1.108	1.039	1.083	0.976	1.059	1.021	7.0
Fluoranthene		1.177	1.081	1.052	0.938	0.997	0.999	11.4
Pyrene		1.929	1.967	2.066	1.859	1.959	1.866	9.8
Terphenyl-d14		1.624	1.582	1.660	1.423	1.492	1.464	12.8
Butylbenzylphthalate		0.462	0.453	0.525	0.526	0.575	0.516	8.5
3,3-Dichlorobenzidine		0.360	0.364	0.402	0.407	0.444	0.405	8.3
Benzo(a)anthracene		1.424	1.287	1.403	1.278	1.391	1.336	5.4
Chrysene		1.222	1.204	1.193	1.145	1.255	1.200	3.2
Bis(2-ethylhexyl)phthalate		0.510	0.548	0.618	0.673	0.765	0.660	15.9
Di-n-octyl phthalate			0.958	1.108	1.266	1.432	1.290	17.3
Benzo(b)fluoranthene		1.317	1.105	1.293	1.126	1.209	1.184	7.6
Benzo(k)fluoranthene		1.191	1.166	1.032	1.042	1.178	1.109	6.7
Benzo(a)pyrene		1.154	1.081	1.114	1.081	1.185	1.116	4.0
Indeno(1,2,3-cd)pyrene		1.421	1.495	1.583	1.448	1.583	1.501	4.6

All other compounds must meet a minimum RRF of 0.010.

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG No.: Q2074

Instrument ID: BNA_F Calibration Date(s): 05/20/2025 05/20/2025

Calibration Time(s): 12:10 15:31

LAB FILE ID: RRF2.5 = BF142467.D RRF005 = BF142468.D RRF010 = BF142469.D
RRF020 = BF142470.D RRF040 = BF142471.D RRF050 = BF142472.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo(a,h)anthracene		1.152	1.228	1.275	1.184	1.290	1.218	4.7
Benzo(g,h,i)perylene		1.154	1.220	1.270	1.180	1.299	1.218	4.6
1,2,4,5-Tetrachlorobenzene		0.592	0.580	0.588	0.552	0.592	0.574	3.4
1,4-Dioxane		0.493	0.460	0.474	0.458	0.500	0.475	3.8
2,3,4,6-Tetrachlorophenol		0.347	0.336	0.360	0.333	0.361	0.341	4.7

All other compounds must meet a minimum RRF of 0.010.

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue May 20 16:26:47 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF142467.D 5 =BF142468.D 10 =BF142469.D 20 =BF142470.D 40 =BF142471.D 50 =BF142472.D 60 =BF142473.D 80 =BF1424
74.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.493	0.460	0.474	0.458	0.500	0.486	0.456	0.475	3.79
3)		Pyridine		1.237	1.150	1.212	1.170	1.273	1.234	1.190	1.210	3.52
4)		n-Nitrosodimet...		0.612	0.593	0.627	0.619	0.673	0.652	0.621	0.628	4.21
5)	S	2-Fluorophenol		1.264	1.214	1.225	1.125	1.220	1.164	1.098	1.187	5.03
6)		Aniline		2.044	1.889	1.963	1.844	1.993	1.910	1.808	1.921	4.35
7)	S	Phenol-d6		1.530	1.449	1.459	1.367	1.467	1.403	1.328	1.429	4.77
8)		2-Chlorophenol		1.345	1.293	1.315	1.252	1.338	1.285	1.223	1.293	3.44
9)		Benzaldehyde		1.035	0.975	0.969	0.817	0.872	0.758	0.591	0.859	17.81
10)	C	Phenol		1.716	1.621	1.646	1.530	1.657	1.597	1.487	1.608	4.85
11)		bis(2-Chloroet...		1.202	1.155	1.168	1.108	1.209	1.156	1.105	1.157	3.52
12)		1,3-Dichlorobe...		1.562	1.470	1.473	1.389	1.482	1.407	1.317	1.443	5.48
13)	C	1,4-Dichlorobe...		1.540	1.476	1.491	1.407	1.495	1.430	1.335	1.453	4.70
14)		1,2-Dichlorobe...		1.495	1.405	1.436	1.327	1.432	1.357	1.284	1.391	5.20
15)		Benzyl Alcohol		1.059	1.024	1.058	1.021	1.131	1.073	1.026	1.056	3.69
16)		2,2'-oxybis(1-...		2.082	1.978	1.983	1.868	2.011	1.898	1.786	1.944	5.11
17)		2-Methylphenol		1.040	0.992	1.026	0.976	1.053	1.015	0.965	1.010	3.27
18)		Hexachloroethane		0.533	0.503	0.523	0.489	0.529	0.497	0.477	0.507	4.23
19)	P	n-Nitroso-di-n...	0.923	0.941	0.880	0.900	0.843	0.912	0.866	0.819	0.886	4.69
20)		3+4-Methylphenols		1.412	1.319	1.337	1.246	1.337	1.250	1.149	1.293	6.59
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.480	0.453	0.459	0.429	0.452	0.428	0.399	0.443	5.98
23)	S	Nitrobenzene-d5		0.376	0.365	0.379	0.356	0.382	0.363	0.347	0.367	3.51
24)		Nitrobenzene		0.338	0.328	0.338	0.323	0.343	0.331	0.316	0.331	2.94
25)		Isophorone		0.636	0.615	0.620	0.593	0.638	0.607	0.585	0.613	3.26
26)	C	2-Nitrophenol		0.167	0.170	0.180	0.175	0.190	0.182	0.173	0.177	4.44
27)		2,4-Dimethylph...		0.315	0.315	0.318	0.303	0.325	0.312	0.295	0.312	3.22
28)		bis(2-Chloroet...		0.406	0.394	0.394	0.364	0.391	0.375	0.358	0.383	4.63
29)	C	2,4-Dichloroph...		0.288	0.282	0.290	0.276	0.300	0.283	0.266	0.283	3.74
30)		1,2,4-Trichlor...		0.325	0.313	0.317	0.295	0.320	0.300	0.284	0.308	4.89
31)		Naphthalene		1.061	1.021	1.020	0.941	1.007	0.953	0.891	0.985	5.94
32)		Benzoic acid			0.153	0.176	0.188	0.211	0.209	0.201	0.190	11.73
33)		4-Chloroaniline		0.424	0.409	0.416	0.389	0.415	0.397	0.343	0.399	6.87
34)	C	Hexachlorobuta...		0.203	0.192	0.197	0.187	0.198	0.192	0.176	0.192	4.52
35)		Caprolactam		0.081	0.076	0.083	0.079	0.085	0.078	0.076	0.080	4.29
36)	C	4-Chloro-3-met...		0.304	0.290	0.299	0.282	0.301	0.287	0.271	0.291	4.02
37)		2-Methylnaphth...		0.679	0.638	0.646	0.590	0.631	0.598	0.556	0.620	6.62
38)		1-Methylnaphth...		0.703	0.668	0.672	0.615	0.650	0.611	0.566	0.641	7.19

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF052025.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.592	0.580	0.588	0.552	0.592	0.573	0.544	0.574	3.39
41)	P	Hexachlorocycl...	0.318	0.350	0.383	0.393	0.430	0.425	0.411	0.387	10.57
42)	S	2,4,6-Tribromo...	0.230	0.225	0.234	0.211	0.233	0.218	0.202	0.222	5.39
43)	C	2,4,6-Trichlor...	0.387	0.373	0.406	0.371	0.406	0.388	0.379	0.387	3.69
44)		2,4,5-Trichlor...	0.410	0.411	0.416	0.395	0.437	0.408	0.381	0.408	4.27
45)	S	2-Fluorobiphenyl	1.726	1.619	1.558	1.387	1.480	1.396	1.268	1.490	10.46
46)		1,1'-Biphenyl	1.672	1.605	1.595	1.480	1.595	1.507	1.408	1.552	5.82
47)		2-Chloronaphth...	1.218	1.170	1.177	1.094	1.183	1.122	1.061	1.146	4.84
48)		2-Nitroaniline	0.333	0.318	0.338	0.324	0.354	0.332	0.320	0.331	3.72
49)		Acenaphthylene	2.064	1.982	2.027	1.851	1.998	1.885	1.745	1.936	5.85
50)		Dimethylphthalate	1.441	1.340	1.367	1.255	1.366	1.256	1.211	1.320	6.16
51)		2,6-Dinitrotol...	0.290	0.283	0.289	0.280	0.302	0.281	0.268	0.285	3.74
52)	C	Acenaphthene	1.259	1.222	1.227	1.120	1.223	1.146	1.077	1.182	5.72
53)		3-Nitroaniline	0.320	0.309	0.327	0.299	0.330	0.305	0.287	0.311	5.02
54)	P	2,4-Dinitrophenol		0.110	0.137	0.149	0.169	0.160	0.158	0.147	14.36
55)		Dibenzofuran	1.886	1.766	1.768	1.606	1.736	1.635	1.509	1.701	7.38
56)	P	4-Nitrophenol	0.221	0.217	0.242	0.227	0.252	0.229	0.220	0.230	5.57
57)		2,4-Dinitrotol...	0.372	0.367	0.387	0.364	0.398	0.372	0.344	0.372	4.62
58)		Fluorene	1.477	1.399	1.372	1.231	1.343	1.238	1.140	1.314	8.85
59)		2,3,4,6-Tetrac...	0.347	0.336	0.360	0.333	0.361	0.333	0.317	0.341	4.71
60)		Diethylphthalate	1.422	1.310	1.359	1.231	1.343	1.218	1.140	1.289	7.51
61)		4-Chlorophenyl...	0.724	0.678	0.676	0.609	0.653	0.612	0.566	0.646	8.25
62)		4-Nitroaniline	0.303	0.283	0.303	0.277	0.294	0.265	0.251	0.282	6.95
63)		Azobenzene	1.239	1.194	1.188	1.107	1.197	1.123	1.055	1.158	5.55
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.086	0.094	0.110	0.115	0.129	0.125	0.123	0.112	14.72
66)	c	n-Nitrosodiphe...	0.712	0.682	0.696	0.649	0.697	0.694	0.660	0.684	3.30
67)		4-Bromophenyl-...	0.240	0.235	0.239	0.222	0.246	0.243	0.230	0.236	3.45
68)		Hexachlorobenzene	0.265	0.267	0.263	0.251	0.273	0.262	0.250	0.262	3.19
69)		Atrazine	0.184	0.174	0.186	0.178	0.196	0.181	0.174	0.182	4.29
70)	C	Pentachlorophenol	0.130	0.135	0.149	0.147	0.162	0.157	0.154	0.148	7.88
71)		Phenanthrene	1.196	1.094	1.100	1.012	1.085	1.033	0.964	1.069	7.00
72)		Anthracene	1.191	1.132	1.124	1.036	1.110	1.048	0.996	1.091	6.15
73)		Carbazole	1.030	0.968	0.982	0.889	0.950	0.877	0.832	0.933	7.39
74)		Di-n-butylphth...	1.108	1.039	1.083	0.976	1.059	0.974	0.908	1.021	6.95
75)	C	Fluoranthene	1.177	1.081	1.052	0.938	0.997	0.901	0.846	0.999	11.41
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.670	0.782	0.903	0.797	0.805	0.698	0.556	0.744	15.12
78)		Pyrene	1.929	1.967	2.066	1.859	1.959	1.773	1.507	1.866	9.79
79)	S	Terphenyl-d14	1.624	1.582	1.660	1.423	1.492	1.337	1.126	1.464	12.80
80)		Butylbenzylpht...	0.462	0.453	0.525	0.526	0.575	0.550	0.517	0.516	8.54
81)		Benzo(a)anthra...	1.424	1.287	1.403	1.278	1.391	1.327	1.238	1.336	5.36
82)		3,3'-Dichlorob...	0.360	0.364	0.402	0.407	0.444	0.442	0.417	0.405	8.30
83)		Chrysene	1.222	1.204	1.193	1.145	1.255	1.223	1.158	1.200	3.20
84)		Bis(2-ethylhex...	0.510	0.548	0.618	0.673	0.765	0.778	0.727	0.660	15.91
85)	c	Di-n-octyl pht...		0.958	1.108	1.266	1.432	1.542	1.437	1.290	17.30

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF052025.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.421	1.495	1.583	1.448	1.583	1.546	1.434	1.501	4.64
88)		Benzo(b)fluora...	1.317	1.105	1.293	1.126	1.209	1.122	1.114	1.184	7.62
89)		Benzo(k)fluora...	1.191	1.166	1.032	1.042	1.178	1.128	1.023	1.109	6.68
90)	C	Benzo(a)pyrene	1.154	1.081	1.114	1.081	1.185	1.133	1.062	1.116	4.00
91)		Dibenzo(a,h)an...	1.152	1.228	1.275	1.184	1.290	1.245	1.149	1.218	4.67
92)		Benzo(g,h,i)pe...	1.154	1.220	1.270	1.180	1.299	1.245	1.158	1.218	4.64

(#) = Out of Range

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142467.D
Acq On : 20 May 2025 12:10
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: May 20 16:54:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

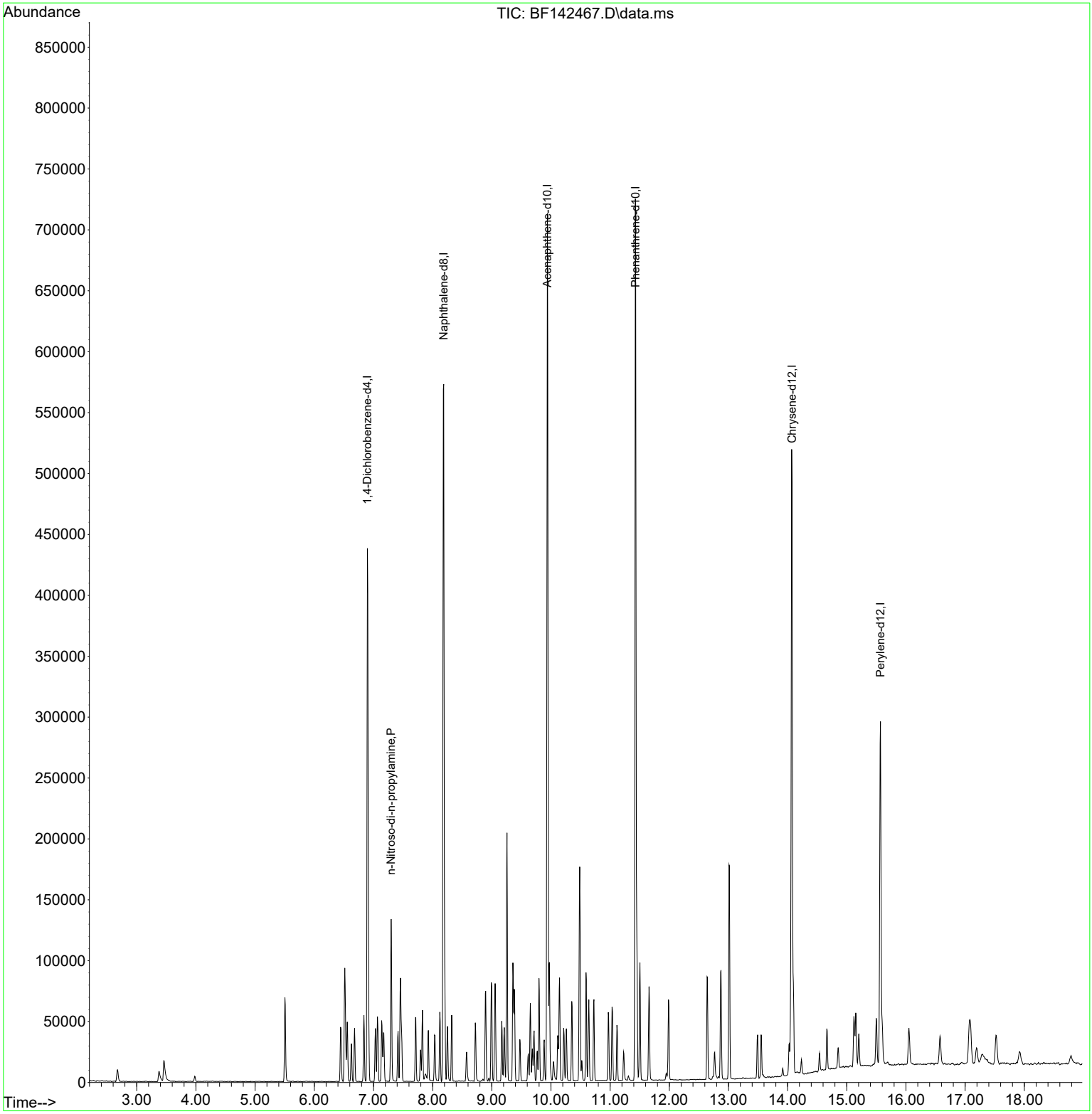
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	93808	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	371457	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	211662	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	381744	20.000	ng	0.00
76) Chrysene-d12	14.074	240	236443	20.000	ng	0.00
86) Perylene-d12	15.568	264	169046	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...	7.298	70	10828	2.607	ng	97

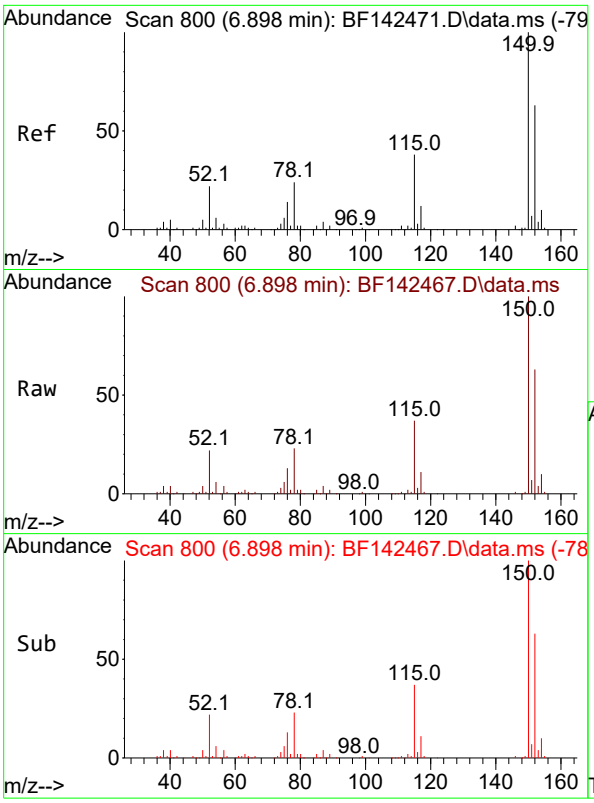
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142467.D
Acq On : 20 May 2025 12:10
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: May 20 16:54:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



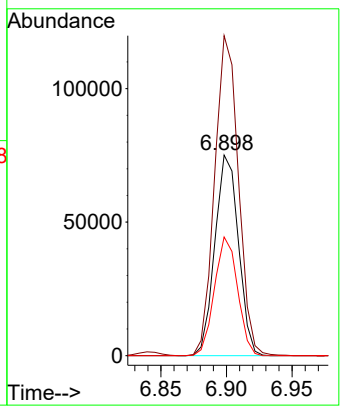


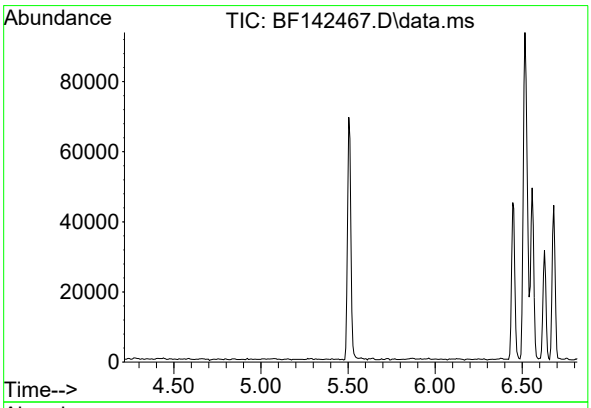
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142467.D
Acq: 20 May 2025 12:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 93808

Ion	Ratio	Lower	Upper
152	100		
150	159.5	128.2	192.4
115	59.2	48.3	72.5



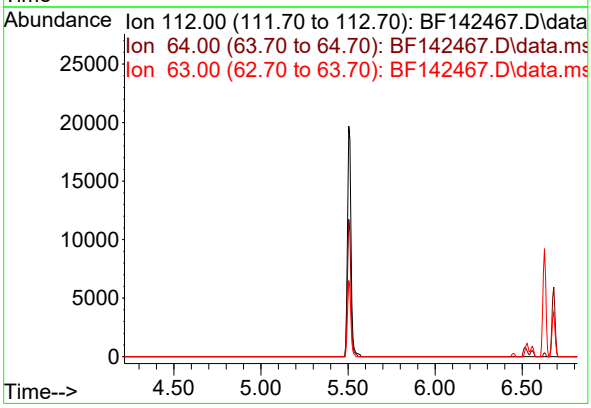


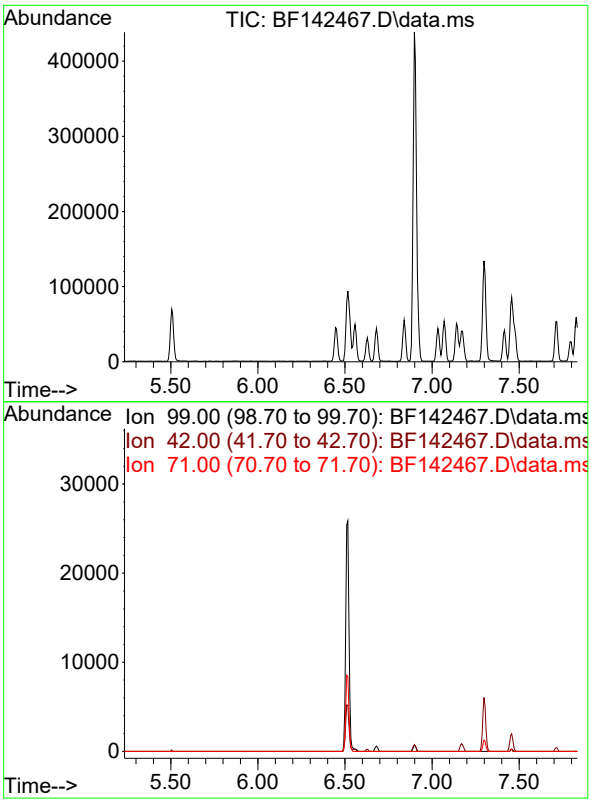
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.52 min

Lab File: BF142467.D
Acq: 20 May 2025 12:10

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	59.4
63	31.1





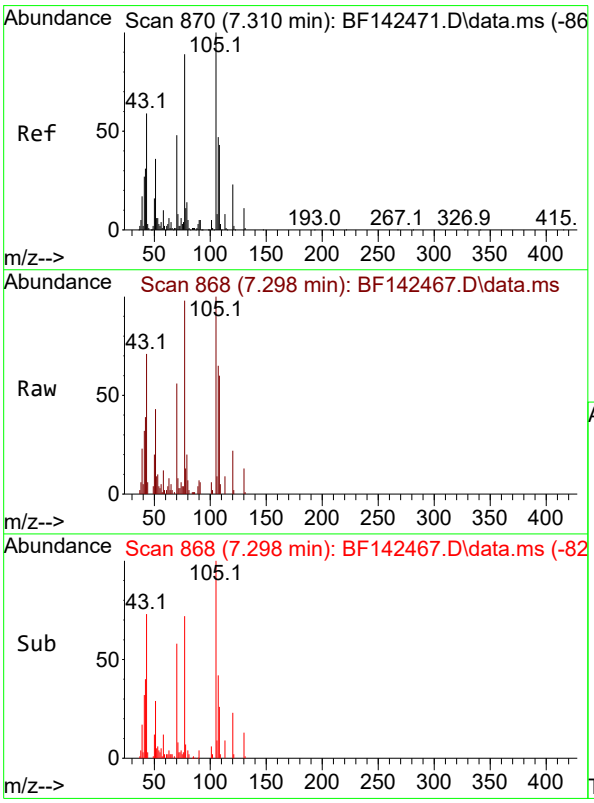
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.53 min

Lab File: BF142467.D
Acq: 20 May 2025 12:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

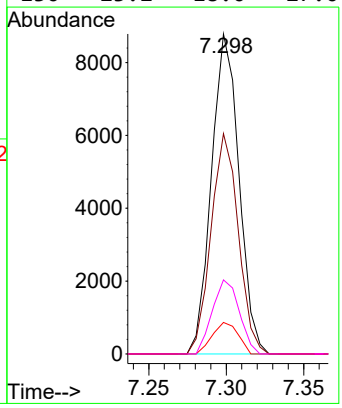
Sig	Exp Ratio
99	100
42	20.2
71	34.1

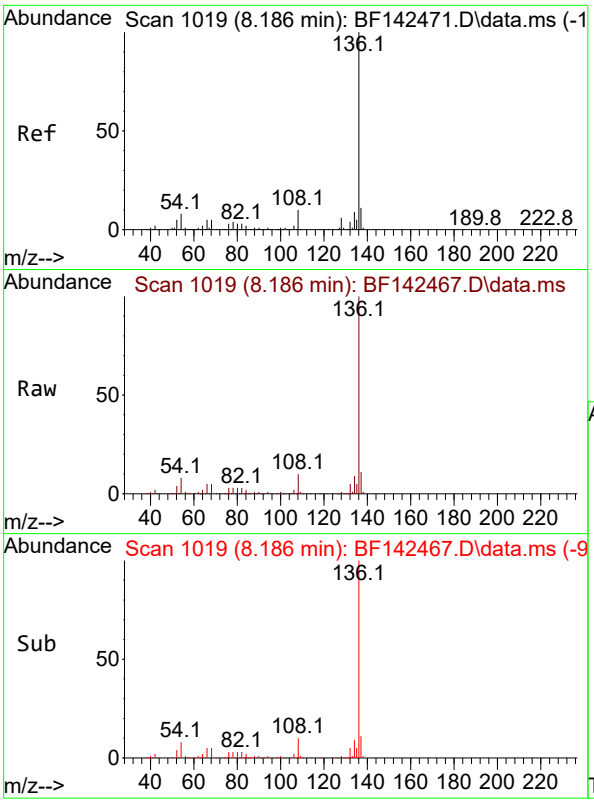


#19
n-Nitroso-di-n-propylamine
Concen: 2.607 ng
RT: 7.298 min Scan# 868
Delta R.T. -0.029 min
Lab File: BF142467.D
Acq: 20 May 2025 12:10

Tgt Ion: 70 Resp: 10828

Ion	Ratio	Lower	Upper
70	100		
42	68.8	52.4	78.6
101	9.9	7.8	11.8
130	23.2	18.0	27.0



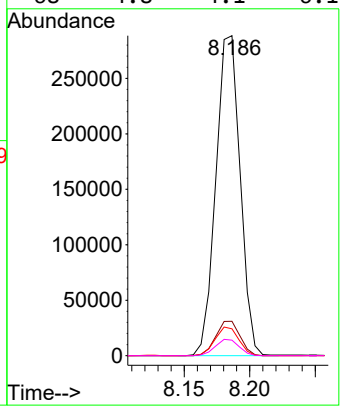


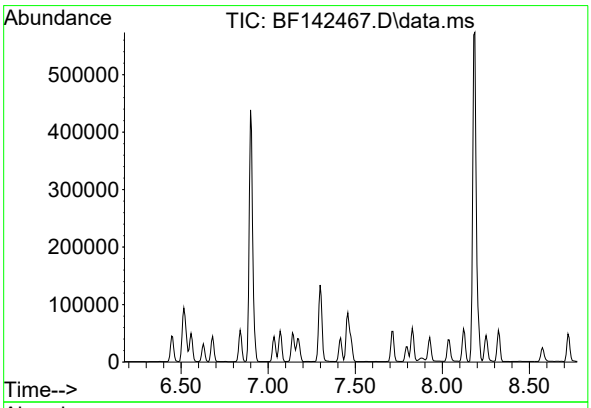
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142467.D
Acq: 20 May 2025 12:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 371457

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	8.4	6.6	10.0
68	4.8	4.1	6.1



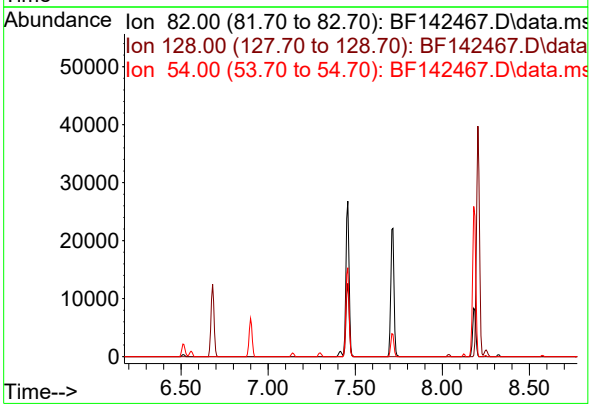


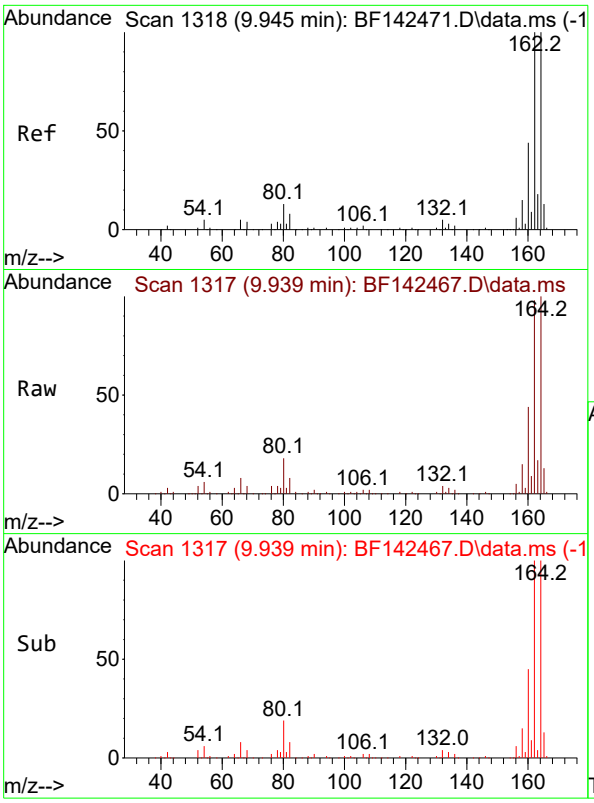
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 7.47 min

Lab File: BF142467.D
Acq: 20 May 2025 12:10

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	46.8
54	58.3



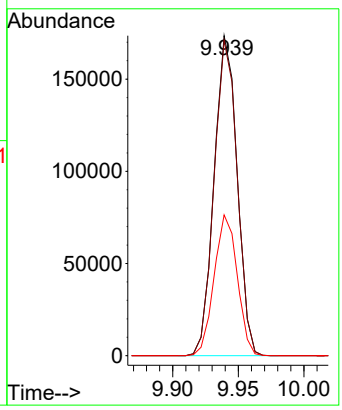


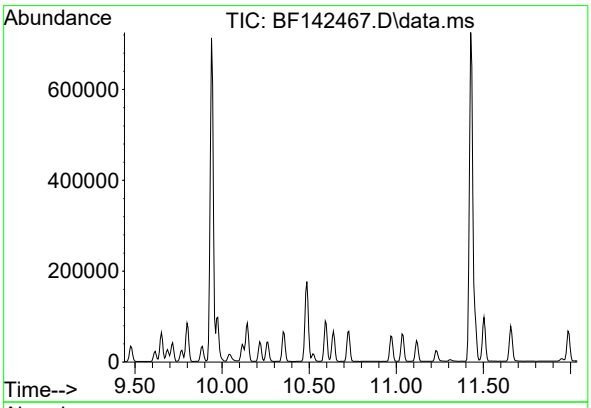
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142467.D
Acq: 20 May 2025 12:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 211662

Ion	Ratio	Lower	Upper
164	100		
162	98.5	80.2	120.4
160	44.0	35.6	53.4



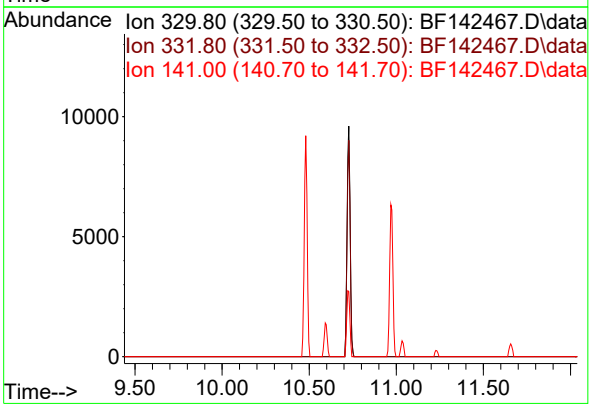


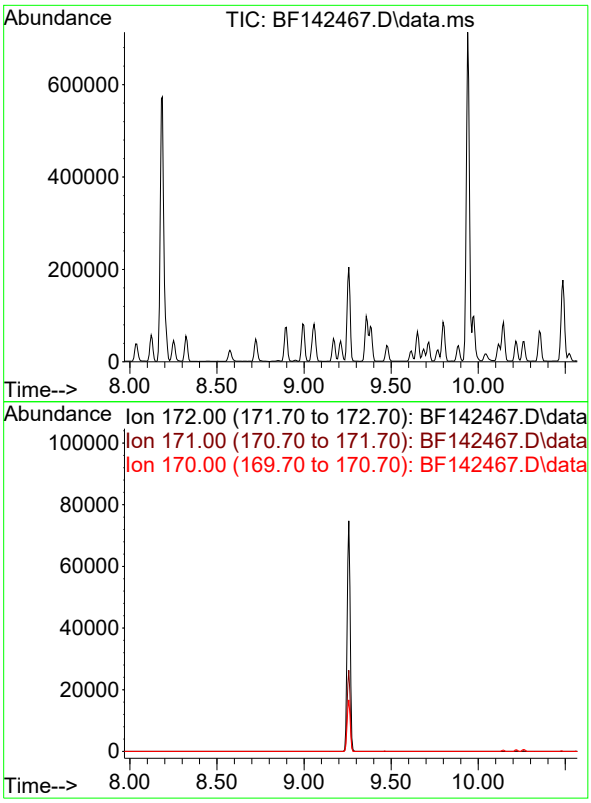
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.74 min

Lab File: BF142467.D
Acq: 20 May 2025 12:10

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	97.0
141	30.7





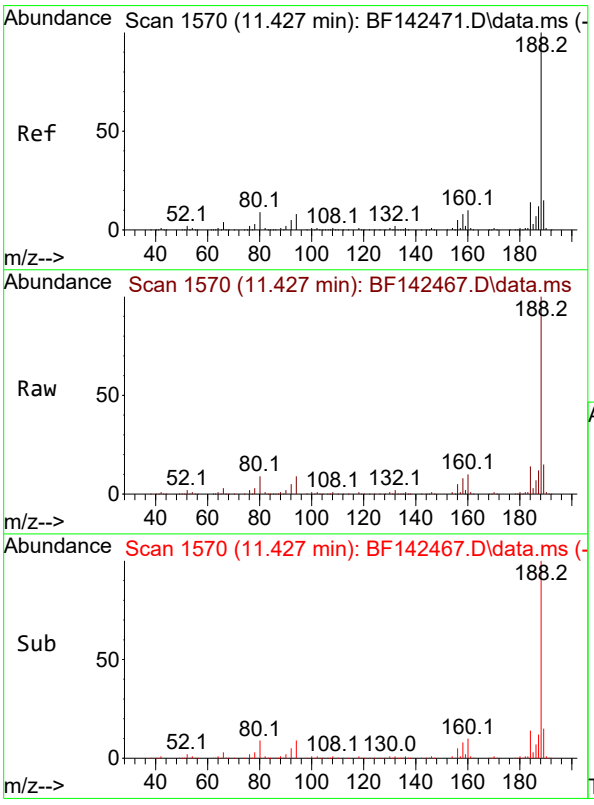
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.27 min

Lab File: BF142467.D
Acq: 20 May 2025 12:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

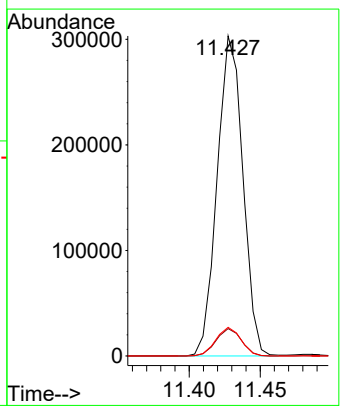
Sig	Exp Ratio
172	100
171	35.7
170	23.6

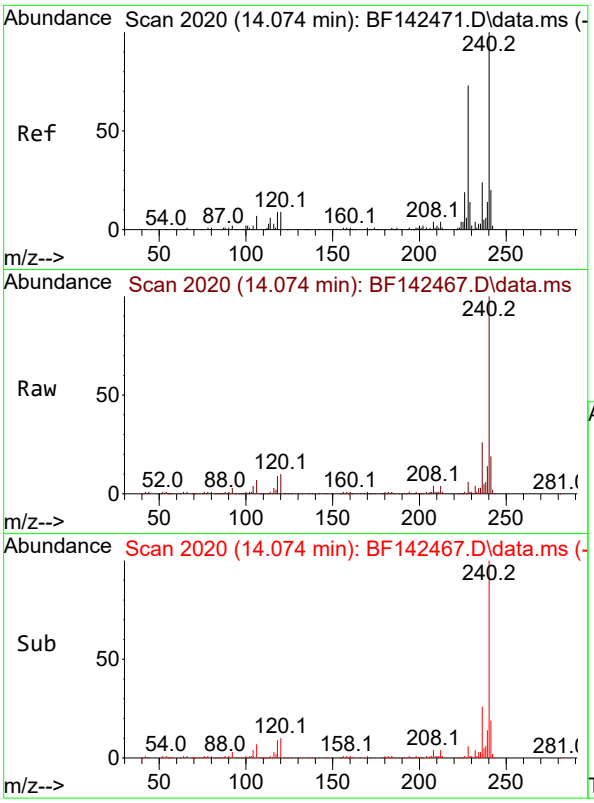


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF142467.D
Acq: 20 May 2025 12:10

Tgt Ion:188 Resp: 381744

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.6	10.0
80	9.0	7.4	11.0



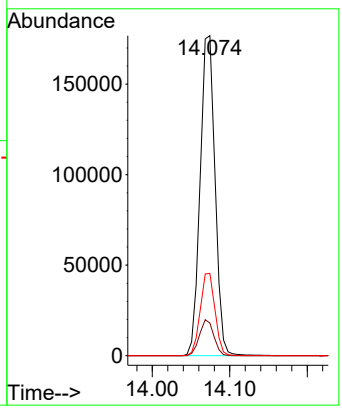


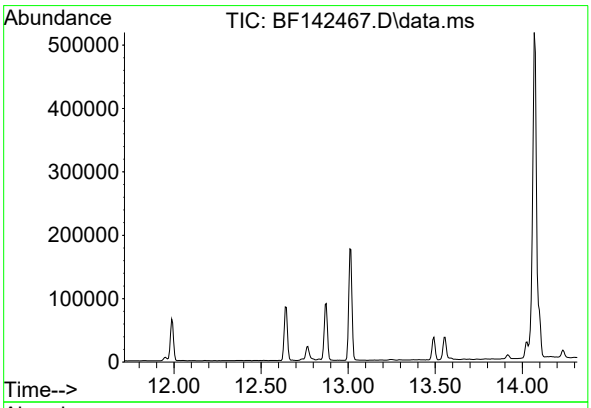
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.074 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF142467.D
Acq: 20 May 2025 12:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 236443

Ion	Ratio	Lower	Upper
240	100		
120	10.2	7.5	11.3
236	25.7	19.6	29.4



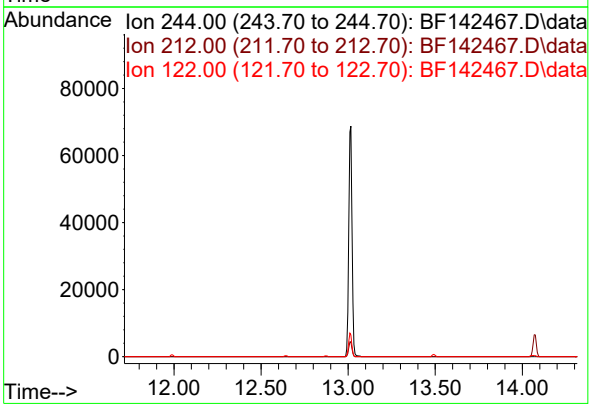


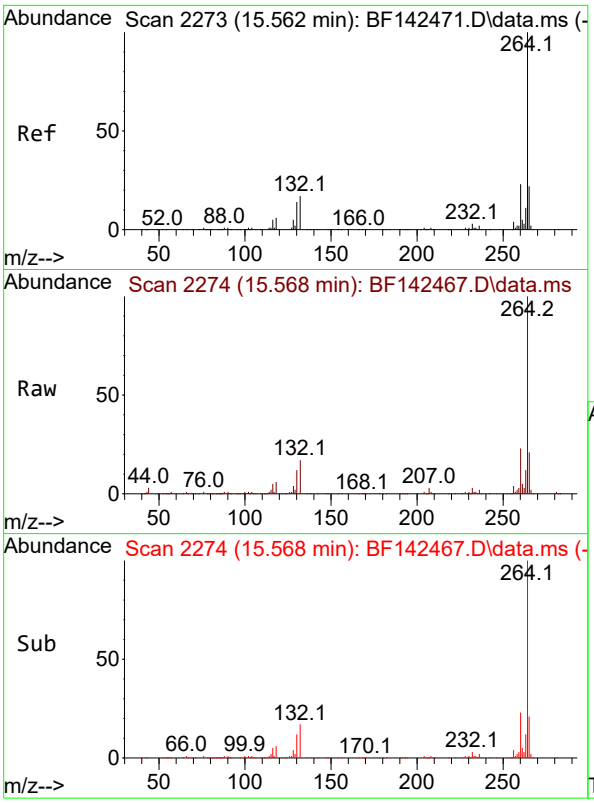
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 13.02 min

Lab File: BF142467.D
Acq: 20 May 2025 12:10

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	6.6
122	10.2



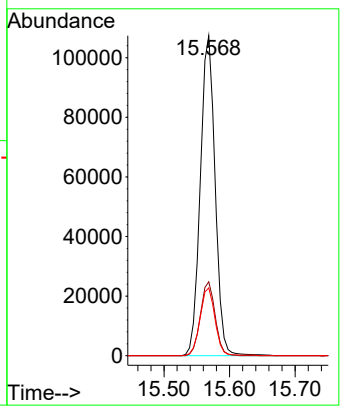


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.568 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF142467.D
Acq: 20 May 2025 12:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 169046

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	28.0
265	21.2	17.7	26.5



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142468.D
Acq On : 20 May 2025 12:38
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: May 20 16:54:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.898	152	87254	20.000	ng		0.00
21) Naphthalene-d8	8.181	136	345154	20.000	ng		0.00
39) Acenaphthene-d10	9.939	164	197100	20.000	ng		0.00
64) Phenanthrene-d10	11.427	188	349474	20.000	ng		0.00
76) Chrysene-d12	14.074	240	218524	20.000	ng		0.00
86) Perylene-d12	15.568	264	154887	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	55140	10.647	ng		-0.01
7) Phenol-d6	6.516	99	66768	10.710	ng		-0.02
23) Nitrobenzene-d5	7.457	82	64876	10.249	ng		-0.02
42) 2,4,6-Tribromophenol	10.727	330	22702	10.378	ng		-0.01
45) 2-Fluorobiphenyl	9.257	172	170142	11.583	ng		-0.01
79) Terphenyl-d14	13.016	244	177430	11.096	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.669	88	10748	5.186	ng		97
3) Pyridine	3.451	79	26993	5.115	ng		98
4) n-Nitrosodimethylamine	3.369	42	13346	4.870	ng	#	97
6) Aniline	6.557	93	44576	5.318	ng		98
8) 2-Chlorophenol	6.681	128	29341	5.201	ng		98
9) Benzaldehyde	6.445	77	22572	6.020	ng		98
10) Phenol	6.528	94	37431	5.336	ng		97
11) bis(2-Chloroethyl)ether	6.628	93	26215	5.192	ng		98
12) 1,3-Dichlorobenzene	6.839	146	34073	5.413	ng		97
13) 1,4-Dichlorobenzene	6.916	146	33593	5.298	ng		99
14) 1,2-Dichlorobenzene	7.069	146	32604	5.374	ng		99
15) Benzyl Alcohol	7.034	79	23103	5.015	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.169	45	45414	5.355	ng		99
17) 2-Methylphenol	7.139	107	22693	5.153	ng		98
18) Hexachloroethane	7.416	117	11635	5.255	ng		99
19) n-Nitroso-di-n-propyla...	7.298	70	20527	5.313	ng		96
20) 3+4-Methylphenols	7.292	107	30797	5.460	ng	#	88
22) Acetophenone	7.304	105	41438	5.423	ng		99
24) Nitrobenzene	7.475	77	29193	5.114	ng		96
25) Isophorone	7.716	82	54838	5.182	ng		98
26) 2-Nitrophenol	7.798	139	14387	4.716	ng		99
27) 2,4-Dimethylphenol	7.828	122	27170	5.051	ng		99
28) bis(2-Chloroethoxy)met...	7.928	93	35010	5.296	ng		97
29) 2,4-Dichlorophenol	8.034	162	24812	5.072	ng		98
30) 1,2,4-Trichlorobenzene	8.122	180	28037	5.281	ng		97
31) Naphthalene	8.204	128	91563	5.388	ng		100
33) 4-Chloroaniline	8.251	127	36597	5.314	ng		98
34) Hexachlorobutadiene	8.322	225	17505	5.280	ng		99
35) Caprolactam	8.581	113	7020	5.109	ng		97
36) 4-Chloro-3-methylphenol	8.722	107	26197	5.225	ng		97
37) 2-Methylnaphthalene	8.898	142	58574	5.478	ng		99
38) 1-Methylnaphthalene	8.992	142	60674	5.486	ng		100
40) 1,2,4,5-Tetrachloroben...	9.063	216	29150	5.152	ng		99
41) Hexachlorocyclopentadiene	9.051	237	15667	4.105	ng		99
43) 2,4,6-Trichlorophenol	9.169	196	19079	5.001	ng		99
44) 2,4,5-Trichlorophenol	9.210	196	20200	5.020	ng		98

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142468.D
Acq On : 20 May 2025 12:38
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: May 20 16:54:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

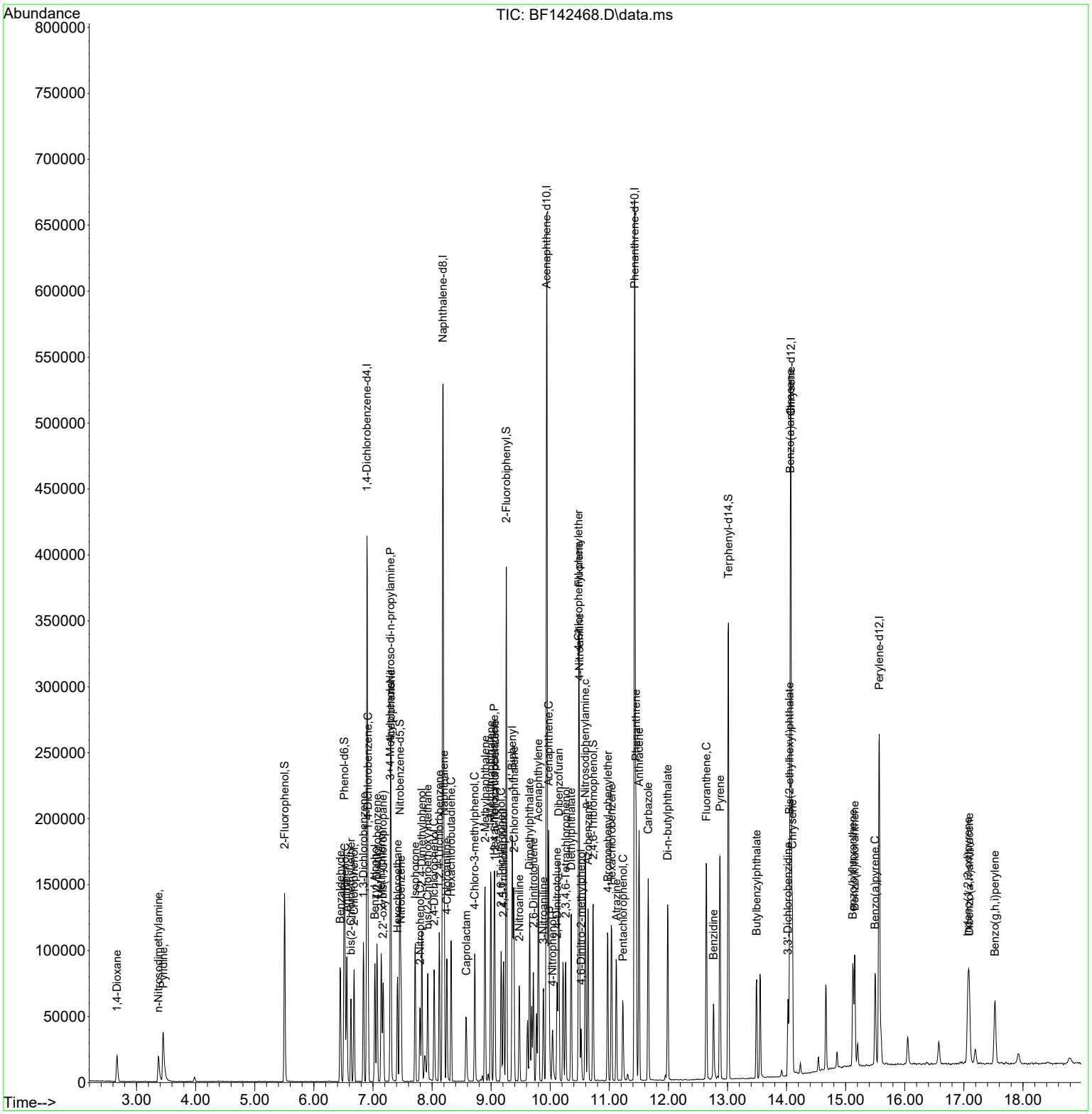
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	9.357	154	82376	5.387	ng	99
47) 2-Chloronaphthalene	9.386	162	60002	5.311	ng	97
48) 2-Nitroaniline	9.475	65	16399	5.022	ng	95
49) Acenaphthylene	9.798	152	101686	5.330	ng	99
50) Dimethylphthalate	9.651	163	71020	5.461	ng	99
51) 2,6-Dinitrotoluene	9.716	165	14295	5.093	ng	97
52) Acenaphthene	9.975	154	62026	5.325	ng	99
53) 3-Nitroaniline	9.886	138	15749	5.137	ng	99
55) Dibenzofuran	10.145	168	92955	5.545	ng	98
56) 4-Nitrophenol	10.039	139	10876	4.808	ng	93
57) 2,4-Dinitrotoluene	10.116	165	18322	4.998	ng	91
58) Fluorene	10.486	166	72775	5.620	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.263	232	17096	5.090	ng	98
60) Diethylphthalate	10.357	149	70046	5.515	ng	99
61) 4-Chlorophenyl-phenyle...	10.480	204	35694	5.611	ng	97
62) 4-Nitroaniline	10.492	138	14920	5.366	ng	95
63) Azobenzene	10.639	77	61041	5.351	ng	99
65) 4,6-Dinitro-2-methylph...	10.522	198	7475	3.833	ng	90
66) n-Nitrosodiphenylamine	10.592	169	62215	5.204	ng	98
67) 4-Bromophenyl-phenylether	10.975	248	20974	5.076	ng	98
68) Hexachlorobenzene	11.039	284	23159	5.067	ng	100
69) Atrazine	11.122	200	16045	5.053	ng	98
70) Pentachlorophenol	11.233	266	11357	4.401	ng	96
71) Phenanthrene	11.451	178	104484	5.594	ng	100
72) Anthracene	11.504	178	104017	5.457	ng	100
73) Carbazole	11.657	167	89967	5.521	ng	99
74) Di-n-butylphthalate	11.986	149	96777	5.426	ng	99
75) Fluoranthene	12.645	202	102797	5.890	ng	99
77) Benzidine	12.763	184	36585	4.499	ng	98
78) Pyrene	12.874	202	105394	5.170	ng	99
80) Butylbenzylphthalate	13.492	149	25251	4.483	ng	96
81) Benzo(a)anthracene	14.063	228	77800	5.332	ng	100
82) 3,3'-Dichlorobenzidine	14.021	252	19673	4.445	ng	98
83) Chrysene	14.098	228	66761	5.092	ng	99
84) Bis(2-ethylhexyl)phtha...	14.051	149	27864	3.864	ng	98
87) Indeno(1,2,3-cd)pyrene	17.068	276	55034	4.733	ng	99
88) Benzo(b)fluoranthene	15.121	252	51014	5.565	ng	98
89) Benzo(k)fluoranthene	15.151	252	46114	5.371	ng	98
90) Benzo(a)pyrene	15.498	252	44694	5.172	ng	99
91) Dibenzo(a,h)anthracene	17.092	278	44618	4.731	ng	98
92) Benzo(g,h,i)perylene	17.527	276	44684	4.737	ng	97

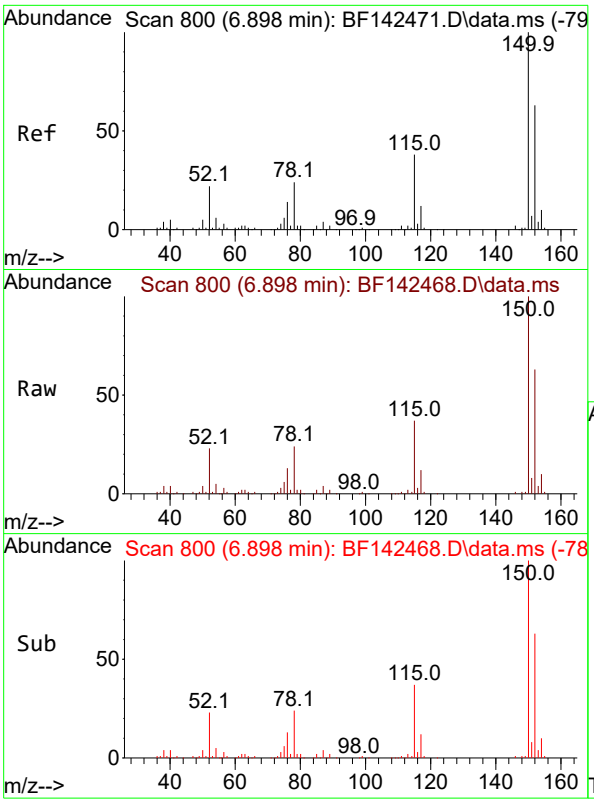
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142468.D
Acq On : 20 May 2025 12:38
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: May 20 16:54:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



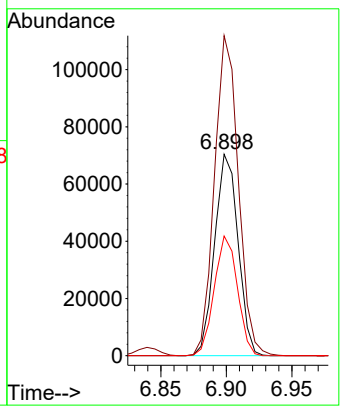


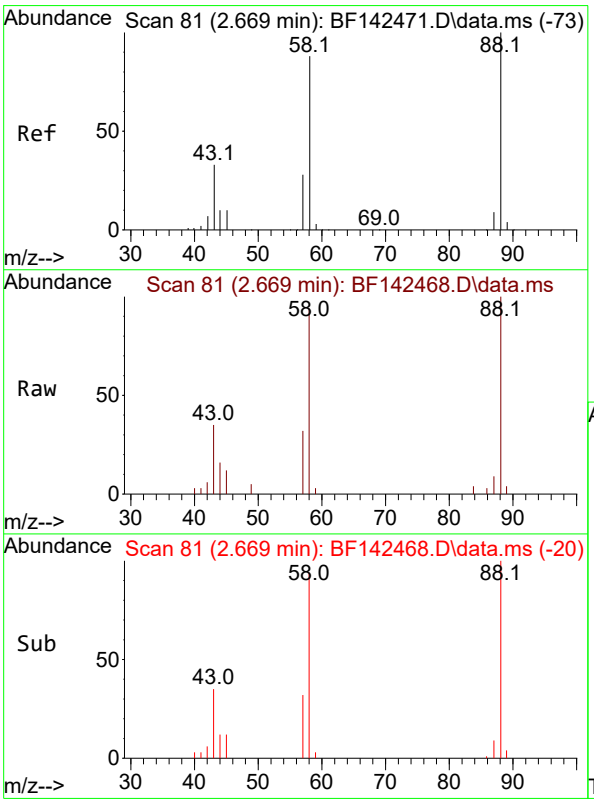
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 87254

Ion	Ratio	Lower	Upper
152	100		
150	158.8	128.2	192.4
115	59.4	48.3	72.5

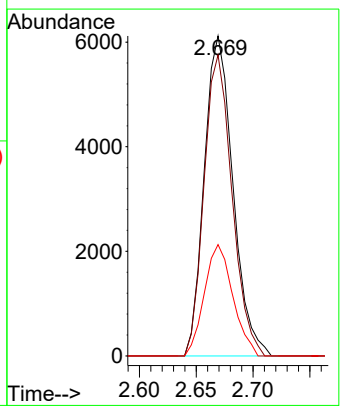


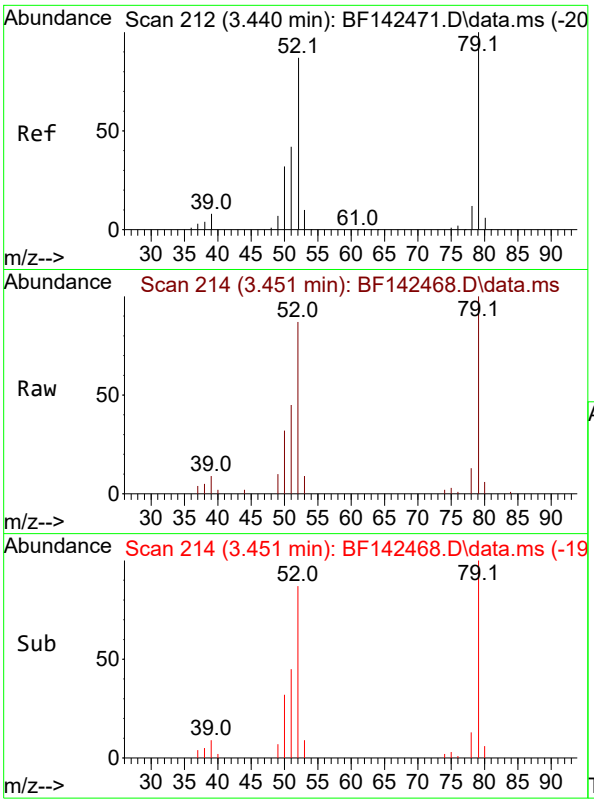


#2
1,4-Dioxane
Concen: 5.186 ng
RT: 2.669 min Scan# 81
Delta R.T. 0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion: 88 Resp: 10748

Ion	Ratio	Lower	Upper
88	100		
58	91.6	70.8	106.2
43	34.5	26.6	40.0



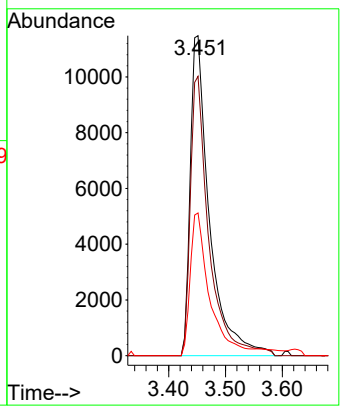


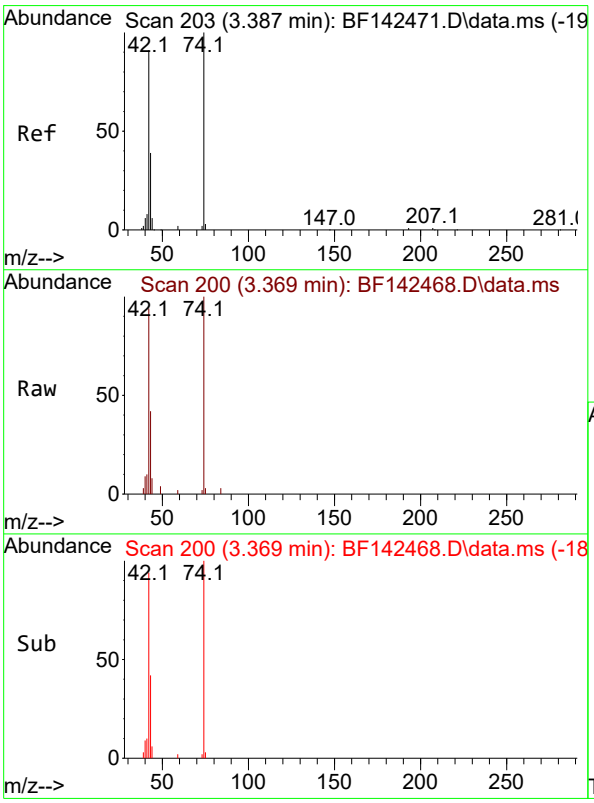
#3
Pyridine
Concen: 5.115 ng
RT: 3.451 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 26993

Ion	Ratio	Lower	Upper
79	100		
52	87.3	69.2	103.8
51	44.6	33.3	49.9

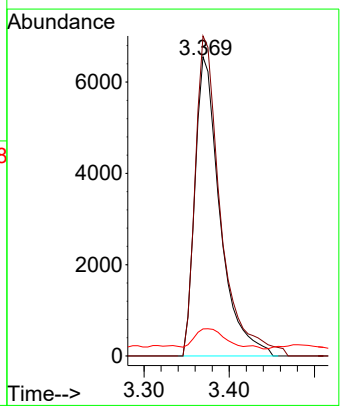


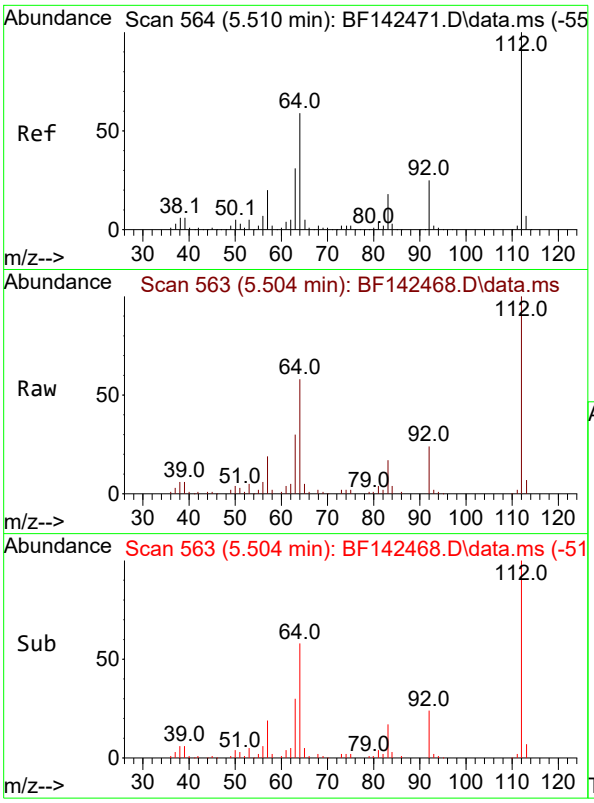


#4
n-Nitrosodimethylamine
Concen: 4.870 ng
RT: 3.369 min Scan# 200
Delta R.T. -0.035 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion: 42 Resp: 13346

Ion	Ratio	Lower	Upper
42	100		
74	106.9	88.2	132.4
44	9.1	5.4	8.2#



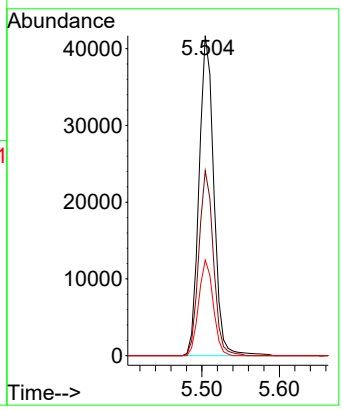


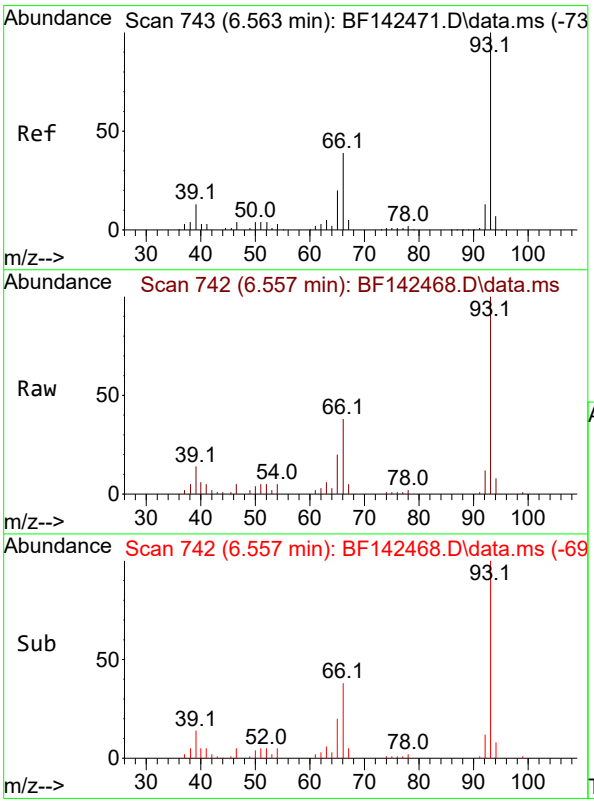
#5
2-Fluorophenol
Concen: 10.647 ng
RT: 5.504 min Scan# 5
Delta R.T. -0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:112 Resp: 55140

Ion	Ratio	Lower	Upper
112	100		
64	57.8	47.5	71.3
63	29.9	24.9	37.3

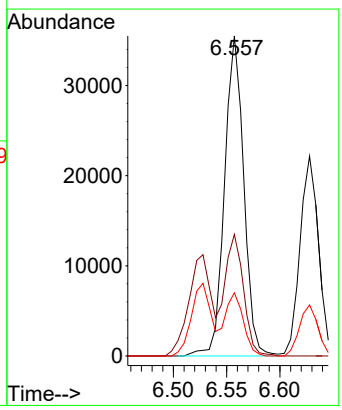


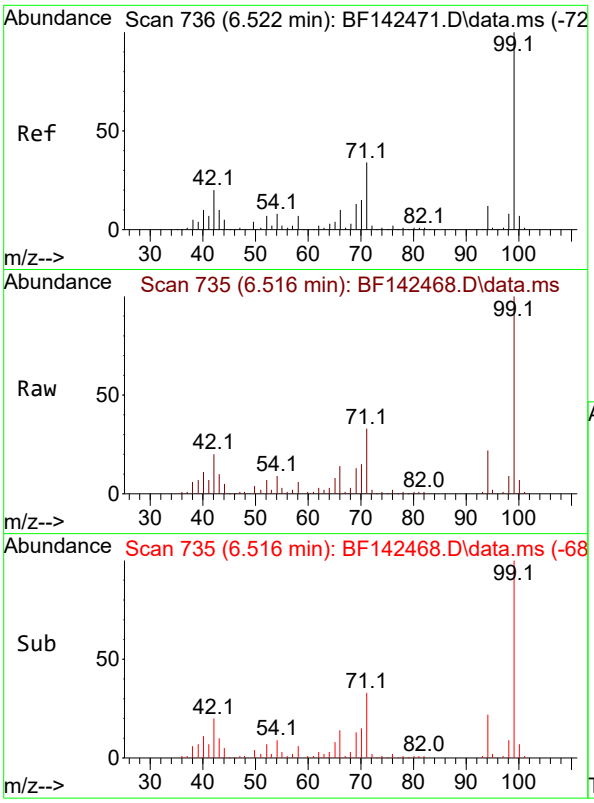


#6
Aniline
Concen: 5.318 ng
RT: 6.557 min Scan# 742
Delta R.T. -0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion: 93 Resp: 44576

Ion	Ratio	Lower	Upper
93	100		
66	38.0	32.0	48.0
65	19.7	16.1	24.1



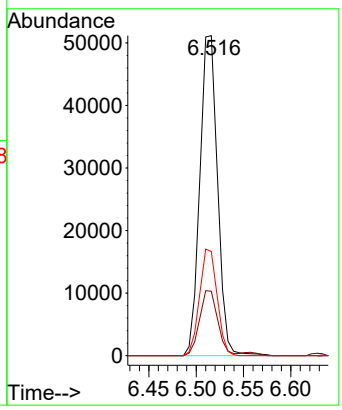


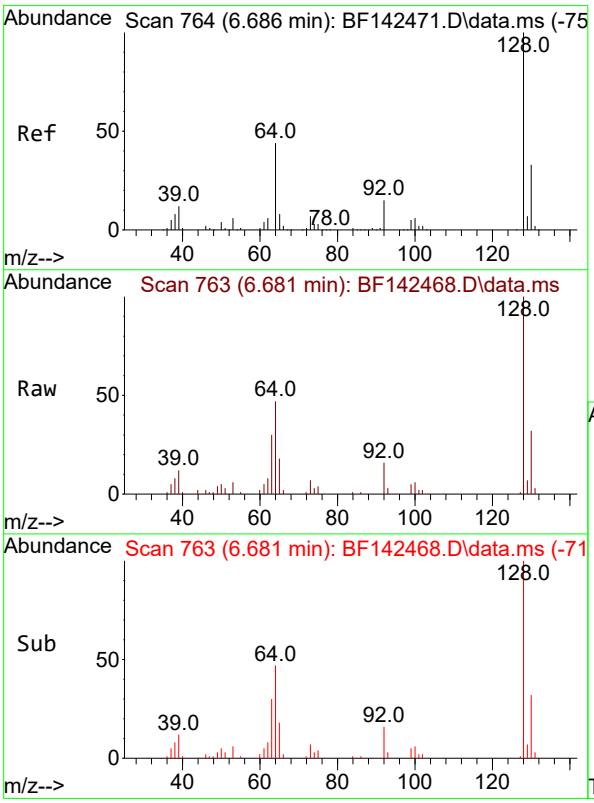
#7
Phenol-d6
Concen: 10.710 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 99 Resp: 66768

Ion	Ratio	Lower	Upper
99	100		
42	20.2	16.2	24.2
71	32.6	27.3	40.9

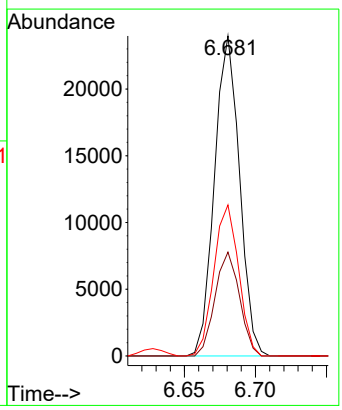


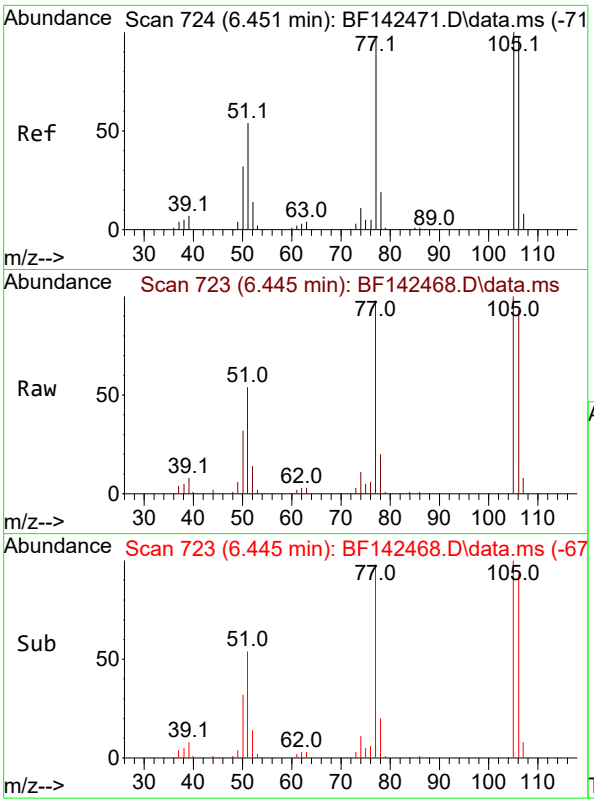


#8
2-Chlorophenol
Concen: 5.201 ng
RT: 6.681 min Scan# 763
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:128 Resp: 29341

Ion	Ratio	Lower	Upper
128	100		
130	32.4	12.6	52.6
64	47.2	25.1	65.1



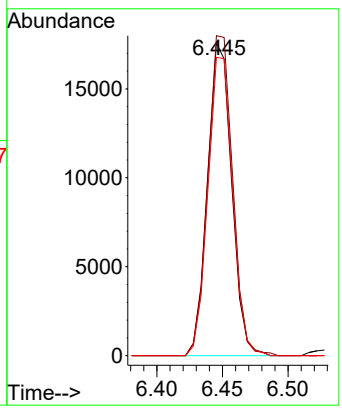


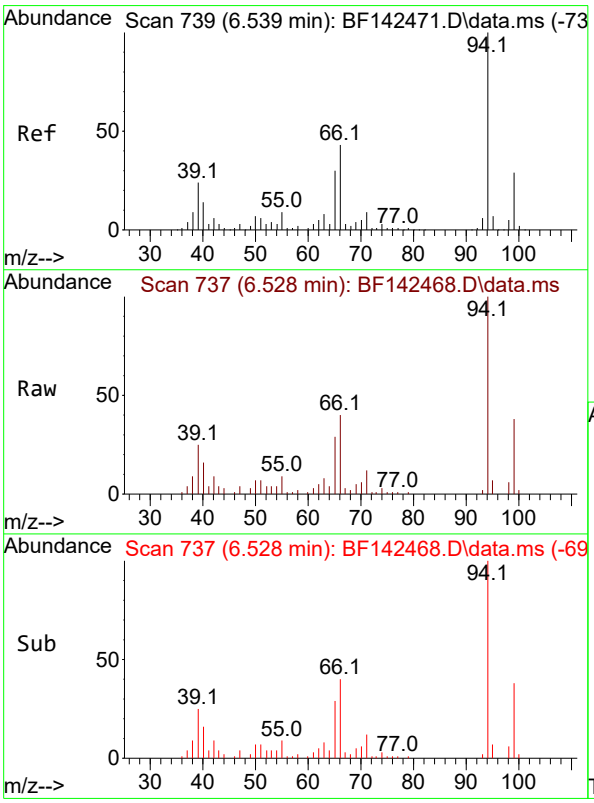
#9
Benzaldehyde
Concen: 6.020 ng
RT: 6.445 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 77 Resp: 22572

Ion	Ratio	Lower	Upper
77	100		
105	102.2	82.5	122.5
106	95.3	80.0	120.0

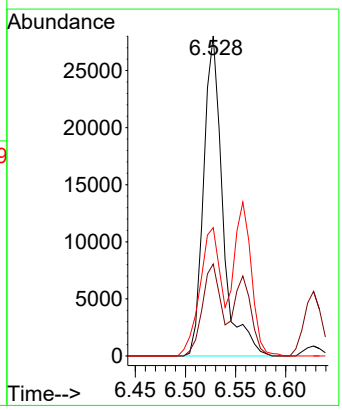


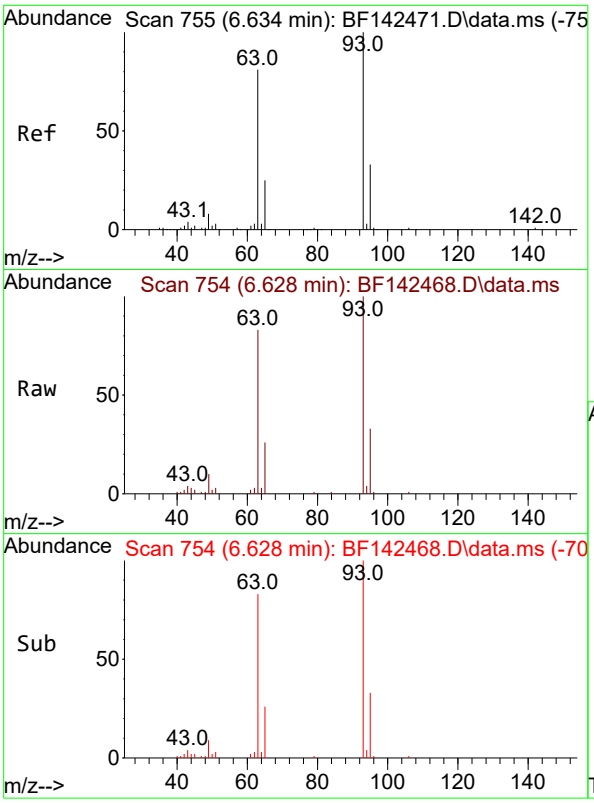


#10
Phenol
Concen: 5.336 ng
RT: 6.528 min Scan# 737
Delta R.T. -0.023 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion: 94 Resp: 37431

Ion	Ratio	Lower	Upper
94	100		
65	28.8	10.3	50.3
66	40.1	22.6	62.6



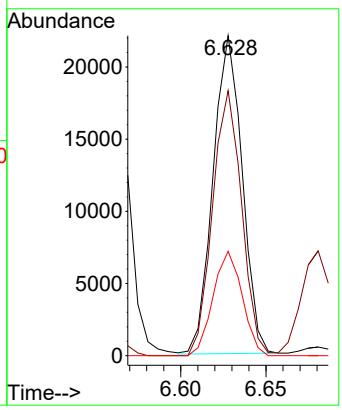


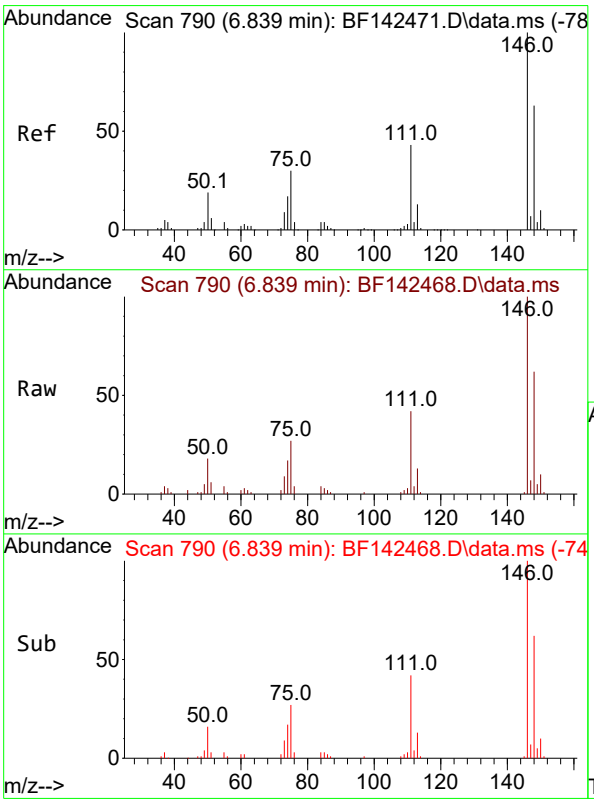
#11
bis(2-Chloroethyl)ether
Concen: 5.192 ng
RT: 6.628 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 93 Resp: 26215

Ion	Ratio	Lower	Upper
93	100		
63	82.8	60.2	100.2
95	32.6	12.3	52.3

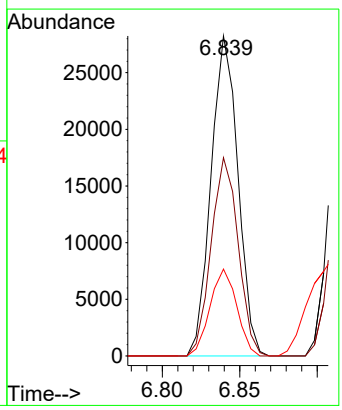


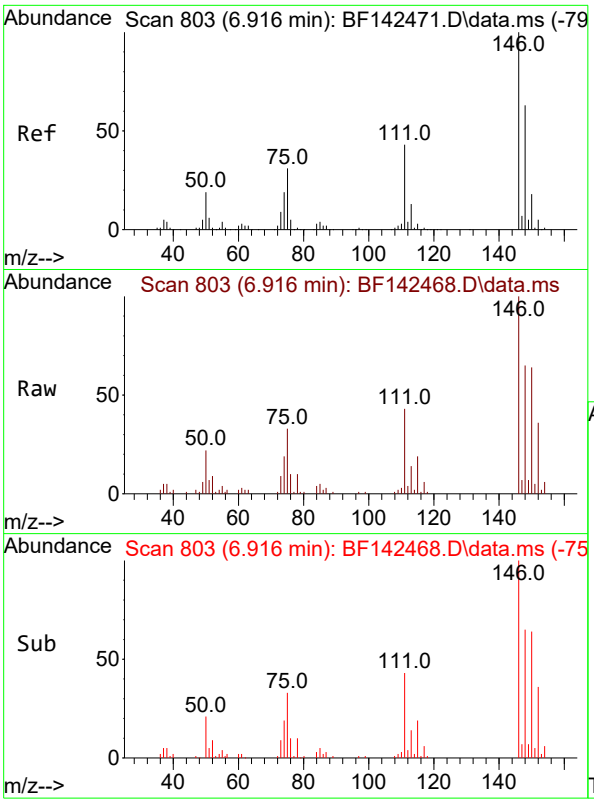


#12
1,3-Dichlorobenzene
Concen: 5.413 ng
RT: 6.839 min Scan# 790
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:146 Resp: 34073

Ion	Ratio	Lower	Upper
146	100		
148	62.0	50.6	75.8
75	27.1	23.8	35.6



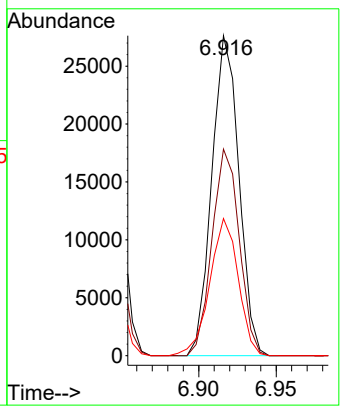


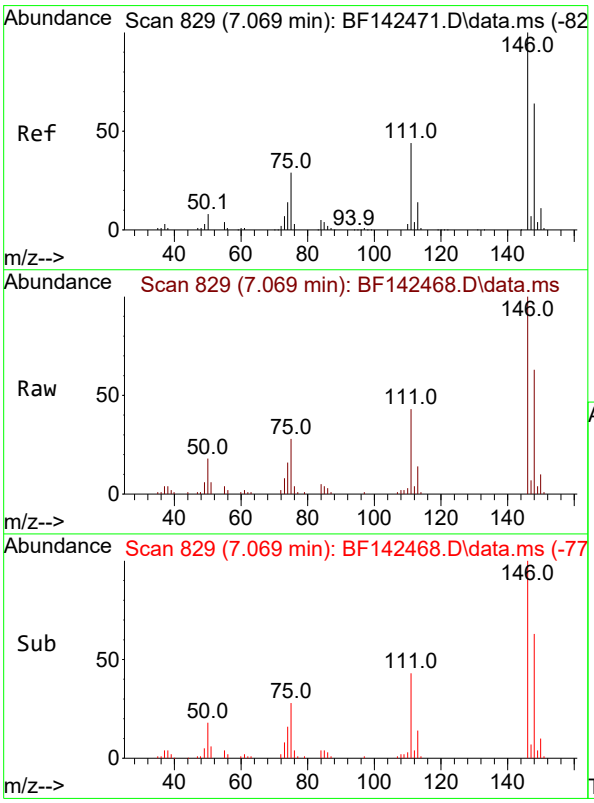
#13
1,4-Dichlorobenzene
Concen: 5.298 ng
RT: 6.916 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:146 Resp: 33593

Ion	Ratio	Lower	Upper
146	100		
148	64.6	50.4	75.6
111	42.9	34.1	51.1

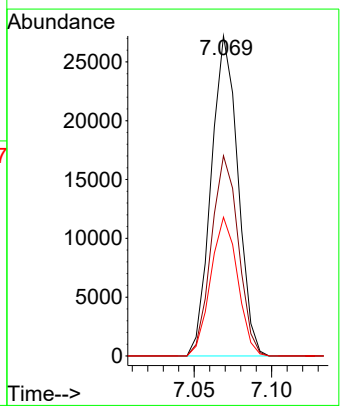


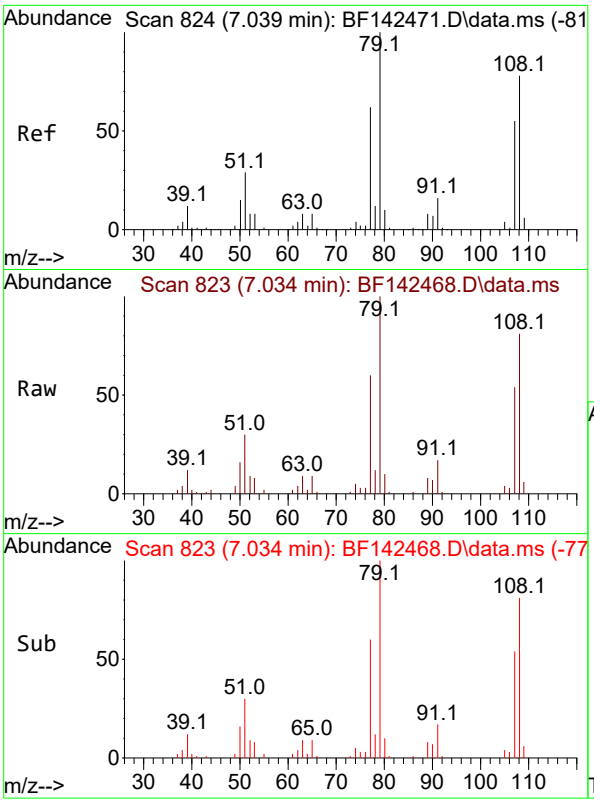


#14
1,2-Dichlorobenzene
Concen: 5.374 ng
RT: 7.069 min Scan# 829
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:146 Resp: 32604

Ion	Ratio	Lower	Upper
146	100		
148	62.6	51.0	76.4
111	43.4	35.0	52.6



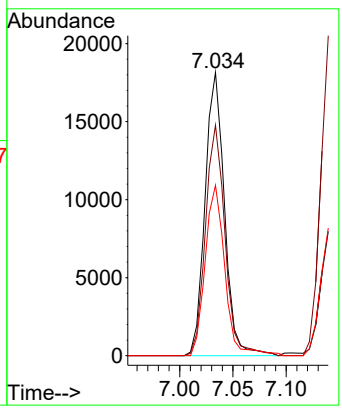


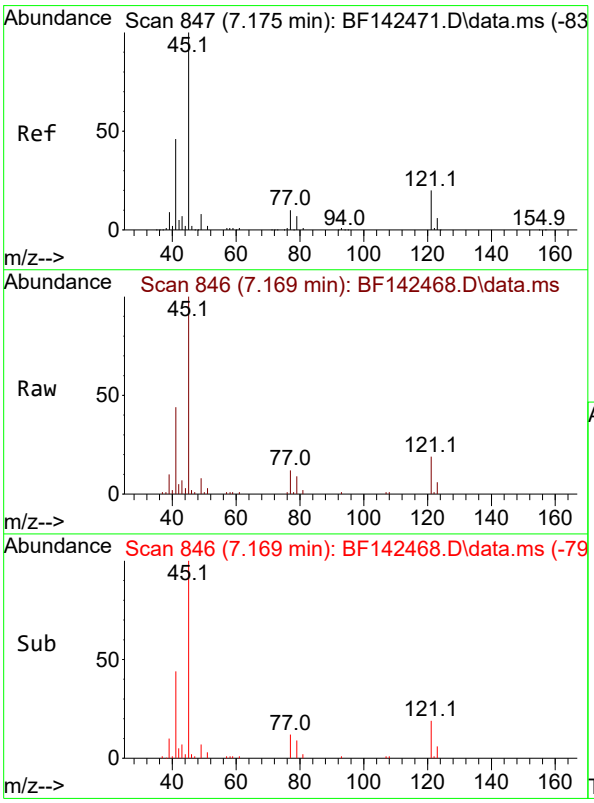
#15
Benzyl Alcohol
Concen: 5.015 ng
RT: 7.034 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 23103

Ion	Ratio	Lower	Upper
79	100		
108	81.4	62.1	93.1
77	60.2	49.5	74.3

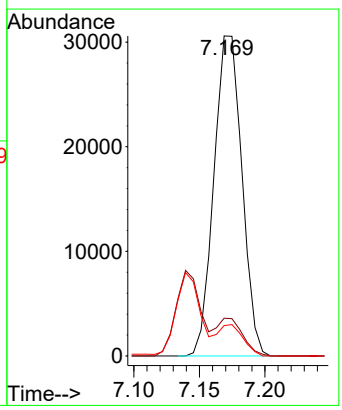


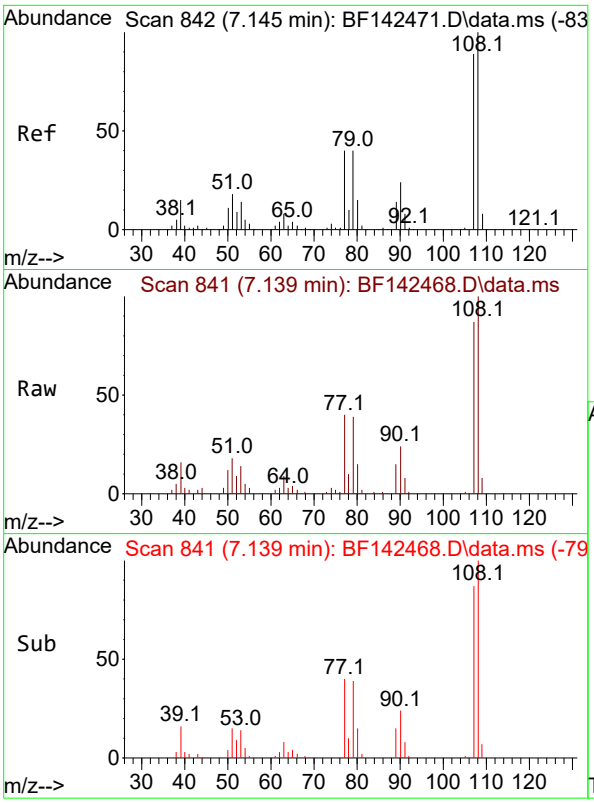


#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.355 ng
RT: 7.169 min Scan# 846
Delta R.T. -0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion: 45 Resp: 45414

Ion	Ratio	Lower	Upper
45	100		
77	11.8	0.0	32.0
79	9.5	0.0	29.2



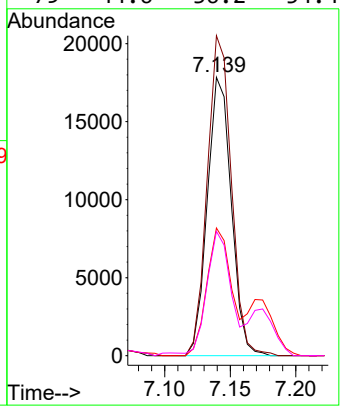


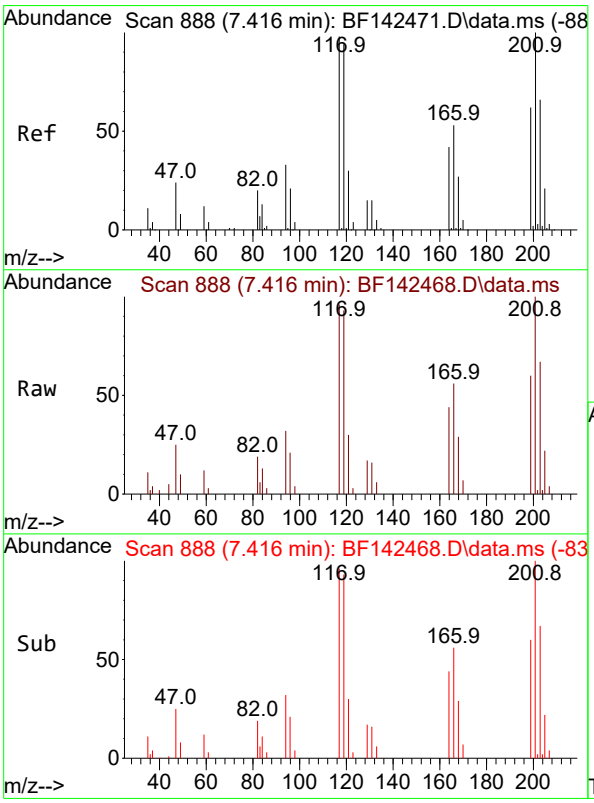
#17
2-Methylphenol
Concen: 5.153 ng
RT: 7.139 min Scan# 84
Delta R.T. -0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:107 Resp: 22693

Ion	Ratio	Lower	Upper
107	100		
108	114.9	90.2	135.2
77	45.9	36.1	54.1
79	44.6	36.2	54.4

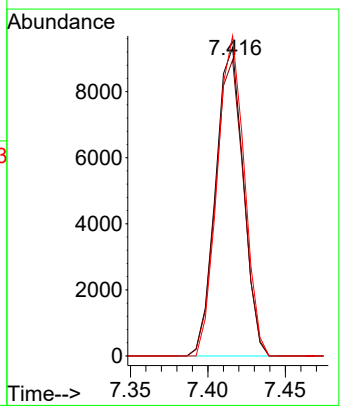


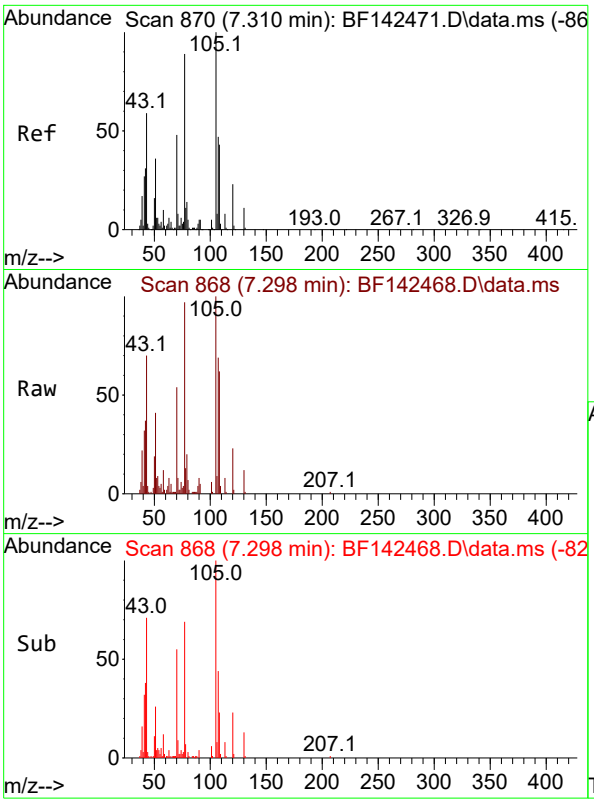


#18
Hexachloroethane
Concen: 5.255 ng
RT: 7.416 min Scan# 888
Delta R.T. 0.000 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:117 Resp: 11635

Ion	Ratio	Lower	Upper
117	100		
119	96.0	76.6	114.8
201	103.7	81.3	121.9



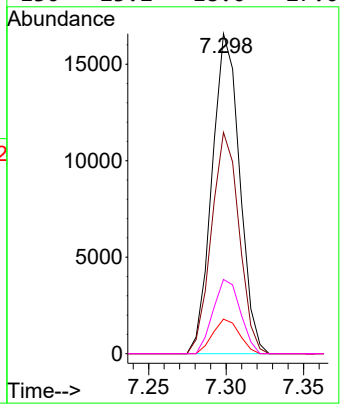


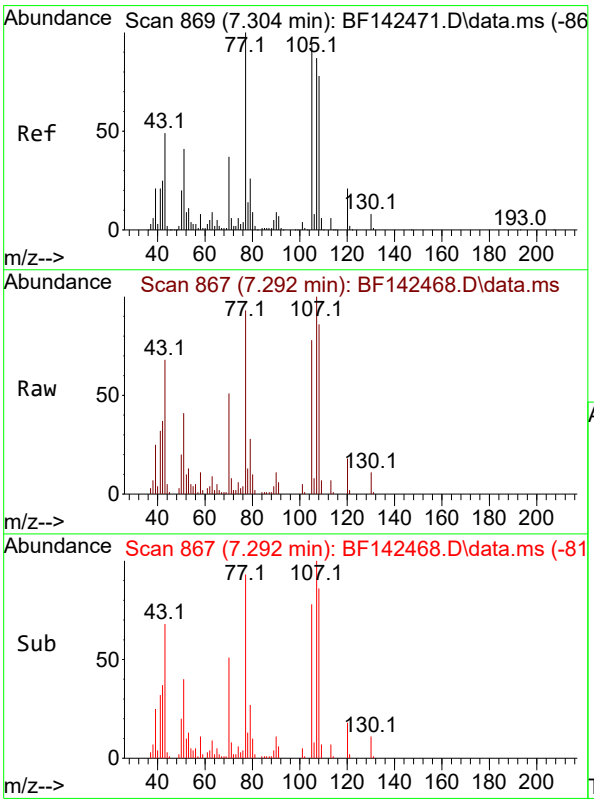
#19
n-Nitroso-di-n-propylamine
Concen: 5.313 ng
RT: 7.298 min Scan# 8
Delta R.T. -0.029 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 70 Resp: 20527

Ion	Ratio	Lower	Upper
70	100		
42	69.1	52.4	78.6
101	10.8	7.8	11.8
130	23.2	18.0	27.0

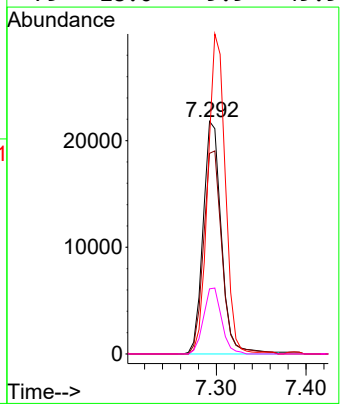


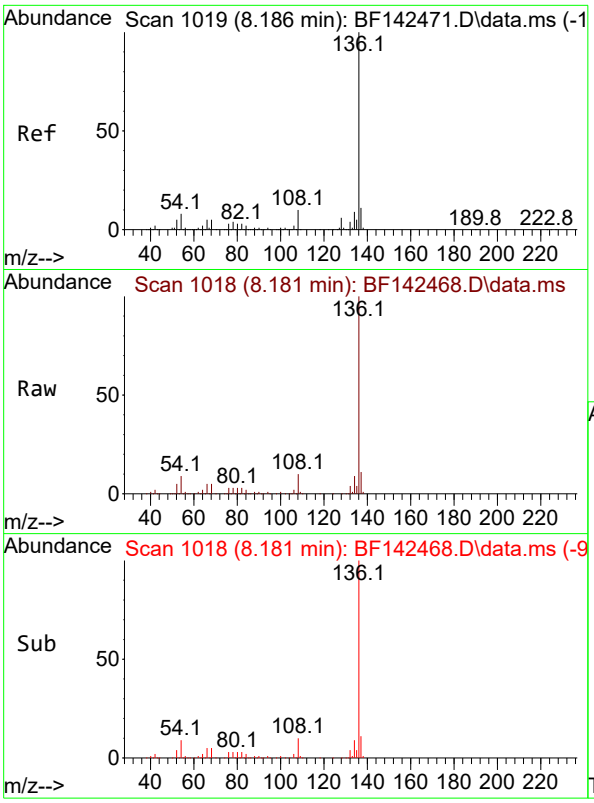


#20
3+4-Methylphenols
Concen: 5.460 ng
RT: 7.292 min Scan# 867
Delta R.T. -0.018 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:107 Resp: 30797

Ion	Ratio	Lower	Upper
107	100		
108	86.3	70.4	110.4
77	92.8	95.4	135.4#
79	28.0	9.9	49.9



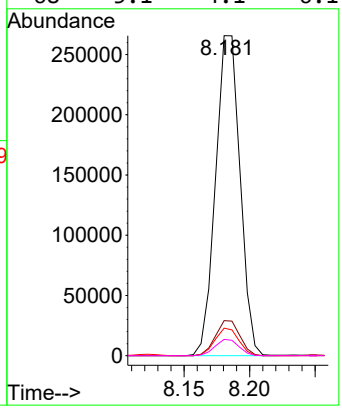


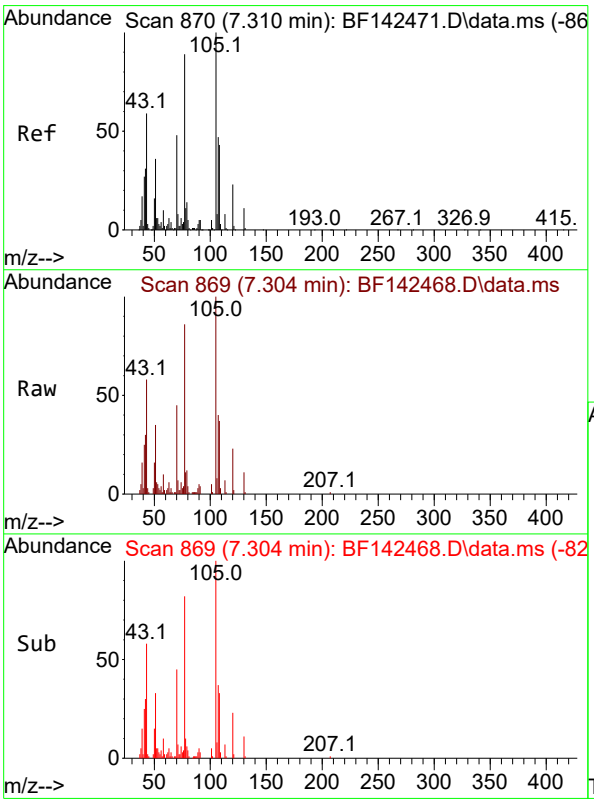
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:136 Resp: 345154

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	13.0
54	8.6	6.6	10.0
68	5.1	4.1	6.1

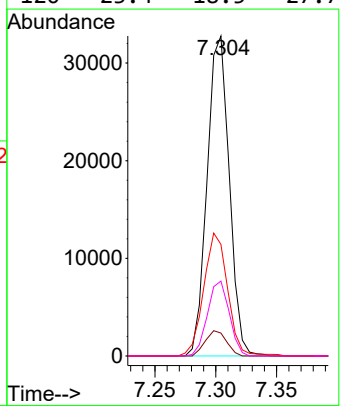


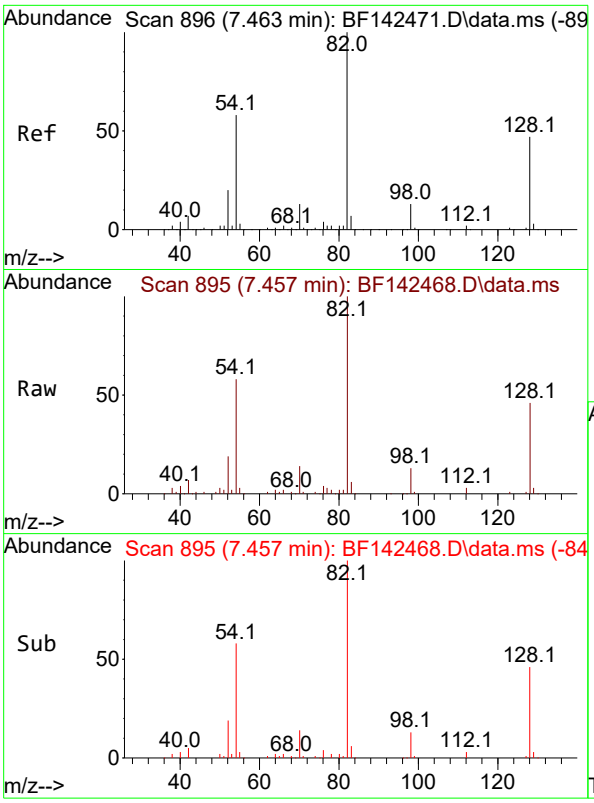


#22
Acetophenone
Concen: 5.423 ng
RT: 7.304 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:105 Resp: 41438

Ion	Ratio	Lower	Upper
105	100		
71	7.2	6.4	9.6
51	34.9	28.6	42.8
120	23.4	18.5	27.7



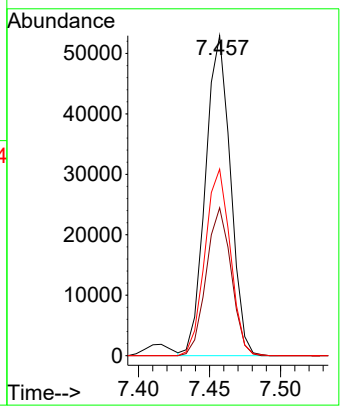


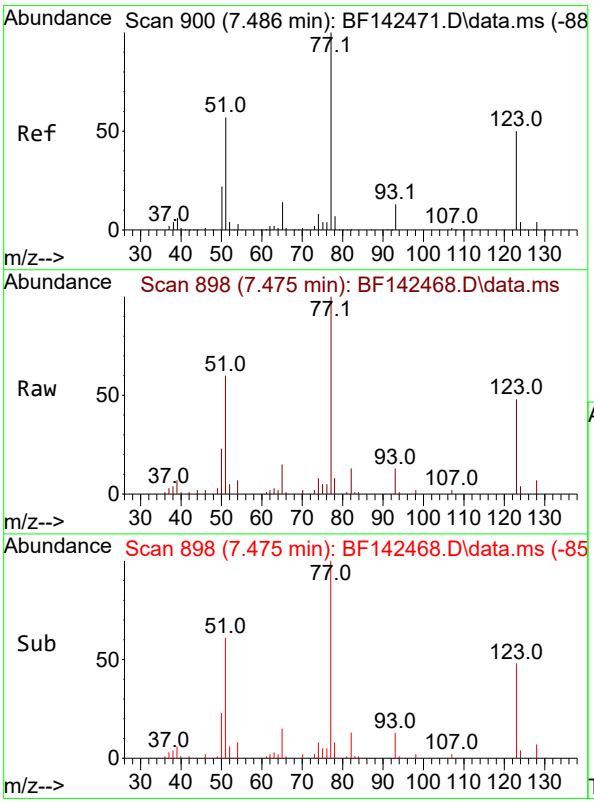
#23
Nitrobenzene-d5
Concen: 10.249 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 64876

Ion	Ratio	Lower	Upper
82	100		
128	46.2	37.4	56.2
54	58.3	46.6	70.0

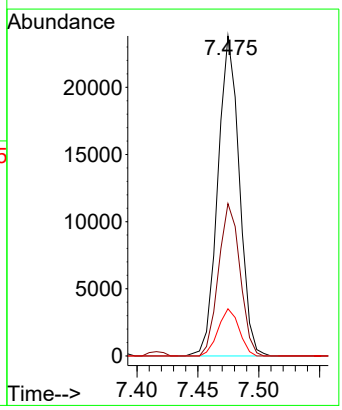


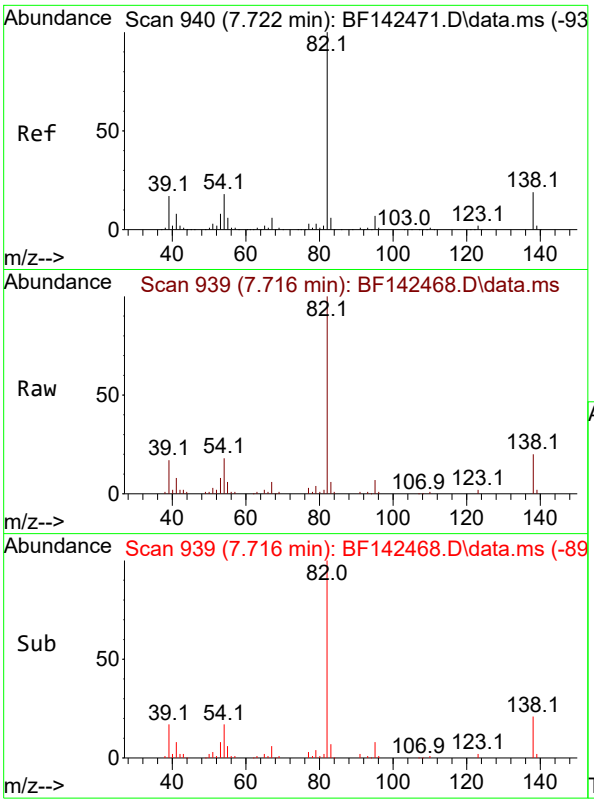


#24
Nitrobenzene
Concen: 5.114 ng
RT: 7.475 min Scan# 898
Delta R.T. -0.018 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion: 77 Resp: 29193

Ion	Ratio	Lower	Upper
77	100		
123	47.6	40.6	61.0
65	14.7	11.4	17.2



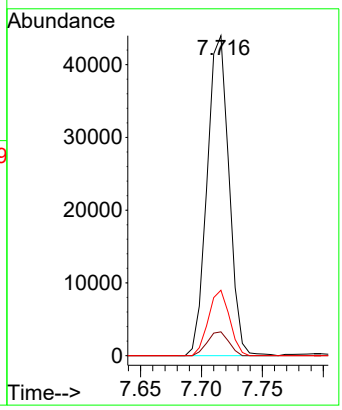


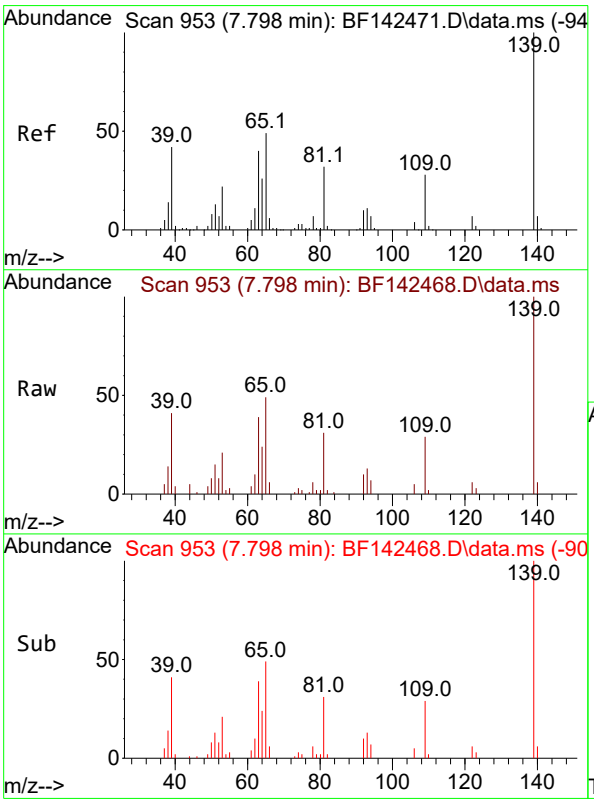
#25
Isophorone
Concen: 5.182 ng
RT: 7.716 min Scan# 9
Delta R.T. -0.018 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 54838

Ion	Ratio	Lower	Upper
82	100		
95	7.4	6.0	9.0
138	20.4	15.5	23.3

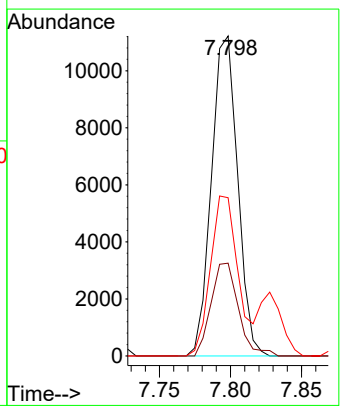


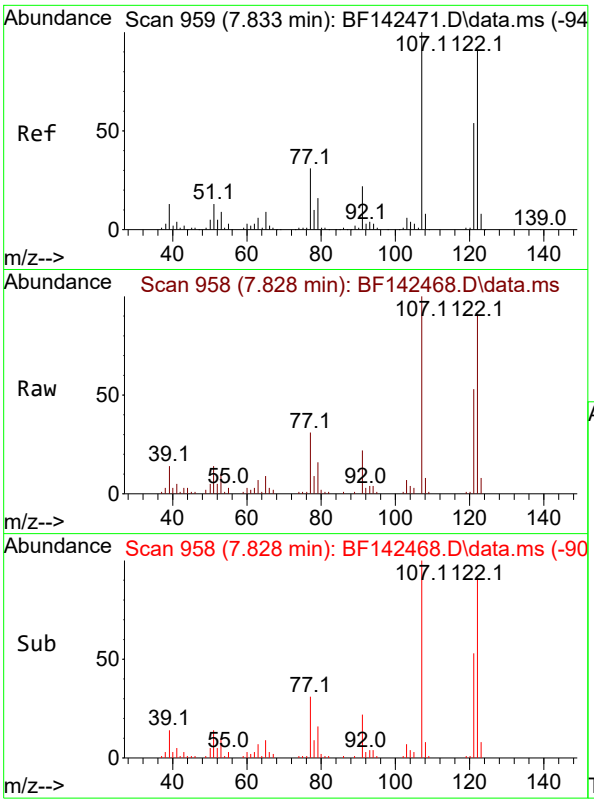


#26
2-Nitrophenol
Concen: 4.716 ng
RT: 7.798 min Scan# 953
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:139 Resp: 14387

Ion	Ratio	Lower	Upper
139	100		
109	29.0	22.6	33.8
65	49.4	39.4	59.0



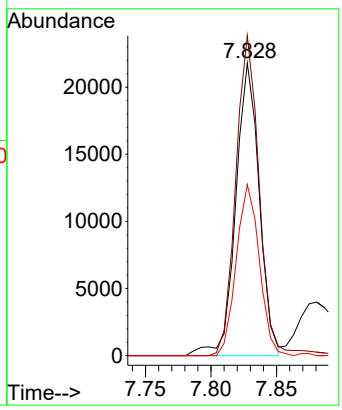


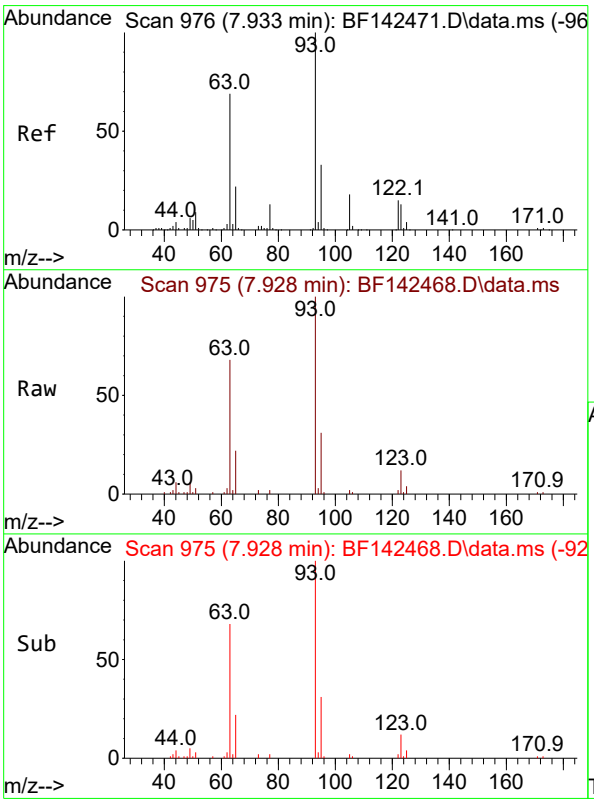
#27
2,4-Dimethylphenol
Concen: 5.051 ng
RT: 7.828 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:122 Resp: 27170

Ion	Ratio	Lower	Upper
122	100		
107	109.4	88.1	132.1
121	58.4	47.3	70.9

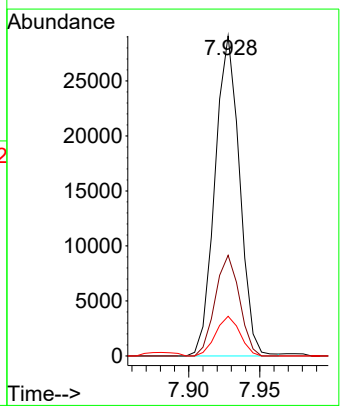


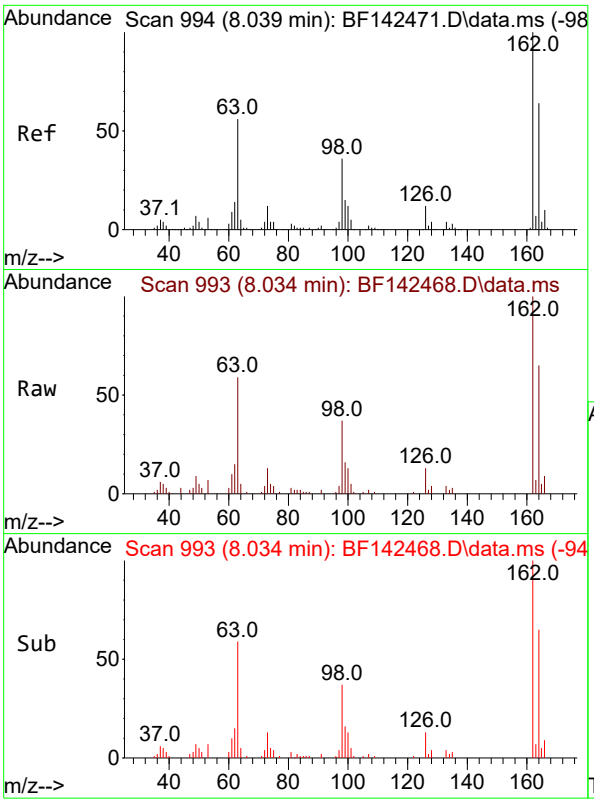


#28
bis(2-Chloroethoxy)methane
Concen: 5.296 ng
RT: 7.928 min Scan# 975
Delta R.T. -0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion: 93 Resp: 35010

Ion	Ratio	Lower	Upper
93	100		
95	31.4	26.4	39.6
123	12.4	10.6	15.8



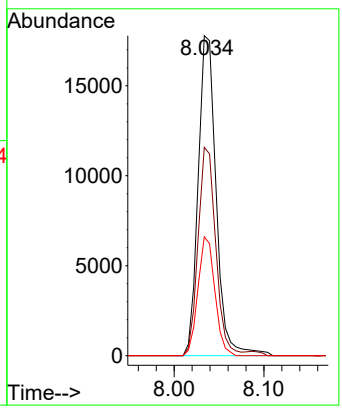


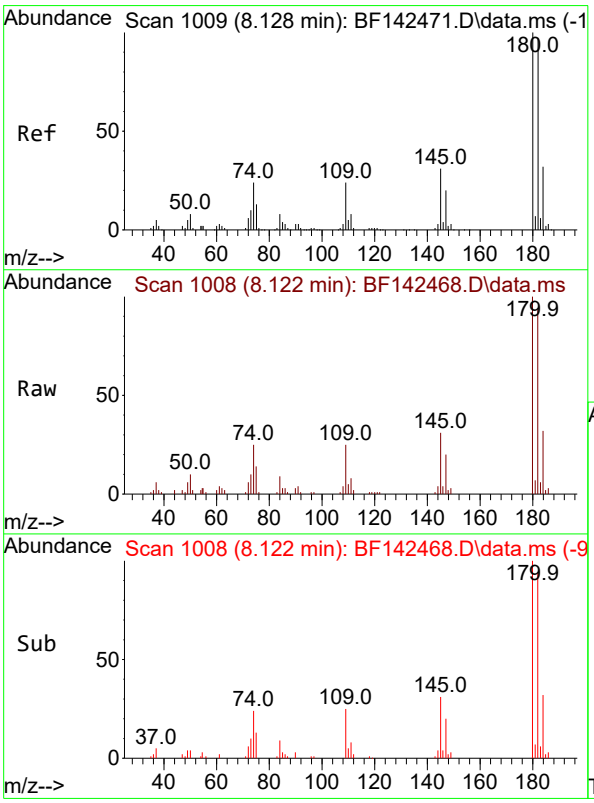
#29
2,4-Dichlorophenol
Concen: 5.072 ng
RT: 8.034 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:162 Resp: 24812

Ion	Ratio	Lower	Upper
162	100		
164	65.1	43.7	83.7
98	37.2	15.5	55.5

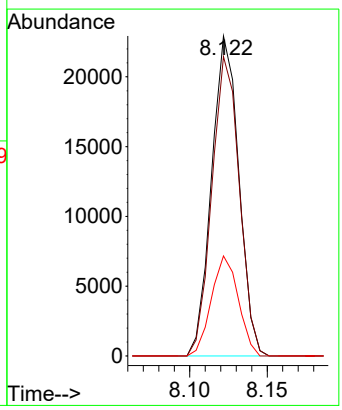


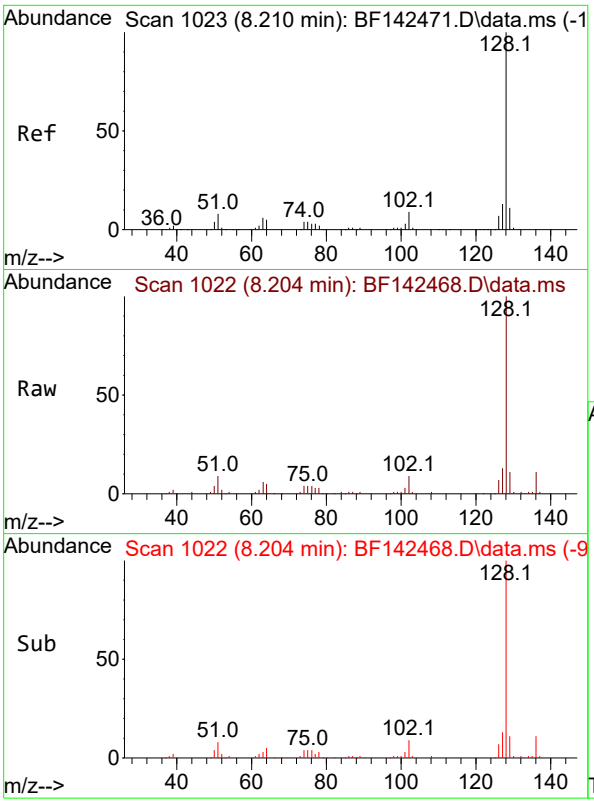


#30
1,2,4-Trichlorobenzene
Concen: 5.281 ng
RT: 8.122 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:180 Resp: 28037

Ion	Ratio	Lower	Upper
180	100		
182	93.5	78.0	117.0
145	31.3	25.0	37.6



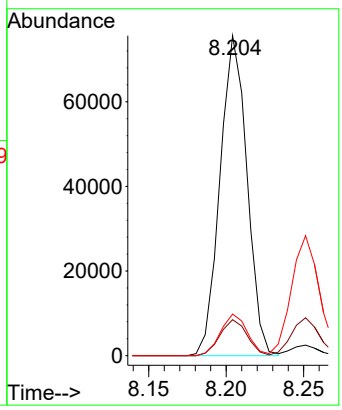


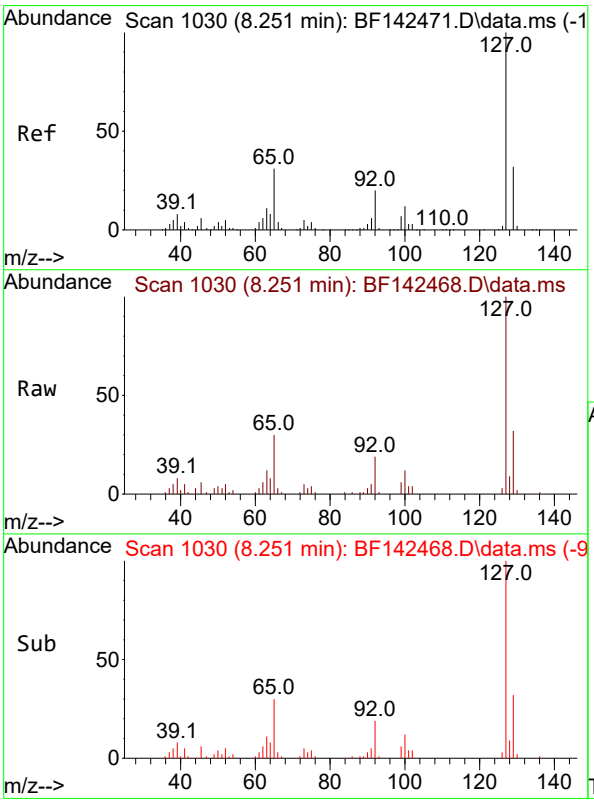
#31
Naphthalene
Concen: 5.388 ng
RT: 8.204 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:128 Resp: 91563

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.9	13.3
127	13.0	10.5	15.7

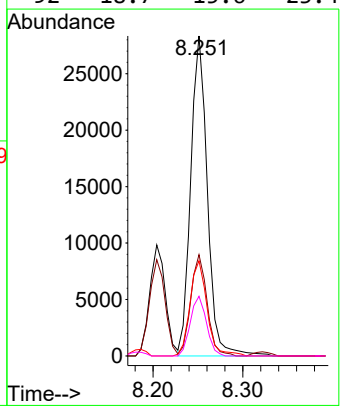


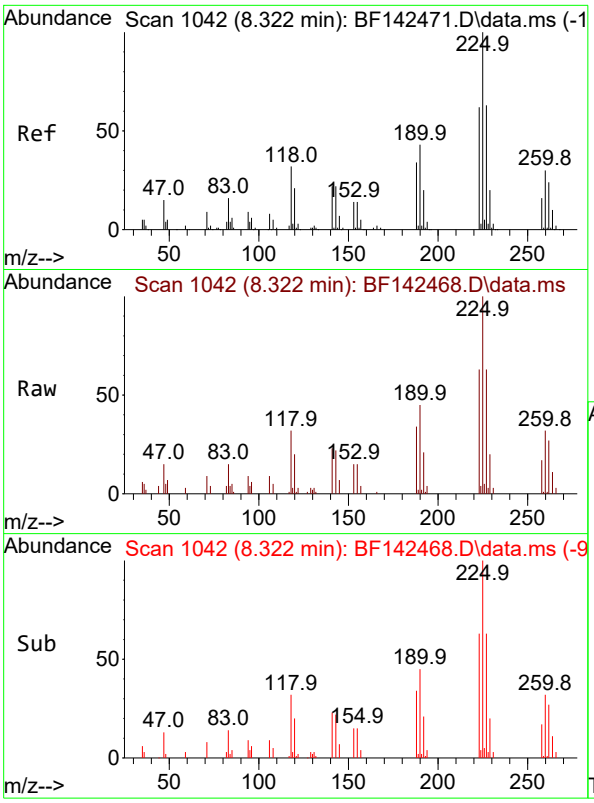


#33
4-Chloroaniline
Concen: 5.314 ng
RT: 8.251 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:127 Resp: 36597

Ion	Ratio	Lower	Upper
127	100		
129	31.6	26.1	39.1
65	29.7	24.9	37.3
92	18.7	15.6	23.4



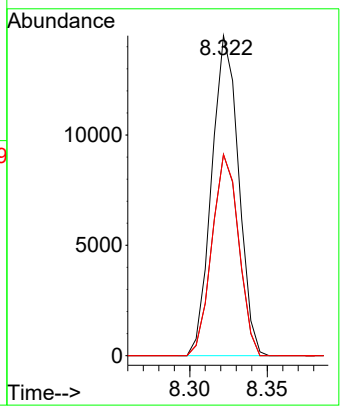


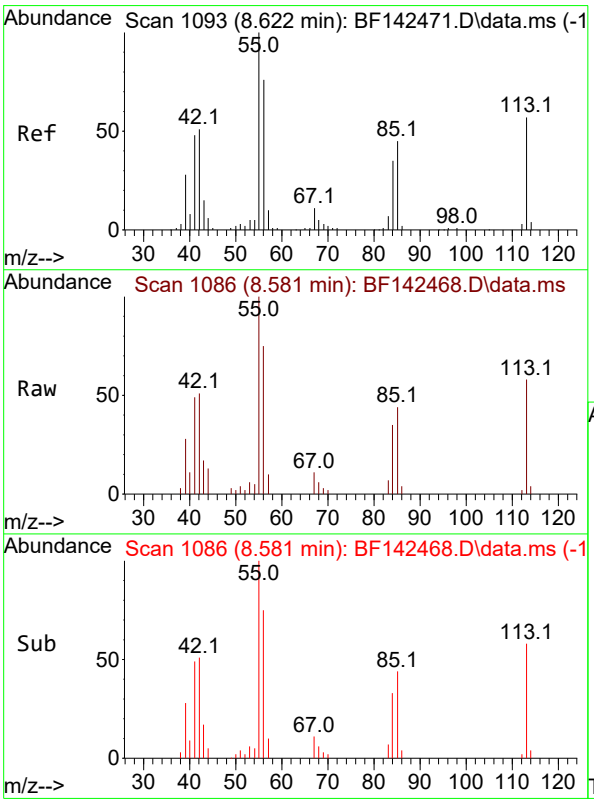
#34
Hexachlorobutadiene
Concen: 5.280 ng
RT: 8.322 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:225 Resp: 17505

Ion	Ratio	Lower	Upper
225	100		
223	62.9	49.7	74.5
227	62.8	50.3	75.5

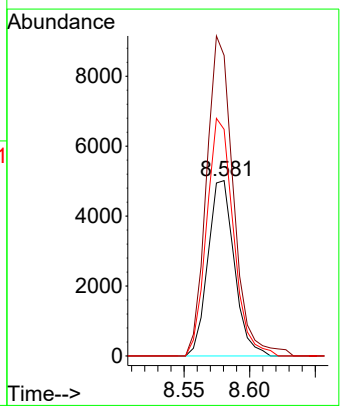


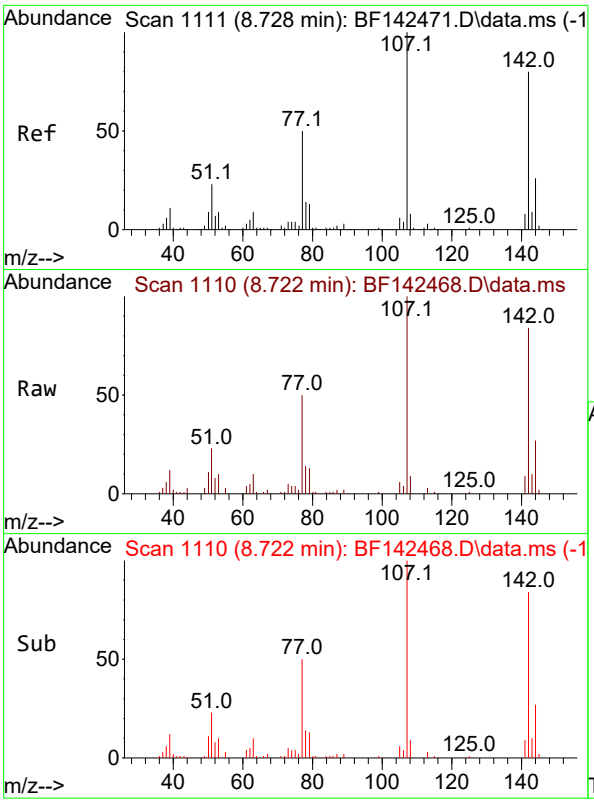


#35
Caprolactam
Concen: 5.109 ng
RT: 8.581 min Scan# 1086
Delta R.T. -0.065 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:113 Resp: 7020

Ion	Ratio	Lower	Upper
113	100		
55	171.4	154.7	194.7
56	129.2	113.2	153.2



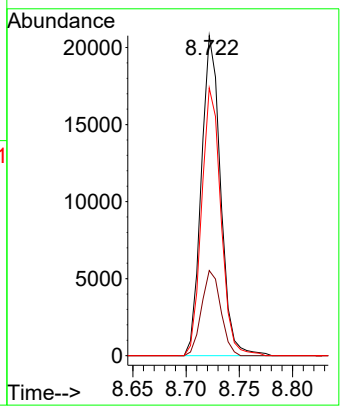


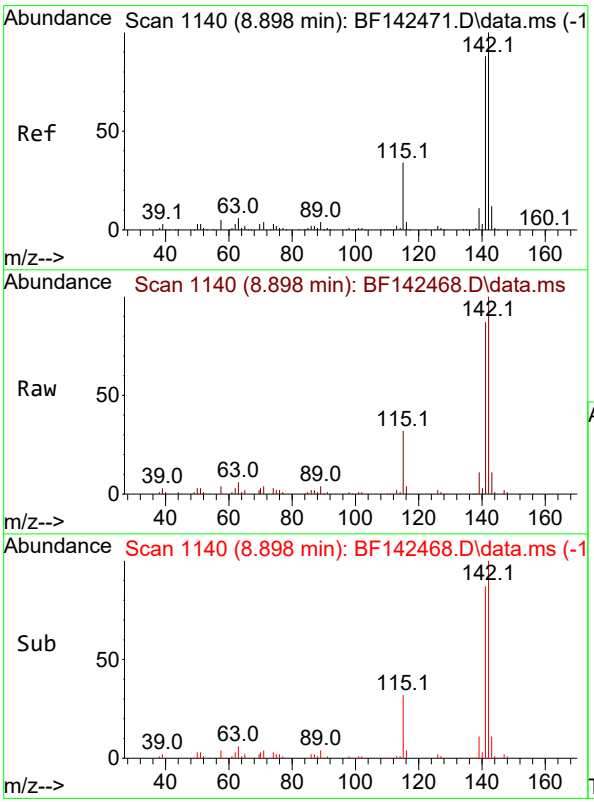
#36
4-Chloro-3-methylphenol
Concen: 5.225 ng
RT: 8.722 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:107 Resp: 26197

Ion	Ratio	Lower	Upper
107	100		
144	26.6	20.9	31.3
142	83.7	64.2	96.2

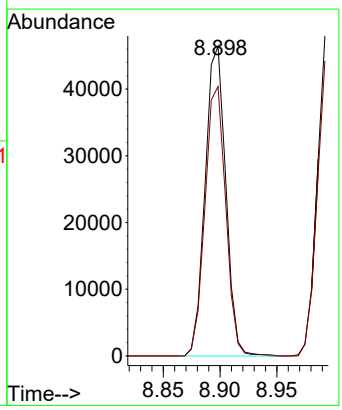


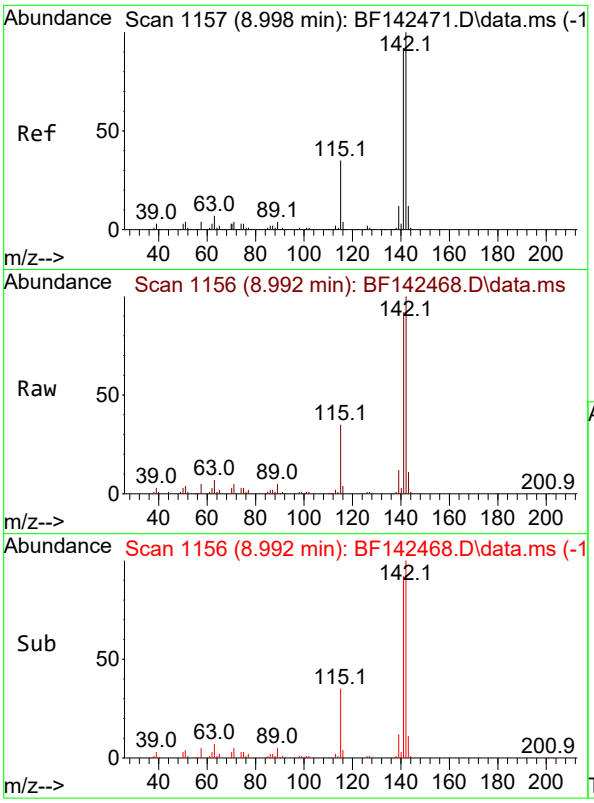


#37
2-Methylnaphthalene
Concen: 5.478 ng
RT: 8.898 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:142 Resp: 58574

Ion	Ratio	Lower	Upper
142	100		
141	87.0	70.7	106.1



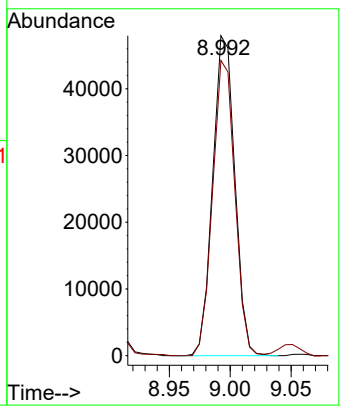


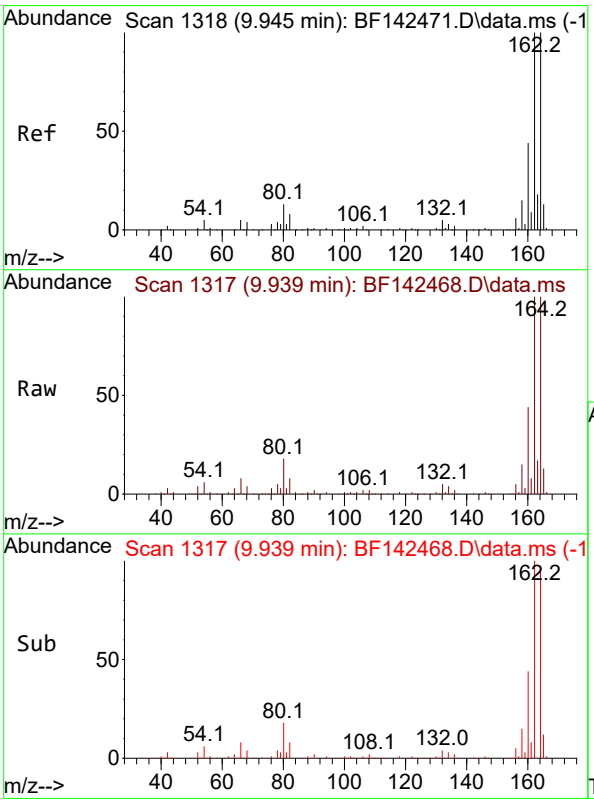
#38
1-Methylnaphthalene
Concen: 5.486 ng
RT: 8.992 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:142 Resp: 60674

Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.4	110.2

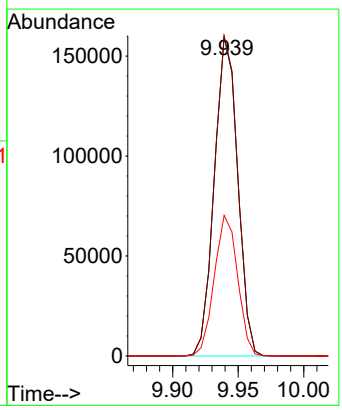


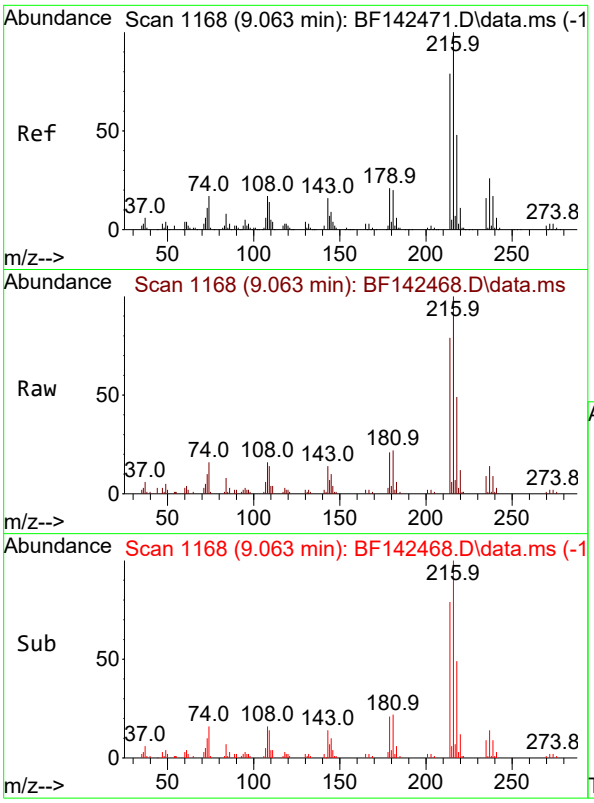


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:164 Resp: 197100

Ion	Ratio	Lower	Upper
164	100		
162	100.4	80.2	120.4
160	44.1	35.6	53.4



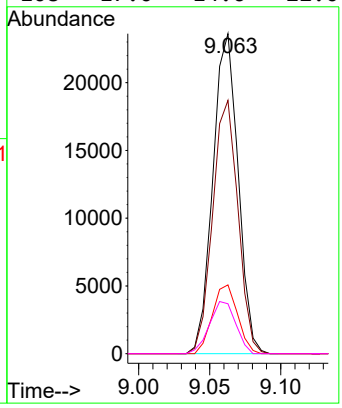


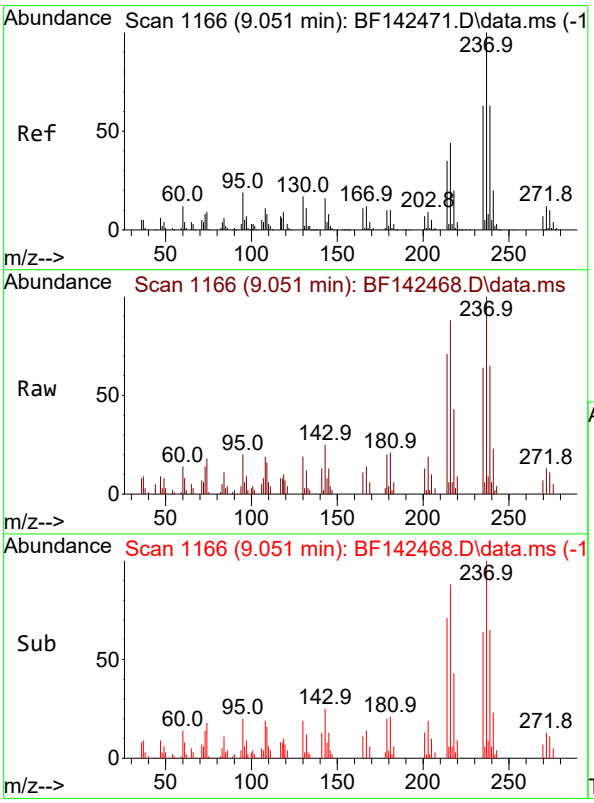
#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.152 ng
RT: 9.063 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:216 Resp: 29150

Ion	Ratio	Lower	Upper
216	100		
214	79.4	62.9	94.3
179	21.5	16.9	25.3
108	17.0	14.6	22.0

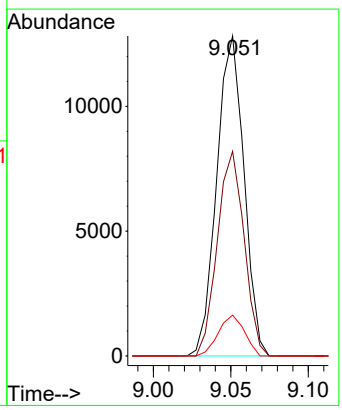


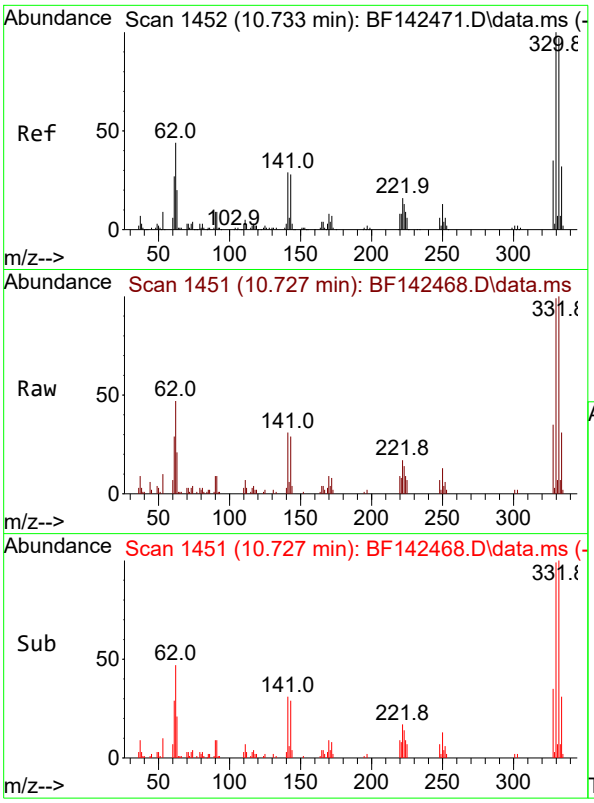


#41
Hexachlorocyclopentadiene
Concen: 4.105 ng
RT: 9.051 min Scan# 1166
Delta R.T. 0.000 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:237 Resp: 15667

Ion	Ratio	Lower	Upper
237	100		
235	64.0	43.3	83.3
272	12.7	0.0	32.4



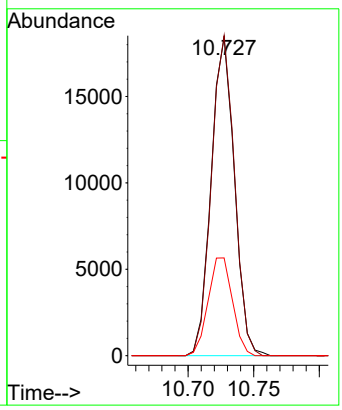


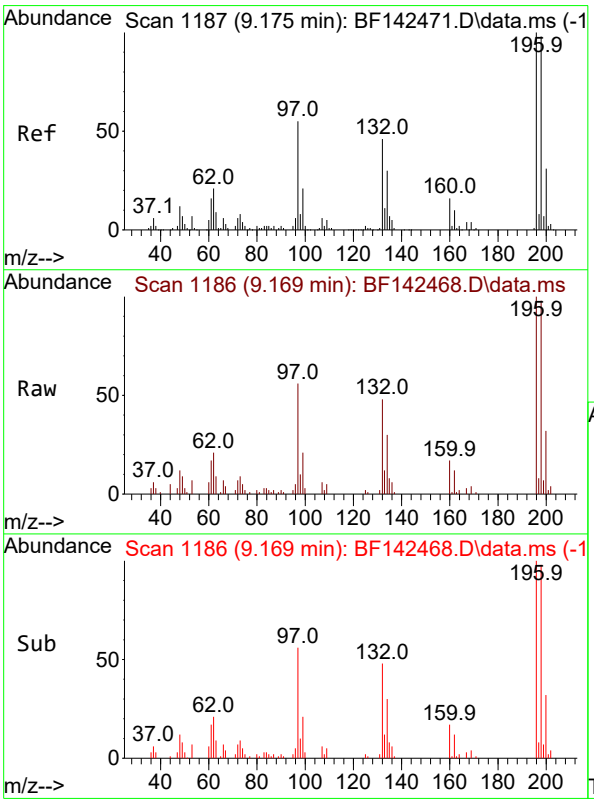
#42
2,4,6-Tribromophenol
Concen: 10.378 ng
RT: 10.727 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:330 Resp: 22702

Ion	Ratio	Lower	Upper
330	100		
332	99.5	77.6	116.4
141	32.2	24.6	36.8

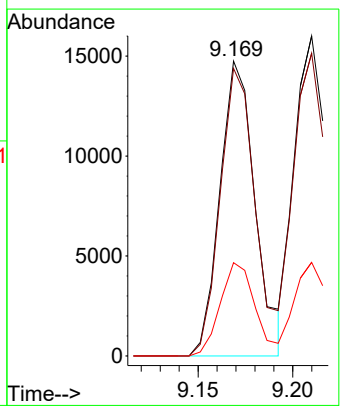


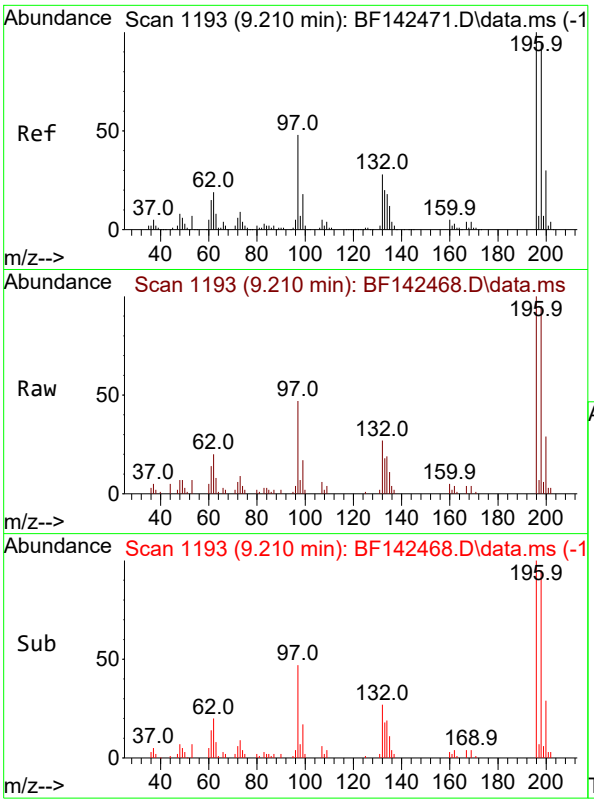


#43
2,4,6-Trichlorophenol
Concen: 5.001 ng
RT: 9.169 min Scan# 1186
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:196 Resp: 19079

Ion	Ratio	Lower	Upper
196	100		
198	97.5	78.8	118.2
200	31.6	24.9	37.3



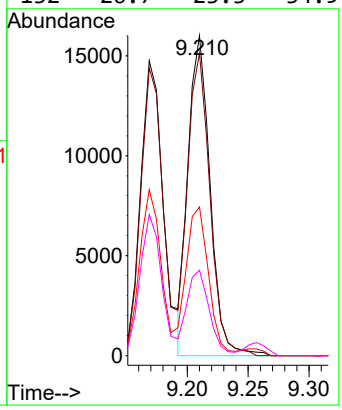


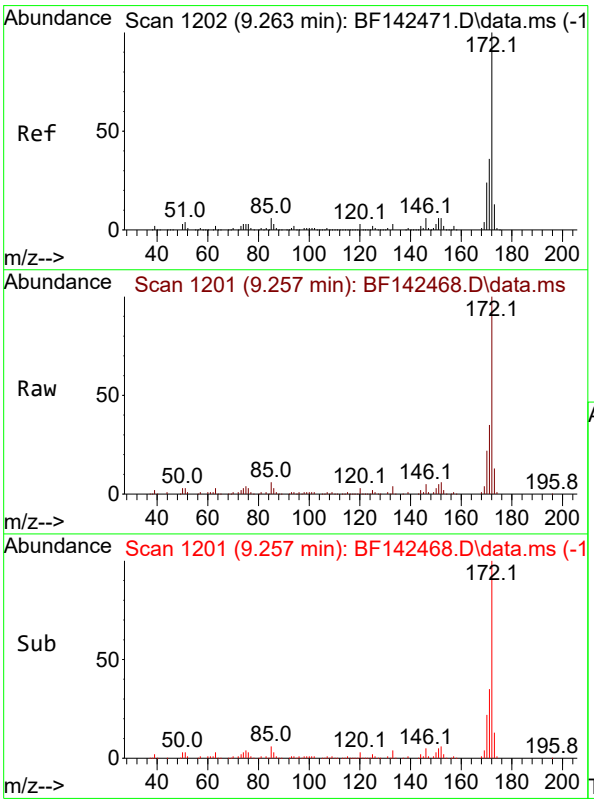
#44
2,4,5-Trichlorophenol
Concen: 5.020 ng
RT: 9.210 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:196 Resp: 20200

Ion	Ratio	Lower	Upper
196	100		
198	94.6	75.5	113.3
97	46.5	39.3	58.9
132	26.7	23.3	34.9

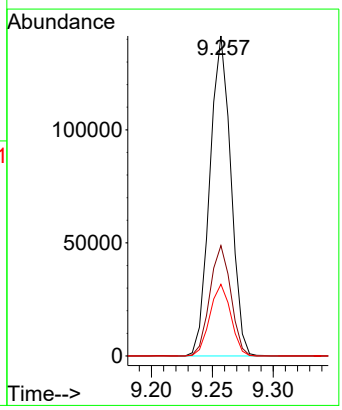


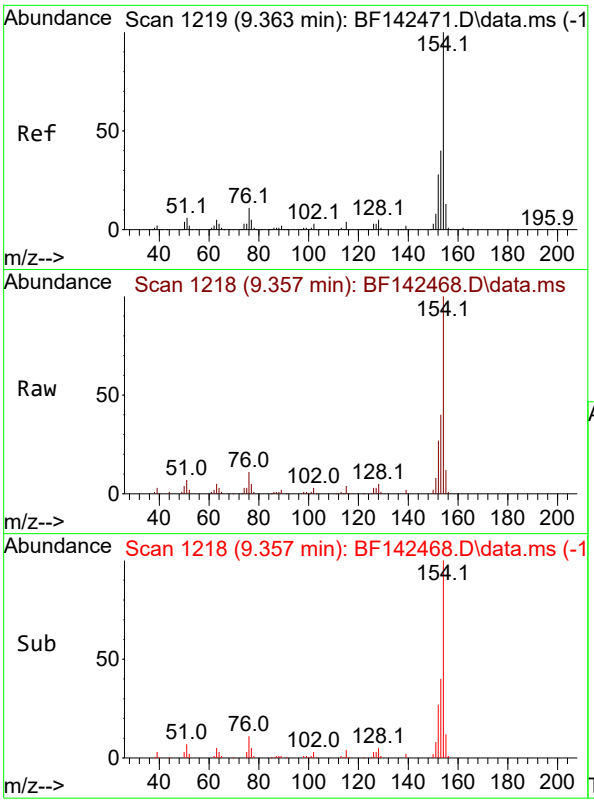


#45
2-Fluorobiphenyl
Concen: 11.583 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:172 Resp: 170142

Ion	Ratio	Lower	Upper
172	100		
171	34.5	28.6	42.8
170	22.4	18.9	28.3



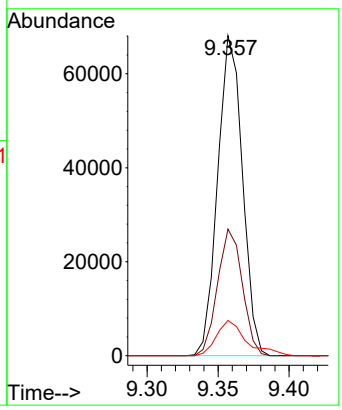


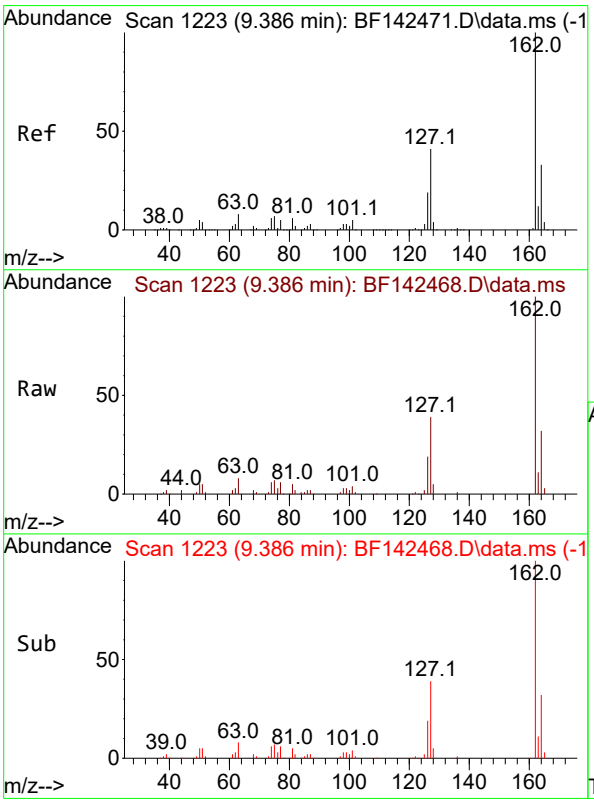
#46
1,1'-Biphenyl
Concen: 5.387 ng
RT: 9.357 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:154 Resp: 82376

Ion	Ratio	Lower	Upper
154	100		
153	39.5	20.4	60.4
76	11.0	0.0	30.8

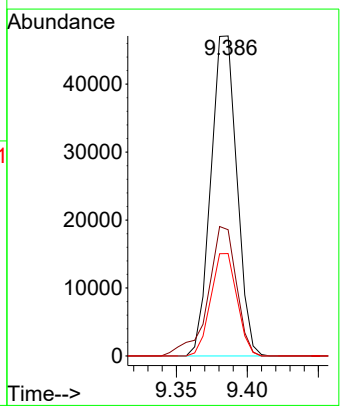


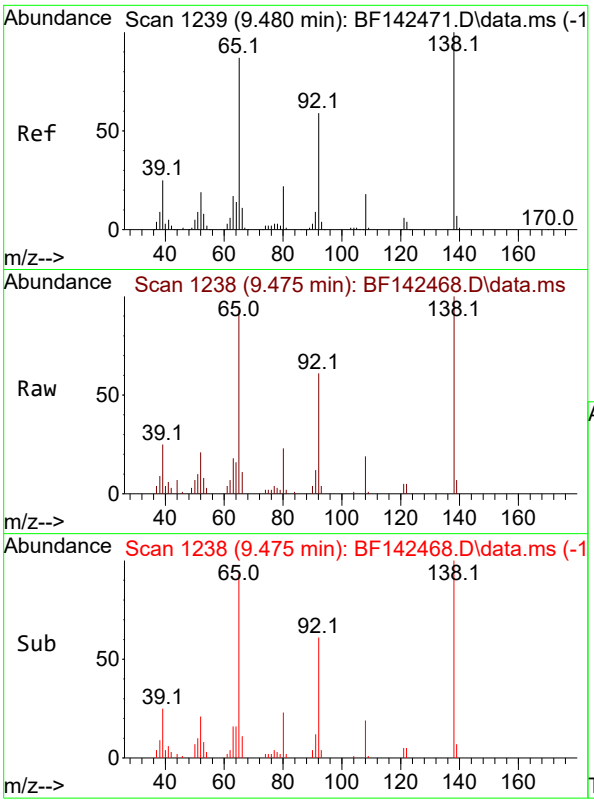


#47
2-Chloronaphthalene
Concen: 5.311 ng
RT: 9.386 min Scan# 1223
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:162 Resp: 60002

Ion	Ratio	Lower	Upper
162	100		
127	39.4	33.5	50.3
164	32.0	26.1	39.1



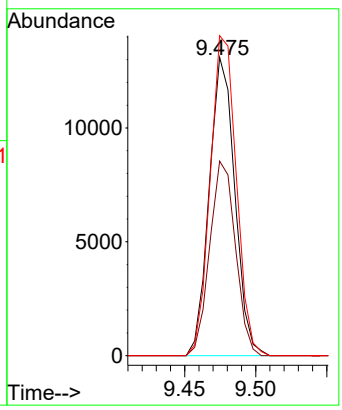


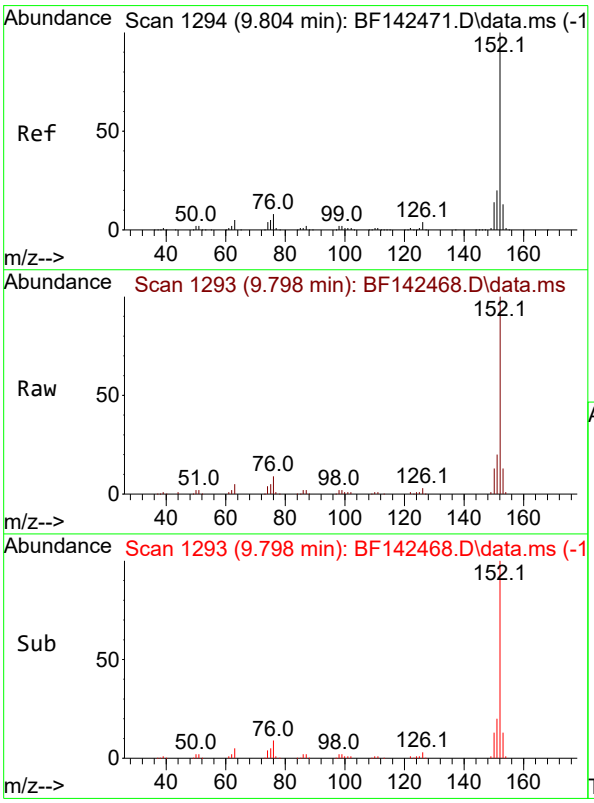
#48
2-Nitroaniline
Concen: 5.022 ng
RT: 9.475 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 65 Resp: 16399

Ion	Ratio	Lower	Upper
65	100		
92	65.2	54.4	81.6
138	107.2	91.4	137.2

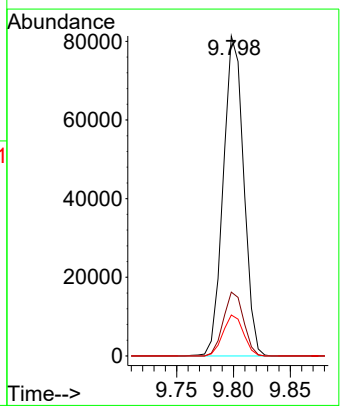


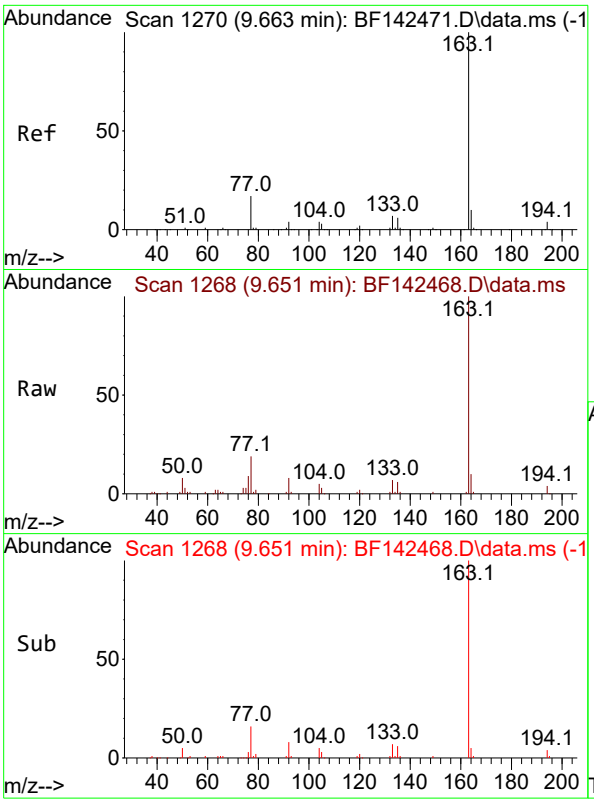


#49
Acenaphthylene
Concen: 5.330 ng
RT: 9.798 min Scan# 1293
Delta R.T. -0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:152 Resp: 101686

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.8
153	12.8	10.6	15.8



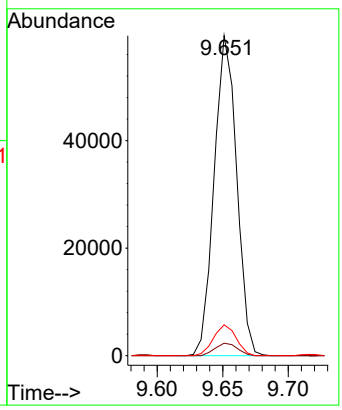


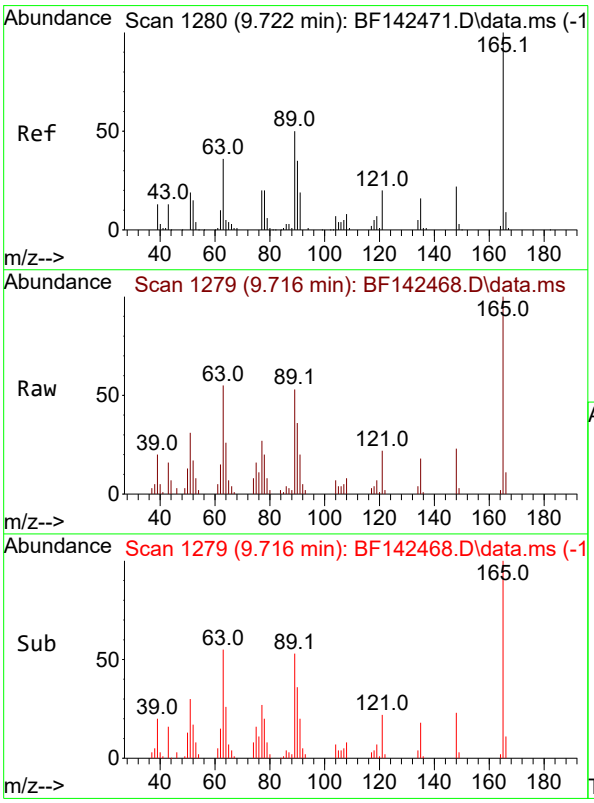
#50
Dimethylphthalate
Concen: 5.461 ng
RT: 9.651 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:163 Resp: 71020

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.3	4.9
164	9.7	8.2	12.4

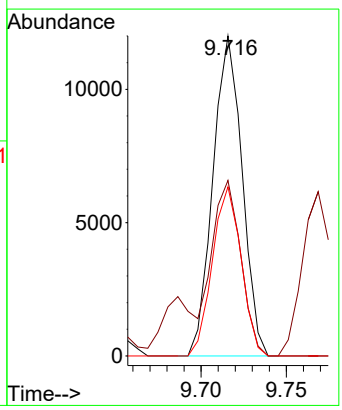


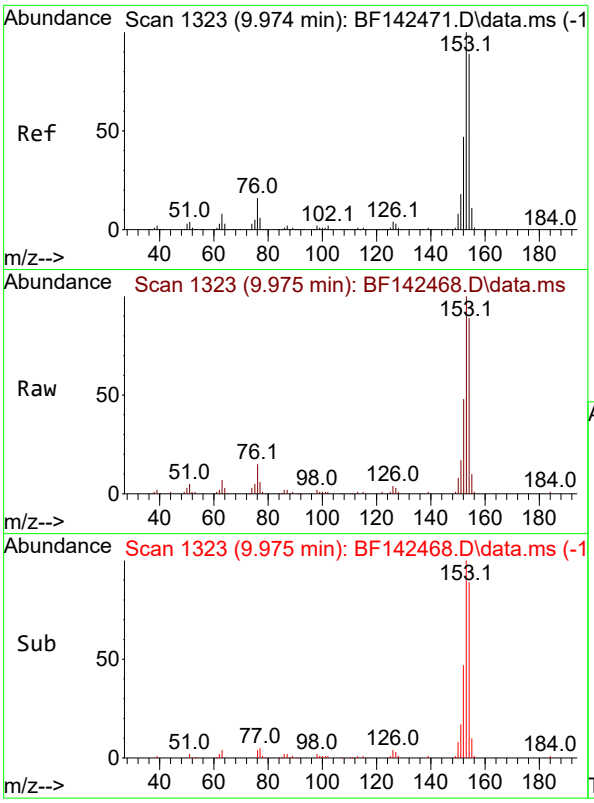


#51
2,6-Dinitrotoluene
Concen: 5.093 ng
RT: 9.716 min Scan# 1279
Delta R.T. -0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:165 Resp: 14295

Ion	Ratio	Lower	Upper
165	100		
63	54.8	42.9	64.3
89	52.9	40.2	60.4



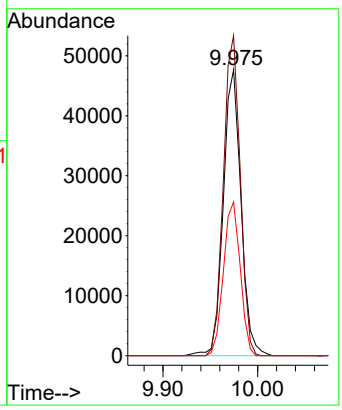


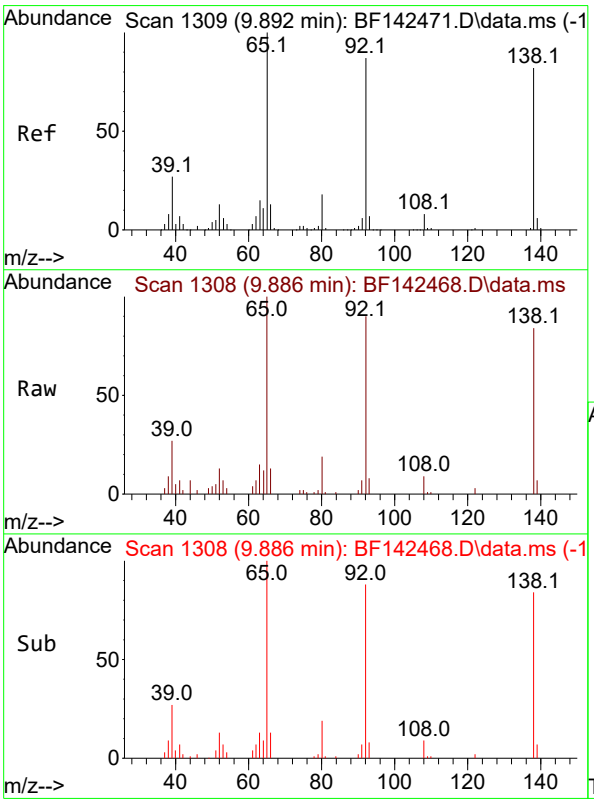
#52
Acenaphthene
Concen: 5.325 ng
RT: 9.975 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:154 Resp: 62026

Ion	Ratio	Lower	Upper
154	100		
153	111.9	90.0	135.0
152	53.8	42.6	64.0

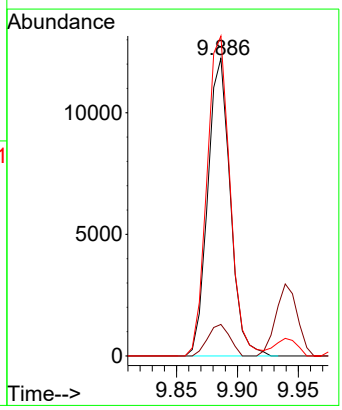


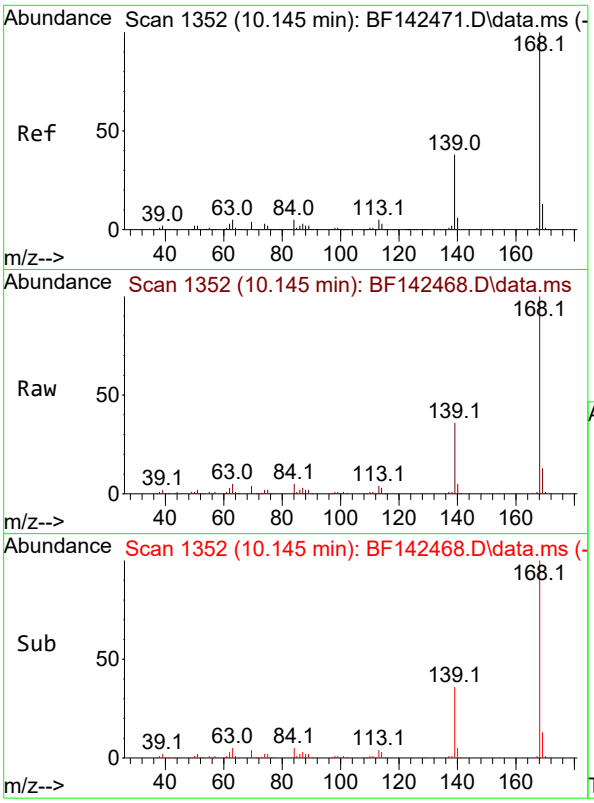


#53
3-Nitroaniline
Concen: 5.137 ng
RT: 9.886 min Scan# 1308
Delta R.T. -0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:138 Resp: 15749

Ion	Ratio	Lower	Upper
138	100		
108	10.6	8.1	12.1
92	107.5	85.2	127.8



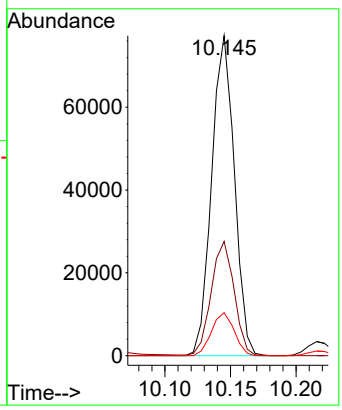


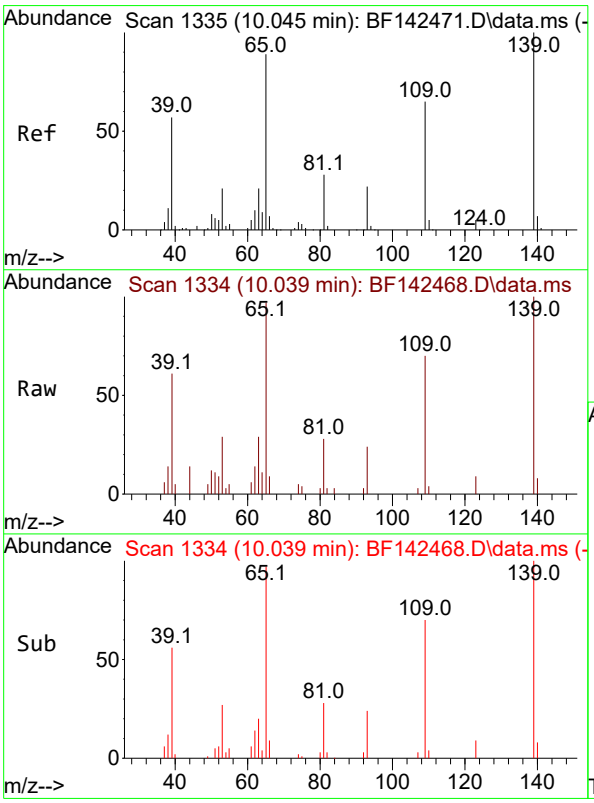
#55
Dibenzofuran
Concen: 5.545 ng
RT: 10.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:168 Resp: 92955

Ion	Ratio	Lower	Upper
168	100		
139	35.7	30.2	45.2
169	13.5	10.7	16.1

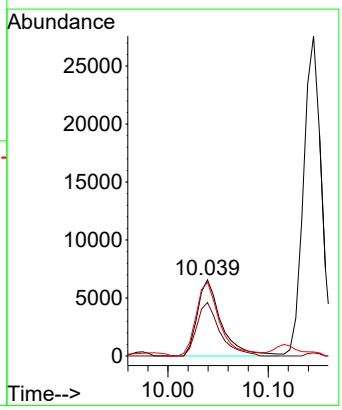


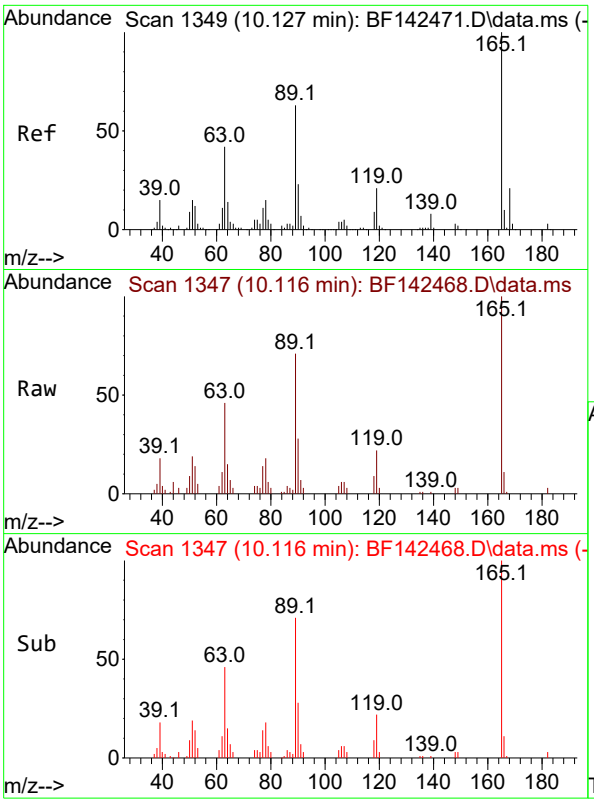


#56
4-Nitrophenol
Concen: 4.808 ng
RT: 10.039 min Scan# 1334
Delta R.T. -0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:139 Resp: 10876

Ion	Ratio	Lower	Upper
139	100		
109	70.0	45.1	85.1
65	96.7	69.7	109.7



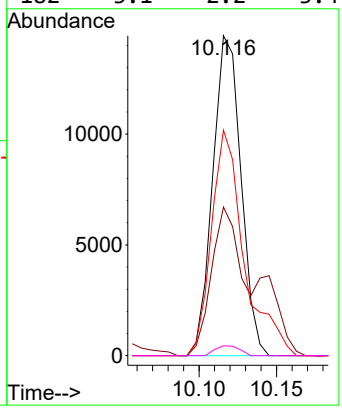


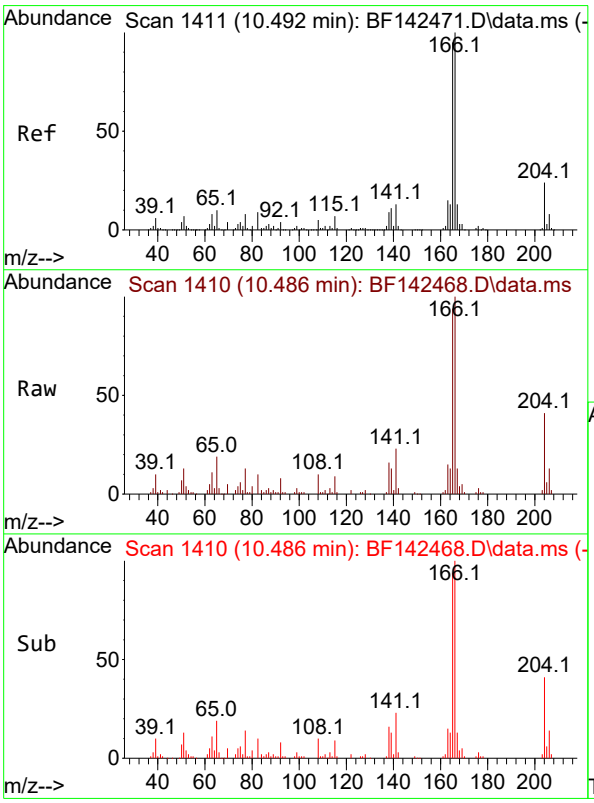
#57
2,4-Dinitrotoluene
Concen: 4.998 ng
RT: 10.116 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:165 Resp: 18322

Ion	Ratio	Lower	Upper
165	100		
63	46.5	33.6	50.4
89	70.5	50.2	75.4
182	3.1	2.2	3.4

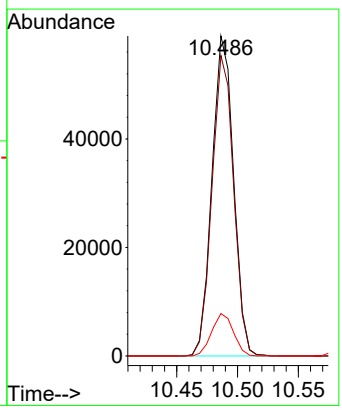


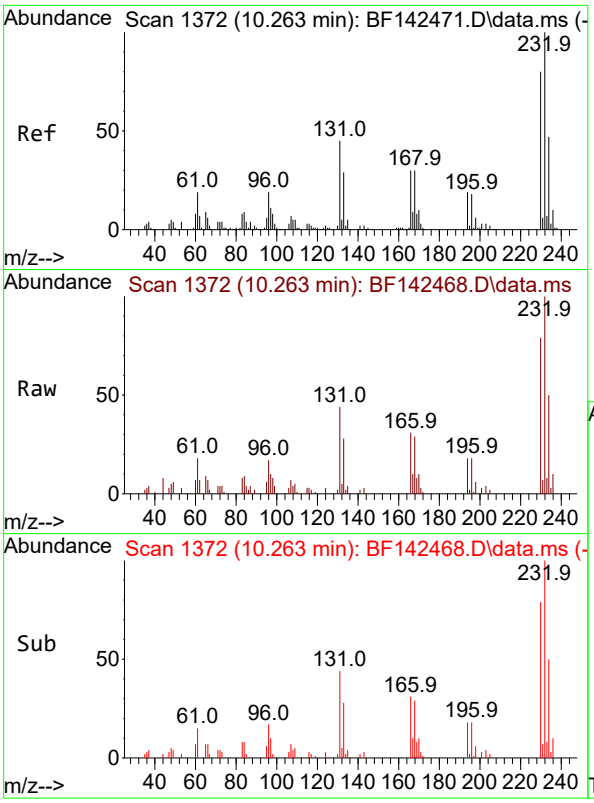


#58
Fluorene
Concen: 5.620 ng
RT: 10.486 min Scan# 1410
Delta R.T. -0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:166 Resp: 72775

Ion	Ratio	Lower	Upper
166	100		
165	93.9	75.8	113.8
167	13.2	10.6	16.0



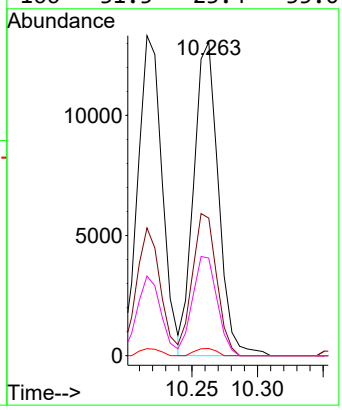


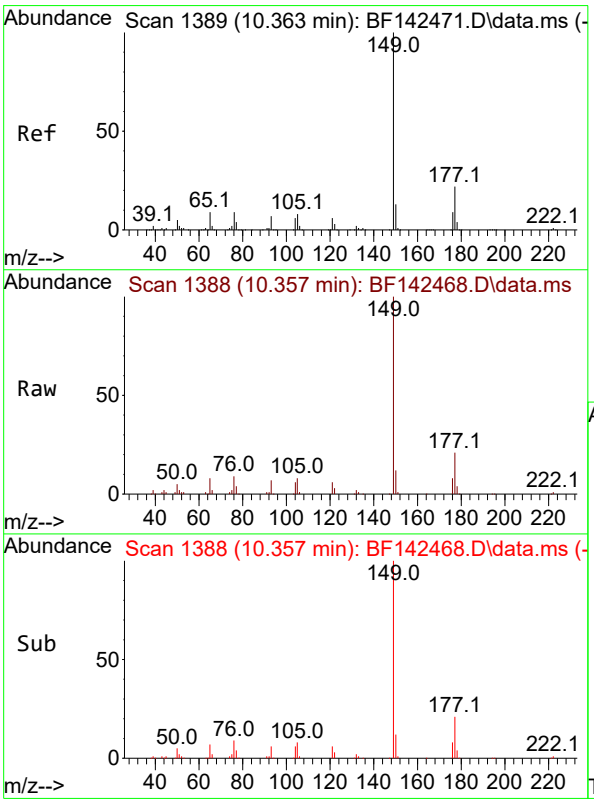
#59
2,3,4,6-Tetrachlorophenol
Concen: 5.090 ng
RT: 10.263 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:232 Resp: 17096

Ion	Ratio	Lower	Upper
232	100		
131	44.4	35.2	52.8
130	1.9	1.7	2.5
166	31.5	23.4	35.0

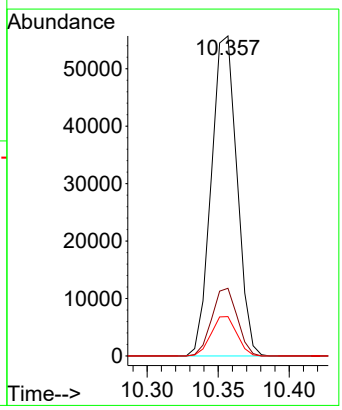


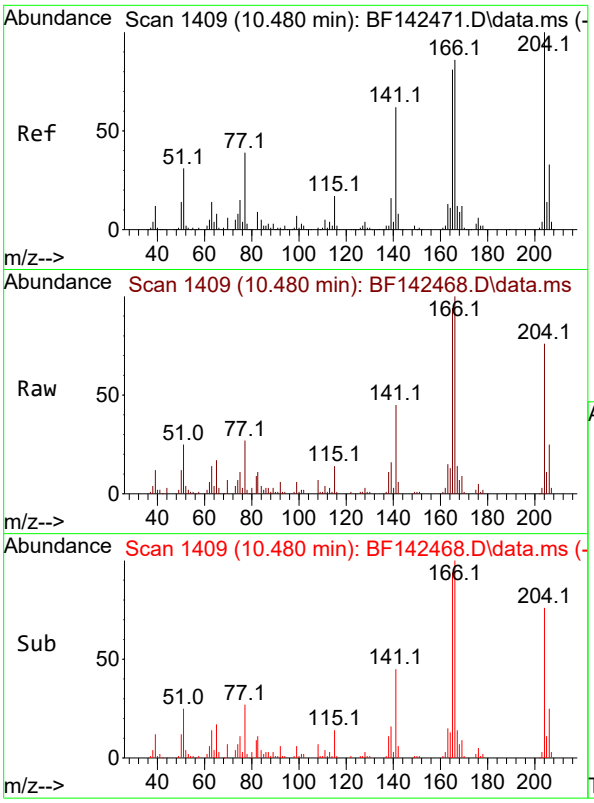


#60
Diethylphthalate
Concen: 5.515 ng
RT: 10.357 min Scan# 1388
Delta R.T. -0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:149 Resp: 70046

Ion	Ratio	Lower	Upper
149	100		
177	21.2	17.6	26.4
150	12.3	10.1	15.1



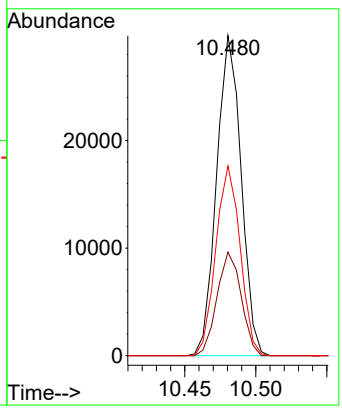


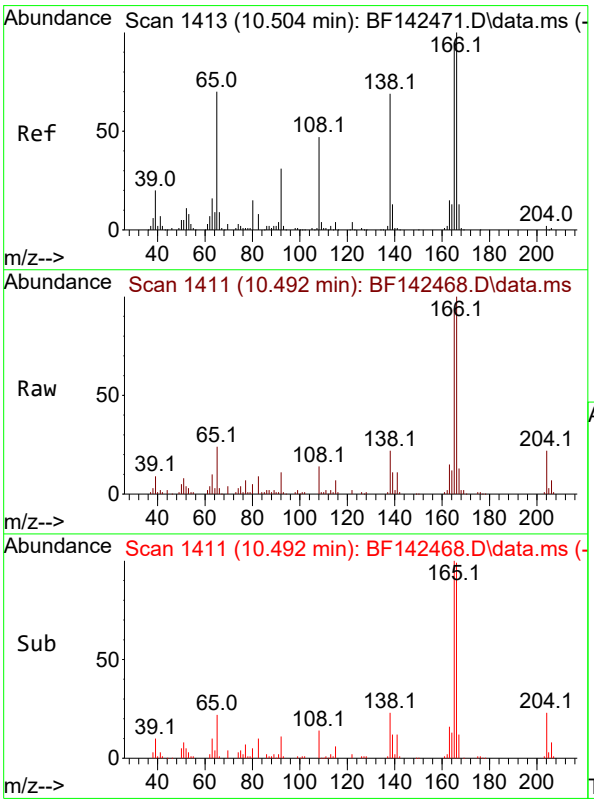
#61
4-Chlorophenyl-phenylether
Concen: 5.611 ng
RT: 10.480 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:204 Resp: 35694

Ion	Ratio	Lower	Upper
204	100		
206	32.3	26.3	39.5
141	59.3	49.5	74.3

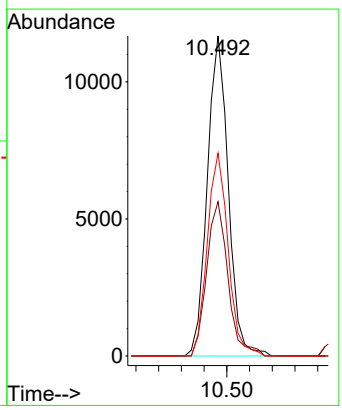


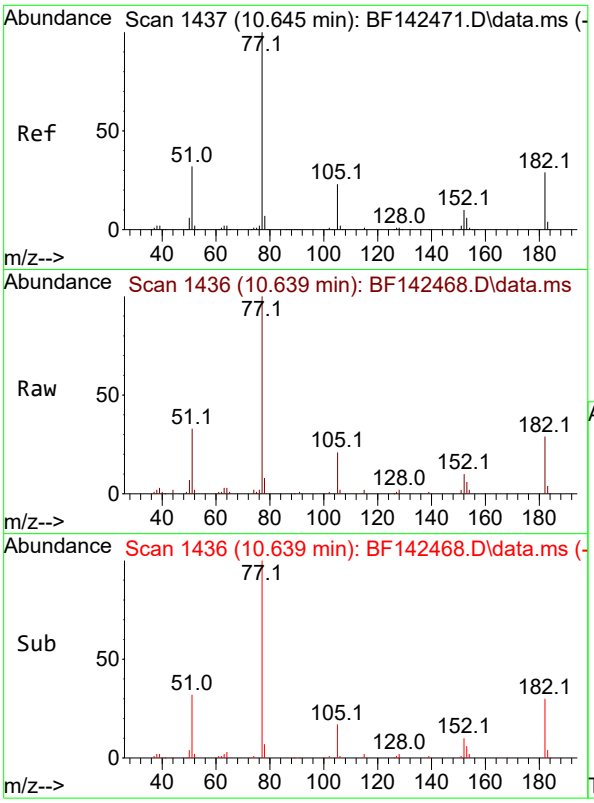


#62
4-Nitroaniline
Concen: 5.366 ng
RT: 10.492 min Scan# 1411
Delta R.T. -0.023 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:138 Resp: 14920

Ion	Ratio	Lower	Upper
138	100		
92	48.2	26.0	66.0
108	63.4	48.4	88.4



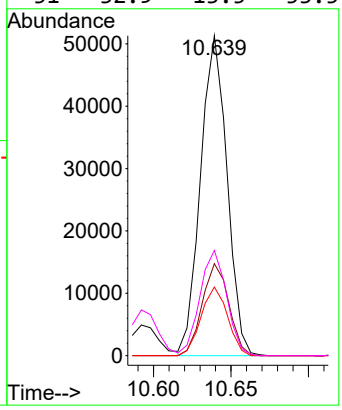


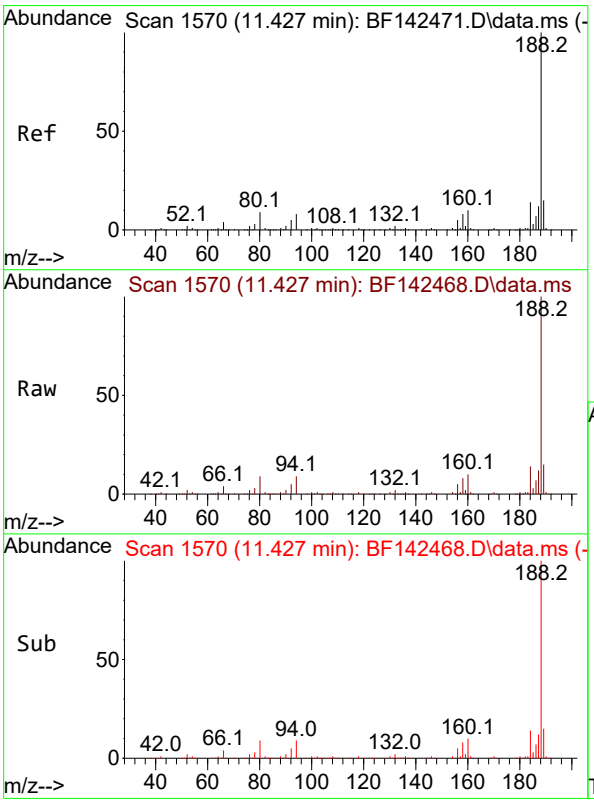
#63
Azobenzene
Concen: 5.351 ng
RT: 10.639 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 77 Resp: 61041

Ion	Ratio	Lower	Upper
77	100		
182	28.8	9.0	49.0
105	21.4	2.4	42.4
51	32.9	13.5	53.5

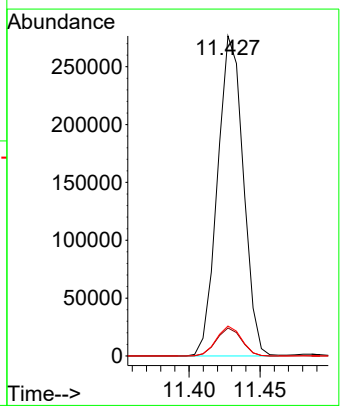


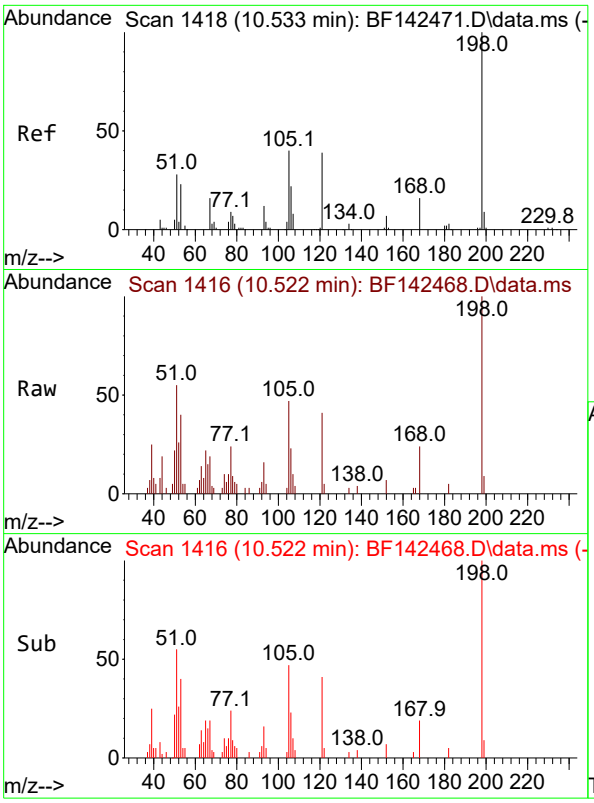


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:188 Resp: 349474

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.6	10.0
80	9.3	7.4	11.0



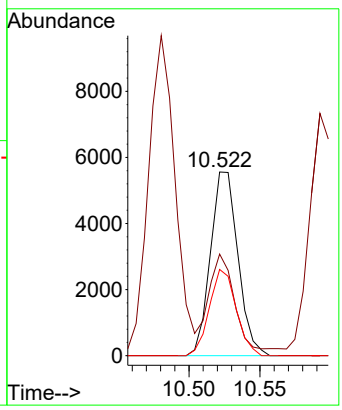


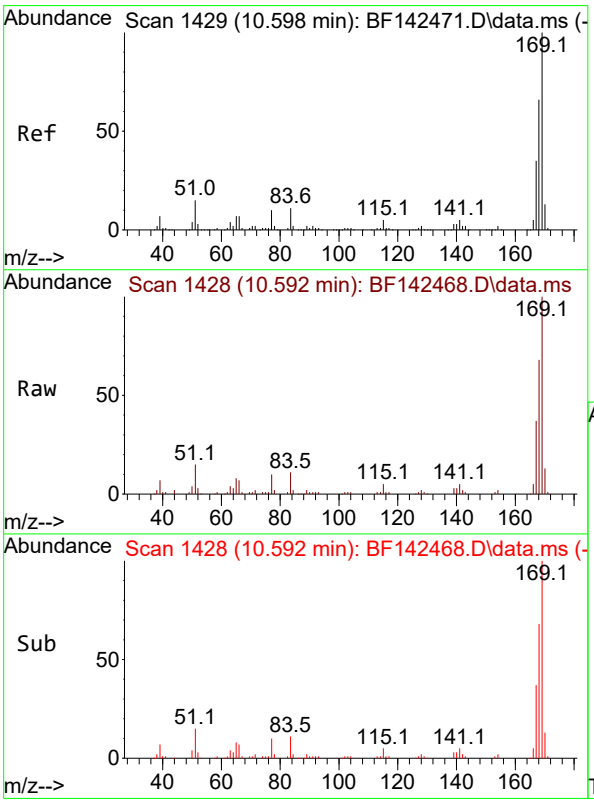
#65
4,6-Dinitro-2-methylphenol
Concen: 3.833 ng
RT: 10.522 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:198 Resp: 7475

Ion	Ratio	Lower	Upper
198	100		
51	55.3	28.3	68.3
105	46.9	21.3	61.3

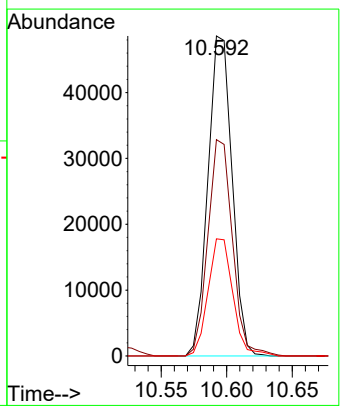


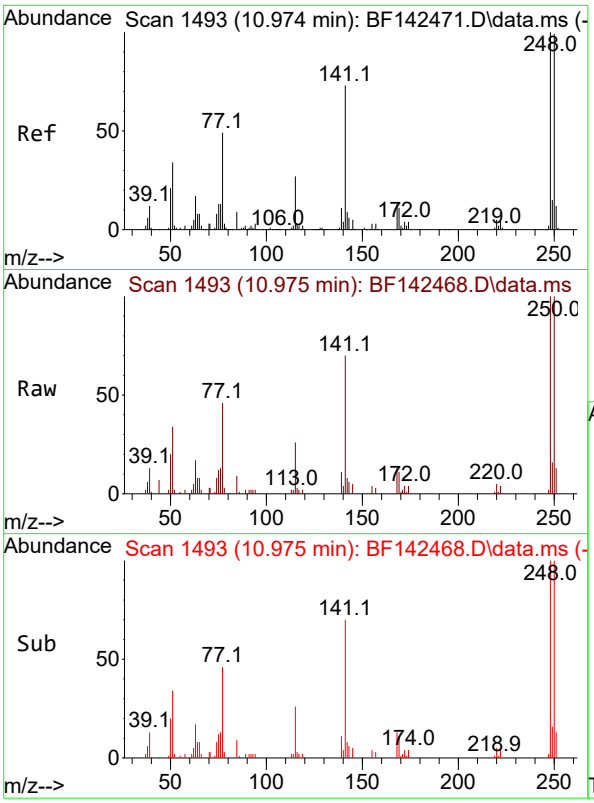


#66
n-Nitrosodiphenylamine
Concen: 5.204 ng
RT: 10.592 min Scan# 1428
Delta R.T. -0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:169 Resp: 62215

Ion	Ratio	Lower	Upper
169	100		
168	67.6	52.7	79.1
167	36.6	28.3	42.5



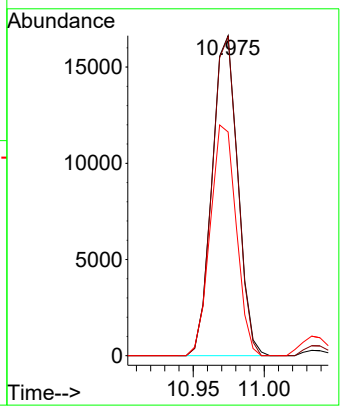


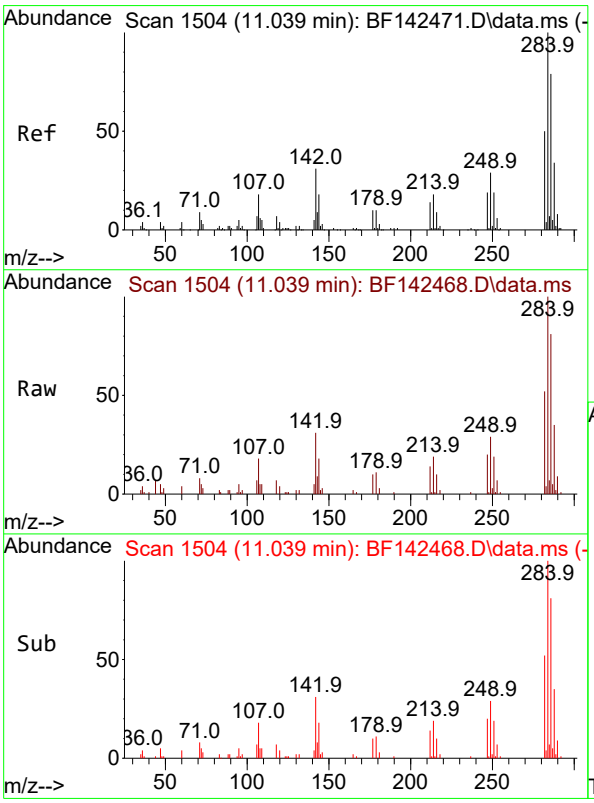
#67
4-Bromophenyl-phenylether
Concen: 5.076 ng
RT: 10.975 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:248 Resp: 20974

Ion	Ratio	Lower	Upper
248	100		
250	99.7	79.0	118.4
141	69.9	58.4	87.6

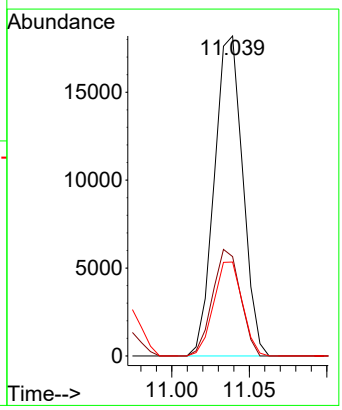


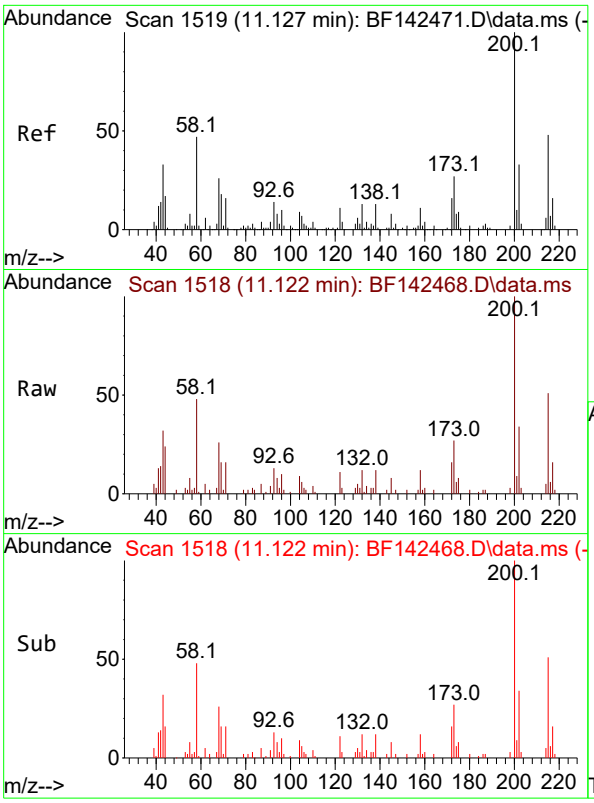


#68
Hexachlorobenzene
Concen: 5.067 ng
RT: 11.039 min Scan# 1504
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:284 Resp: 23159

Ion	Ratio	Lower	Upper
284	100		
142	31.1	24.8	37.2
249	29.4	23.6	35.4



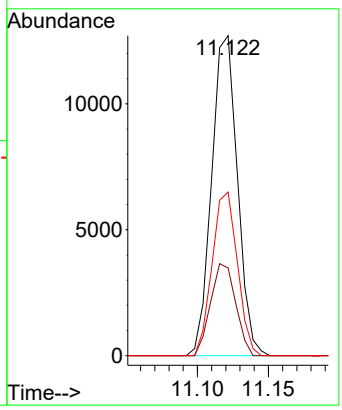


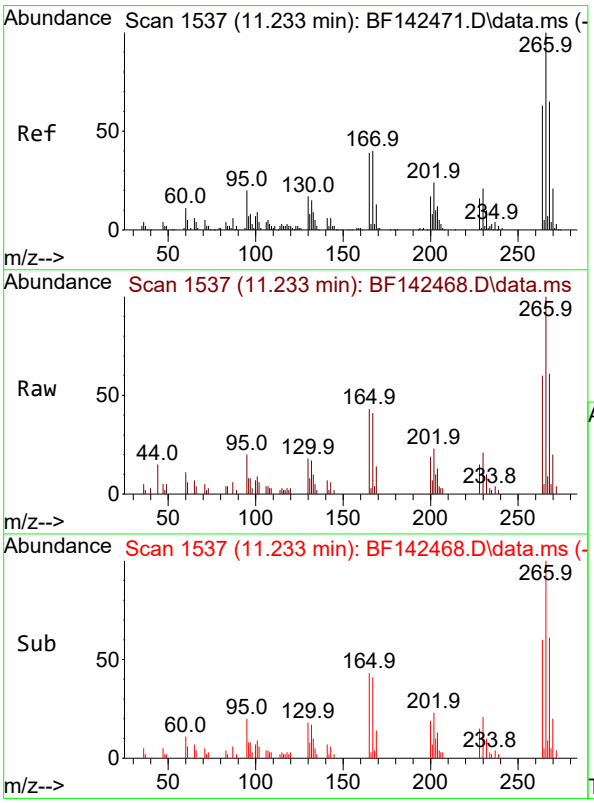
#69
Atrazine
Concen: 5.053 ng
RT: 11.122 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:200 Resp: 16045

Ion	Ratio	Lower	Upper
200	100		
173	27.4	7.4	47.4
215	51.1	28.5	68.5

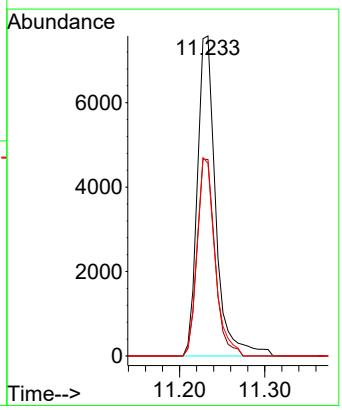


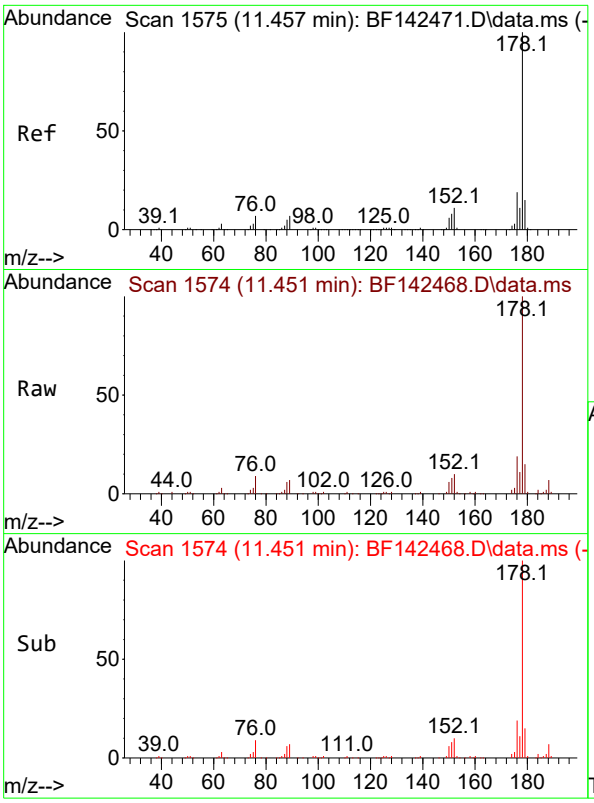


#70
Pentachlorophenol
Concen: 4.401 ng
RT: 11.233 min Scan# 1537
Delta R.T. 0.000 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:266 Resp: 11357

Ion	Ratio	Lower	Upper
266	100		
268	61.4	51.7	77.5
264	60.2	50.4	75.6



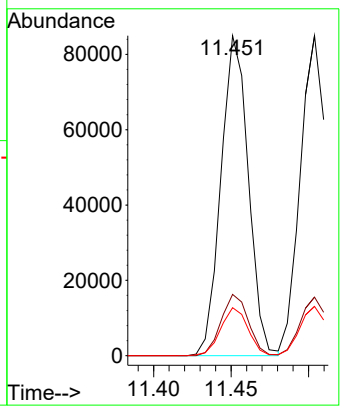


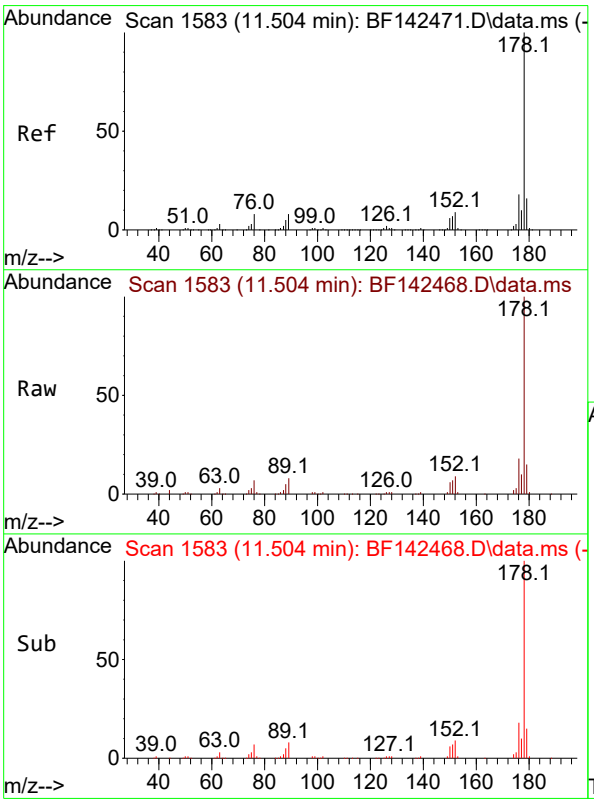
#71
Phenanthrene
Concen: 5.594 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:178 Resp: 104484

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	15.0	12.3	18.5

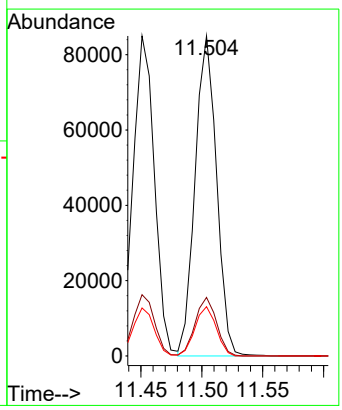


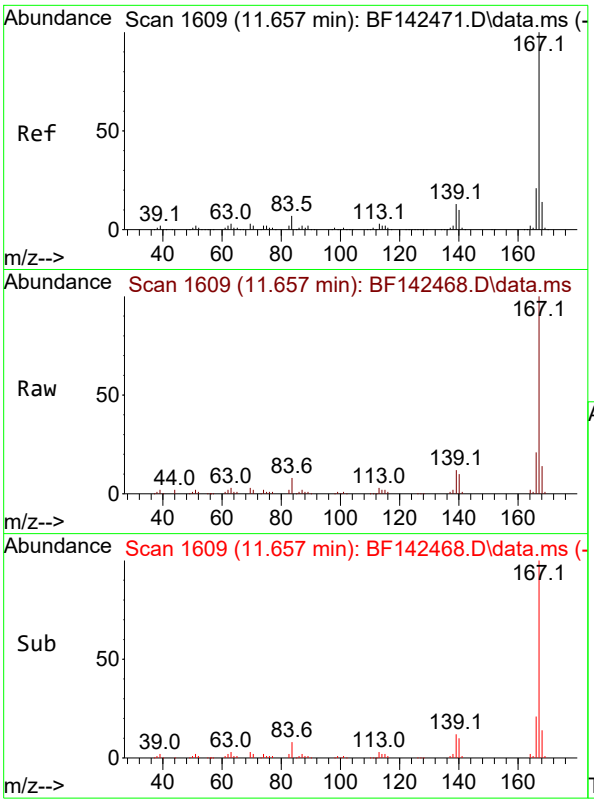


#72
Anthracene
Concen: 5.457 ng
RT: 11.504 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:178 Resp: 104017

Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.6	21.8
179	15.4	12.4	18.6



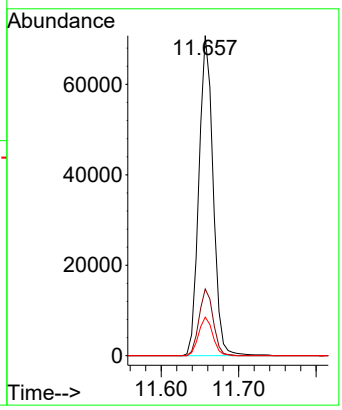


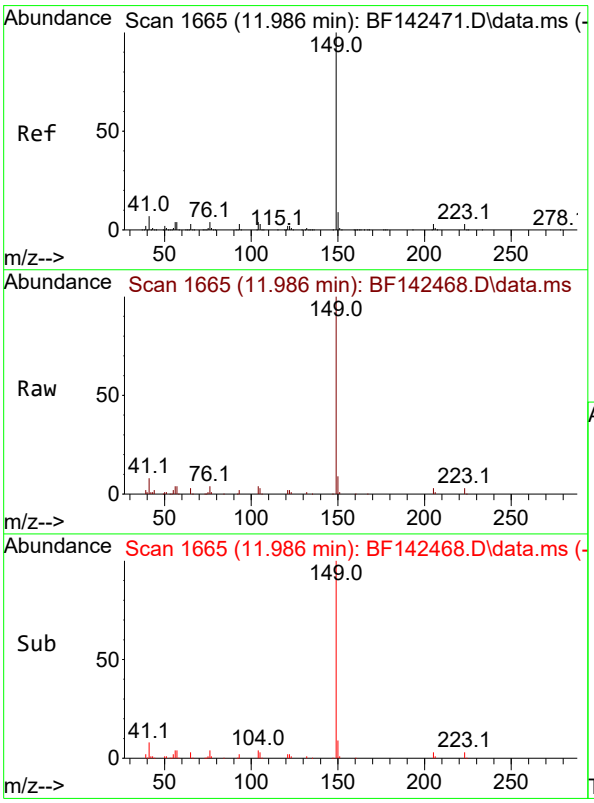
#73
Carbazole
Concen: 5.521 ng
RT: 11.657 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:167 Resp: 89967

Ion	Ratio	Lower	Upper
167	100		
166	20.8	16.9	25.3
139	12.1	10.2	15.4

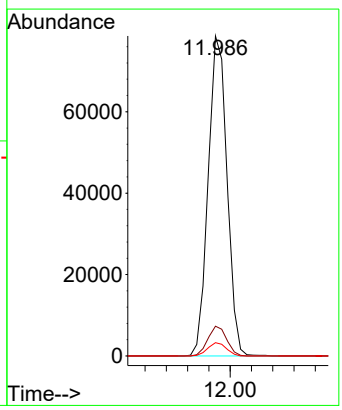


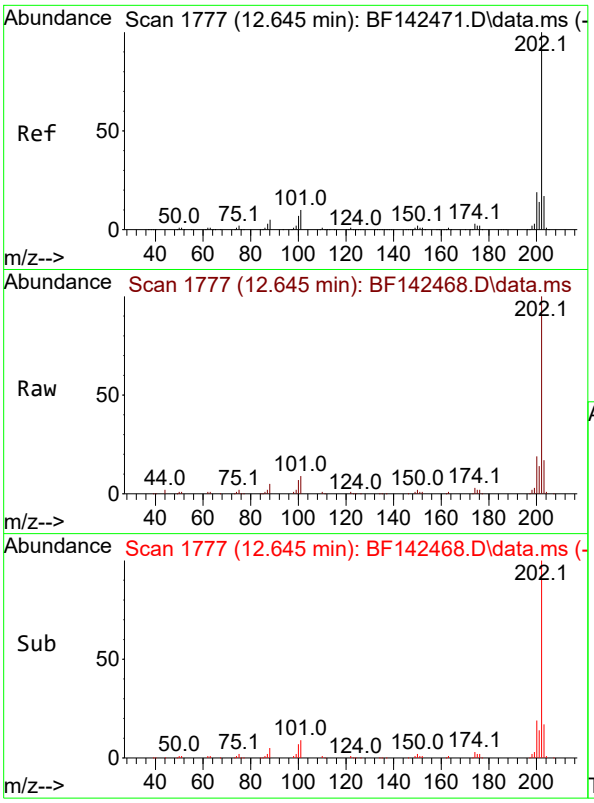


#74
Di-n-butylphthalate
Concen: 5.426 ng
RT: 11.986 min Scan# 1665
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:149 Resp: 96777

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.3	10.9
104	4.1	3.6	5.4



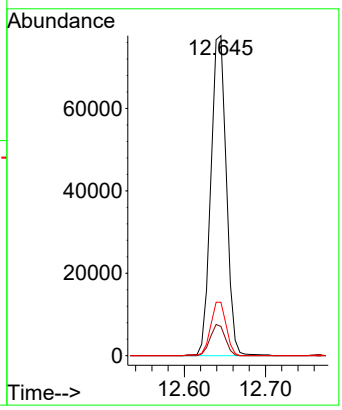


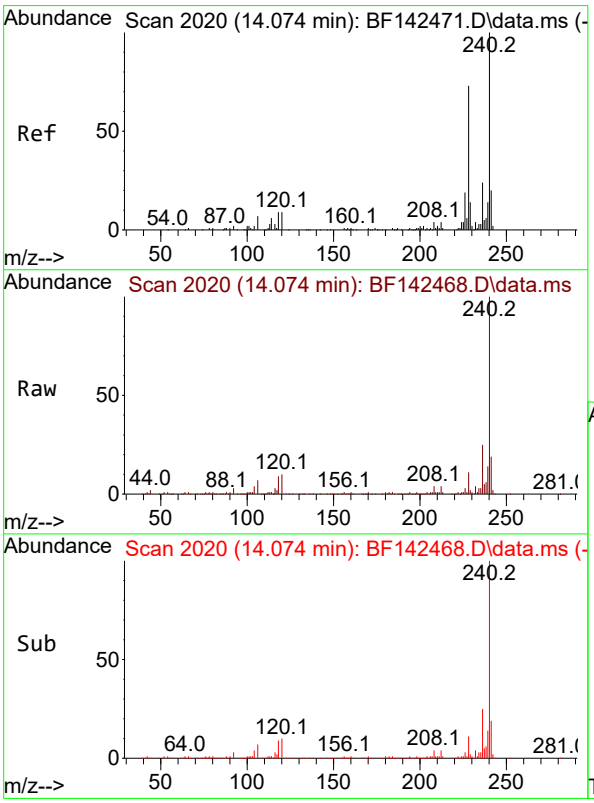
#75
Fluoranthene
Concen: 5.890 ng
RT: 12.645 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:202 Resp: 102797

Ion	Ratio	Lower	Upper
202	100		
101	9.2	0.0	29.6
203	16.7	0.0	37.2

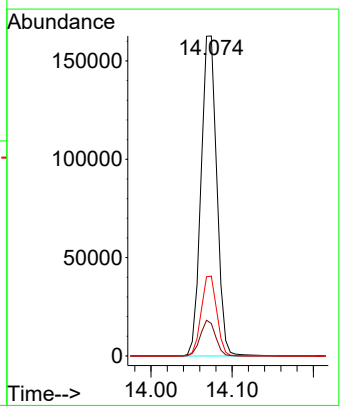


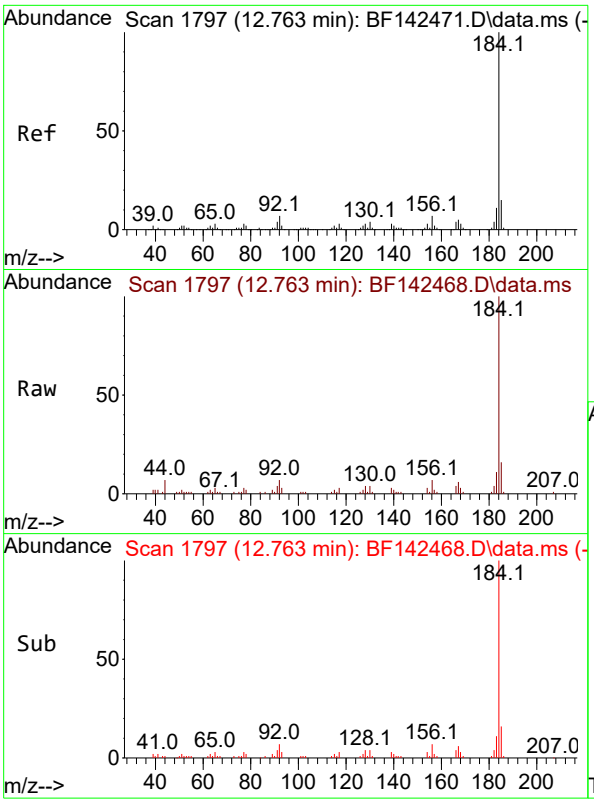


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.074 min Scan# 2020
Delta R.T. 0.000 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:240 Resp: 218524

Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.5	11.3
236	25.0	19.6	29.4



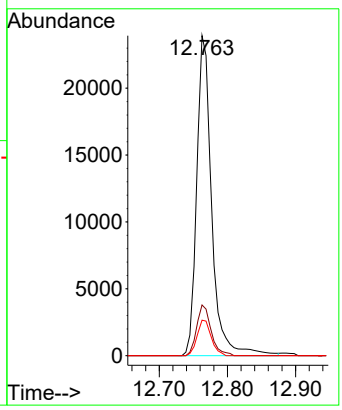


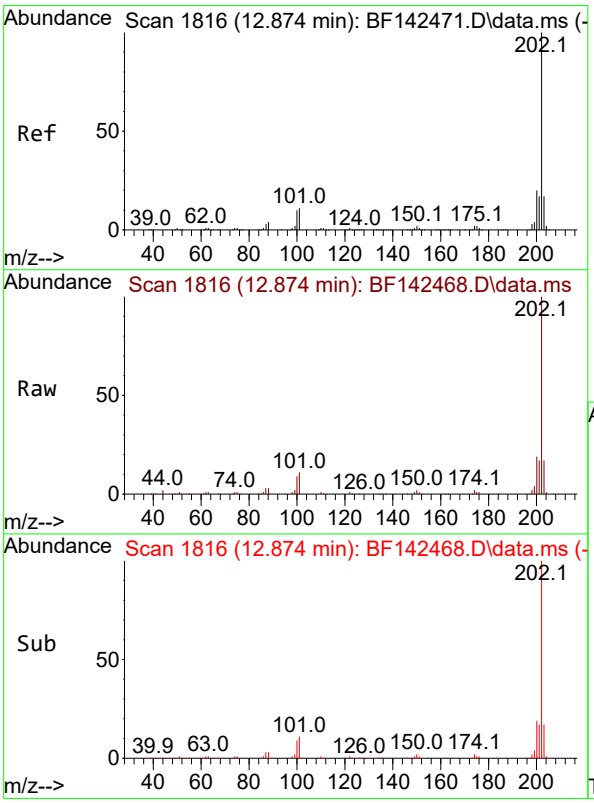
#77
Benzidine
Concen: 4.499 ng
RT: 12.763 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:184 Resp: 36585

Ion	Ratio	Lower	Upper
184	100		
185	15.9	11.6	17.4
183	11.1	9.0	13.4

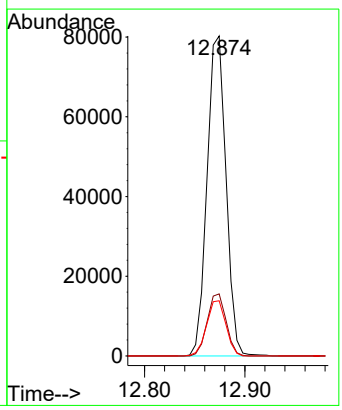


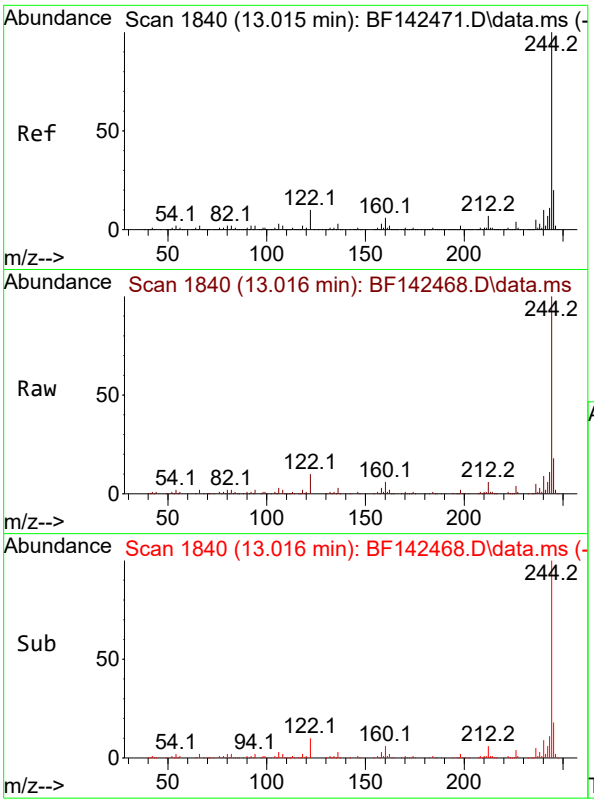


#78
Pyrene
Concen: 5.170 ng
RT: 12.874 min Scan# 1816
Delta R.T. 0.000 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:202 Resp: 105394

Ion	Ratio	Lower	Upper
202	100		
200	19.4	16.1	24.1
203	17.2	13.9	20.9



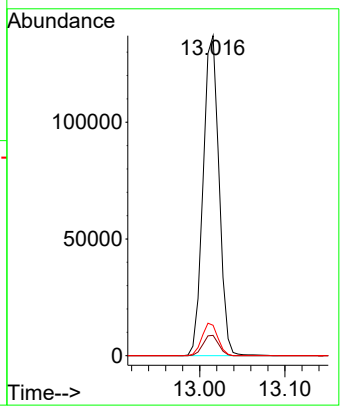


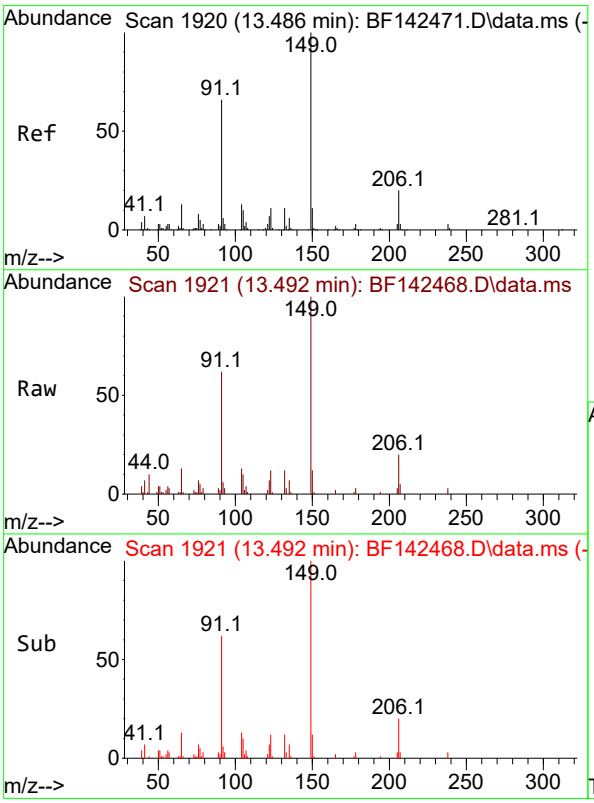
#79
Terphenyl-d14
Concen: 11.096 ng
RT: 13.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:244 Resp: 177430

Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.3	7.9
122	9.5	8.2	12.2

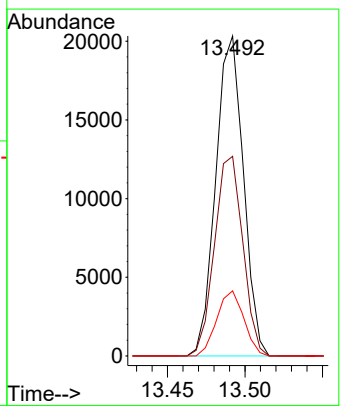


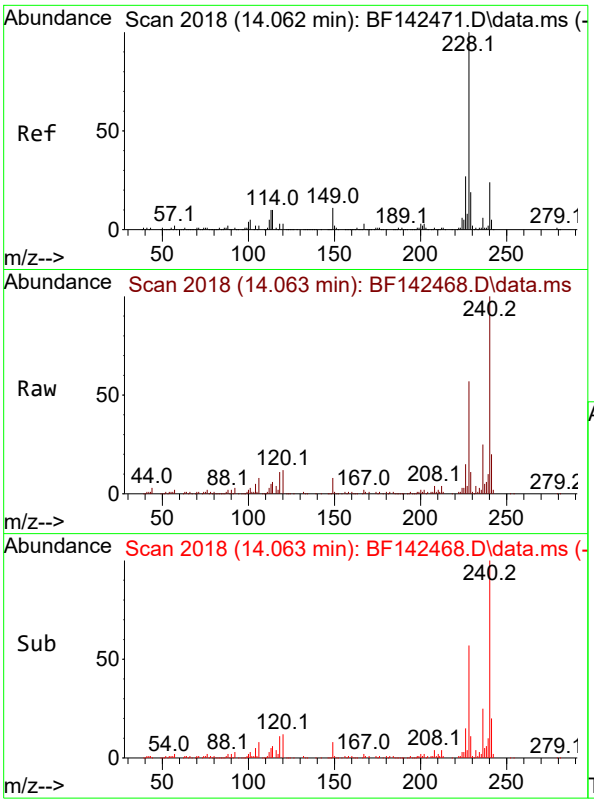


#80
Butylbenzylphthalate
Concen: 4.483 ng
RT: 13.492 min Scan# 1921
Delta R.T. 0.000 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:149 Resp: 25251

Ion	Ratio	Lower	Upper
149	100		
91	62.4	52.9	79.3
206	20.3	16.2	24.2



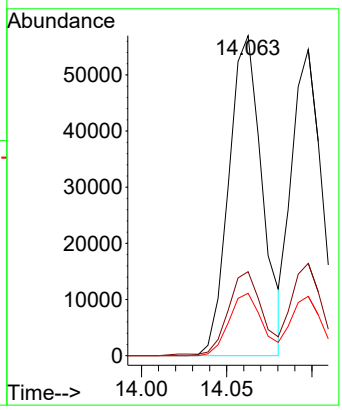


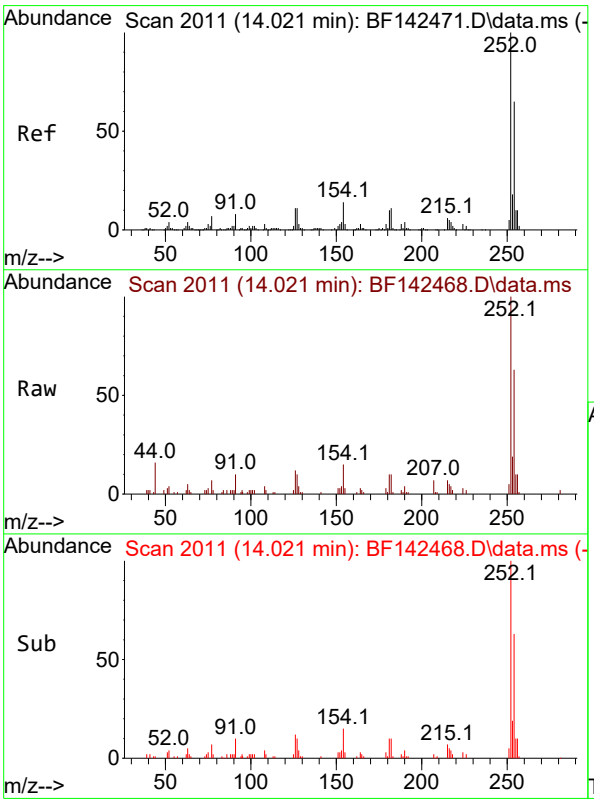
#81
Benzo(a)anthracene
Concen: 5.332 ng
RT: 14.063 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:228 Resp: 77800

Ion	Ratio	Lower	Upper
228	100		
226	26.2	21.2	31.8
229	19.5	15.5	23.3

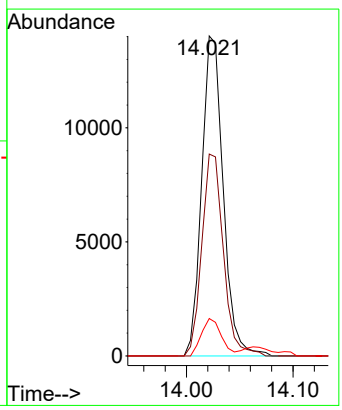


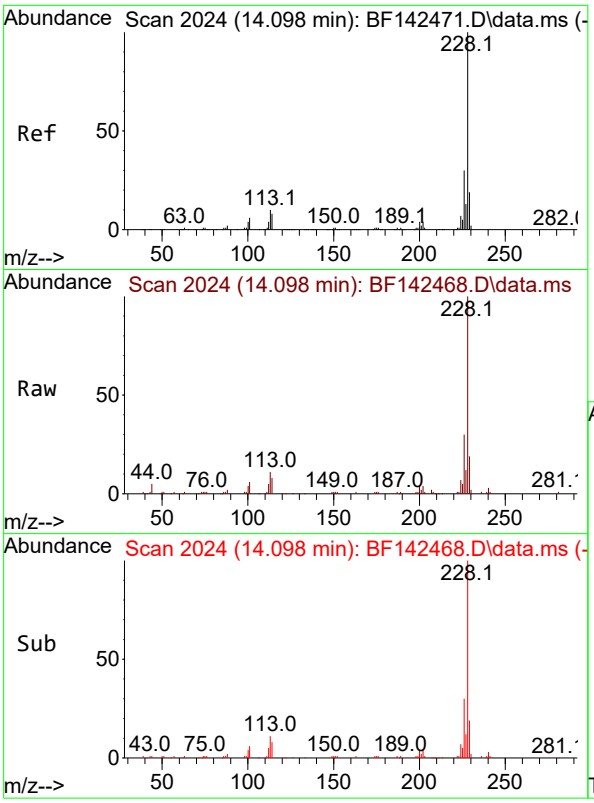


#82
3,3'-Dichlorobenzidine
Concen: 4.445 ng
RT: 14.021 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:252 Resp: 19673

Ion	Ratio	Lower	Upper
252	100		
254	63.1	52.0	78.0
126	11.7	8.9	13.3



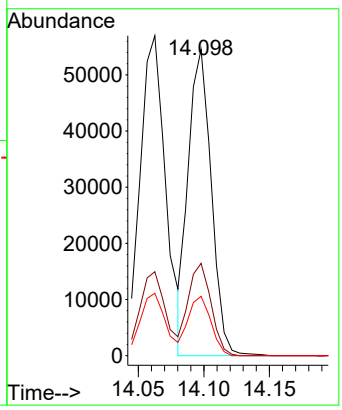


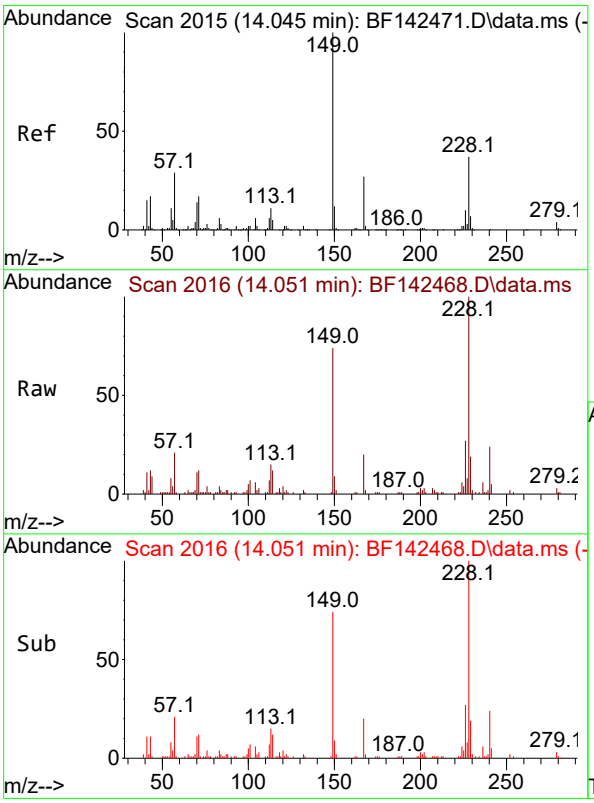
#83
Chrysene
Concen: 5.092 ng
RT: 14.098 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:228 Resp: 66761

Ion	Ratio	Lower	Upper
228	100		
226	30.2	23.8	35.6
229	19.4	15.4	23.2

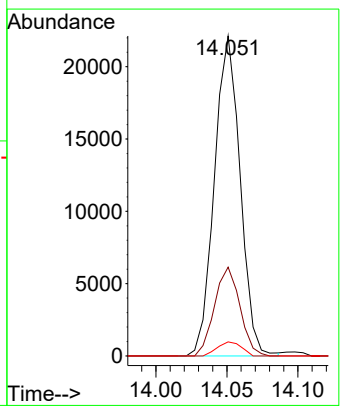


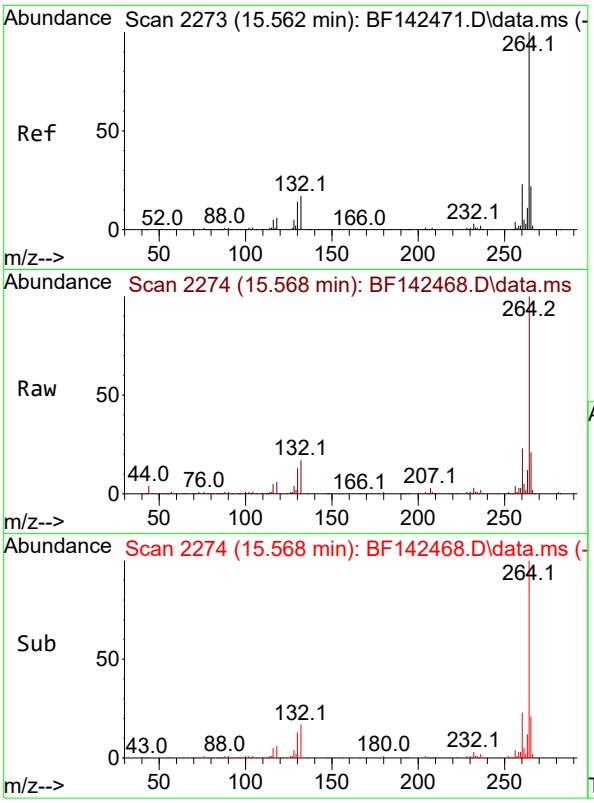


#84
Bis(2-ethylhexyl)phthalate
Concen: 3.864 ng
RT: 14.051 min Scan# 2016
Delta R.T. 0.000 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:149 Resp: 27864

Ion	Ratio	Lower	Upper
149	100		
167	27.8	21.5	32.3
279	4.4	3.2	4.8



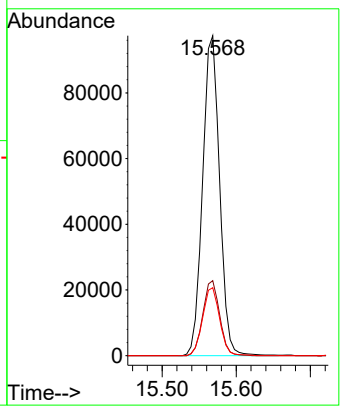


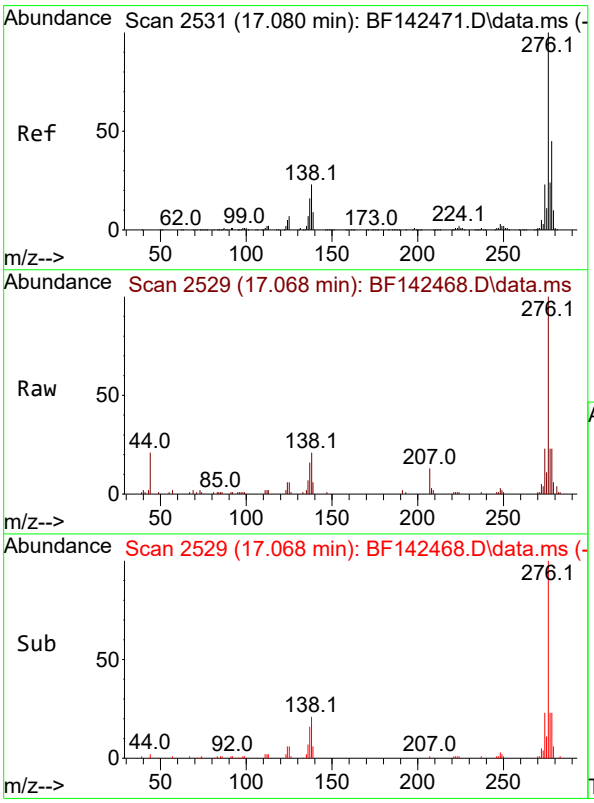
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.568 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:264 Resp: 154887

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.6	28.0
265	21.3	17.7	26.5

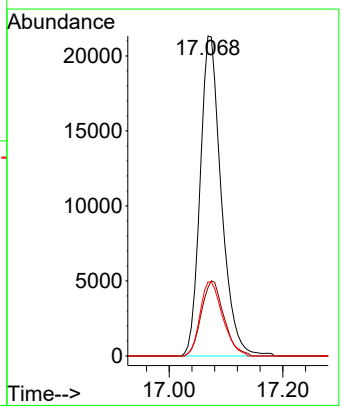


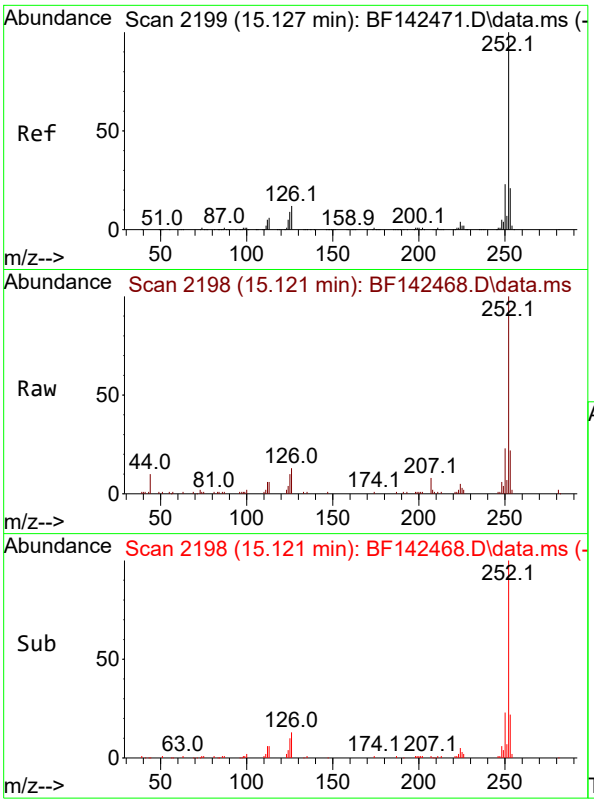


#87
Indeno(1,2,3-cd)pyrene
Concen: 4.733 ng
RT: 17.068 min Scan# 2529
Delta R.T. -0.023 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:276 Resp: 55034

Ion	Ratio	Lower	Upper
276	100		
138	25.1	19.9	29.9
277	24.8	20.2	30.2



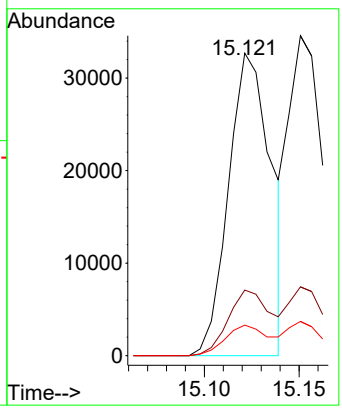


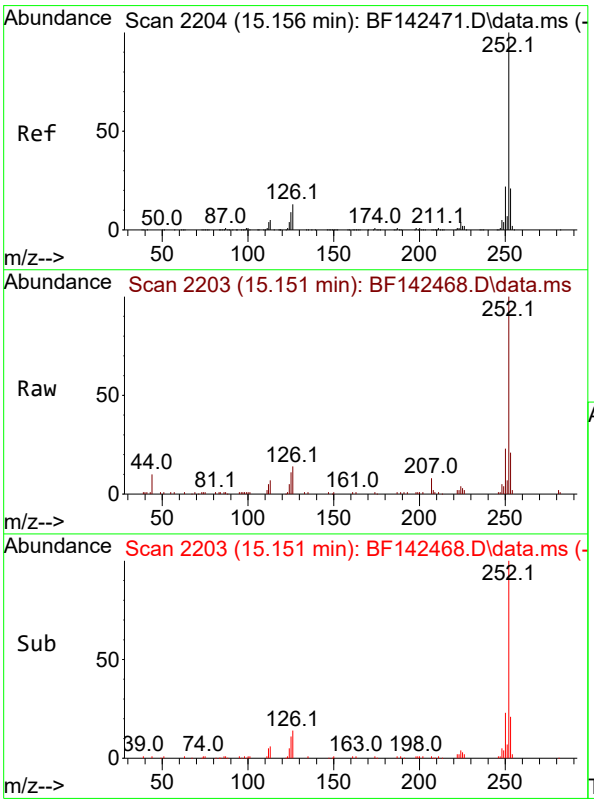
#88
Benzo(b)fluoranthene
Concen: 5.565 ng
RT: 15.121 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 51014

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.0	25.4
125	10.1	7.4	11.0

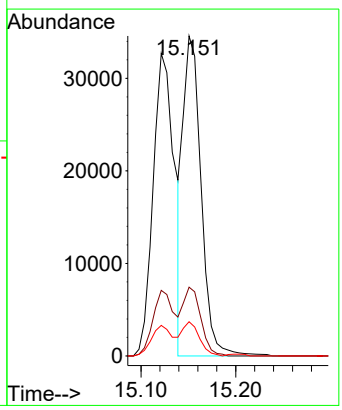


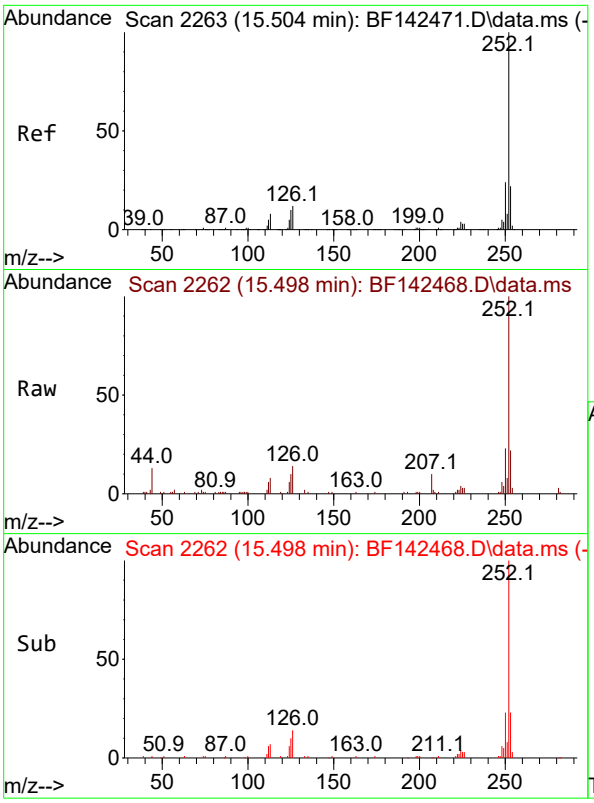


#89
Benzo(k)fluoranthene
Concen: 5.371 ng
RT: 15.151 min Scan# 2203
Delta R.T. -0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:252 Resp: 46114

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.0	25.4
125	10.7	7.3	10.9



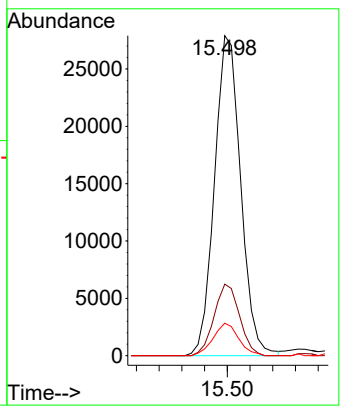


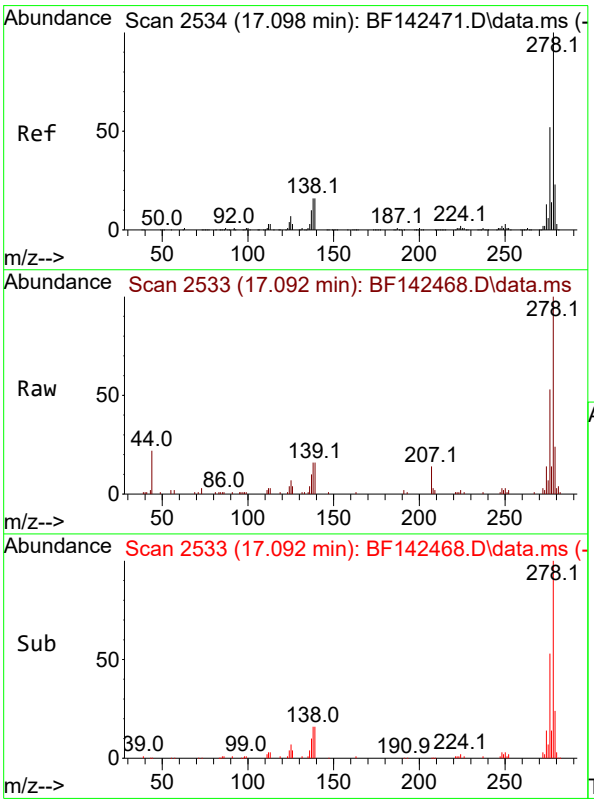
#90
Benzo(a)pyrene
Concen: 5.172 ng
RT: 15.498 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 44694

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.4	26.0
125	10.1	7.9	11.9

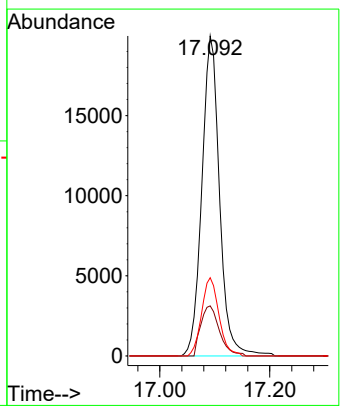


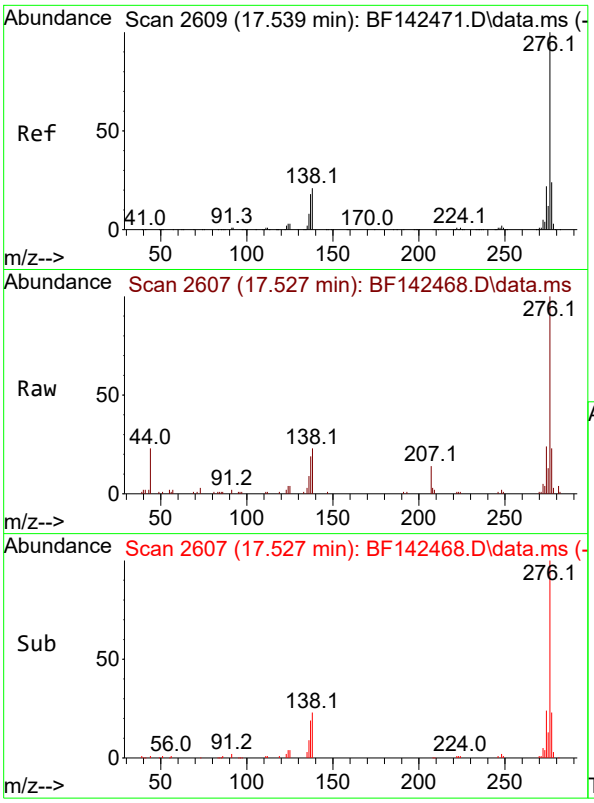


#91
Dibenzo(a,h)anthracene
Concen: 4.731 ng
RT: 17.092 min Scan# 2533
Delta R.T. -0.023 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Tgt Ion:278 Resp: 44618

Ion	Ratio	Lower	Upper
278	100		
139	15.6	12.8	19.2
279	24.4	18.6	28.0



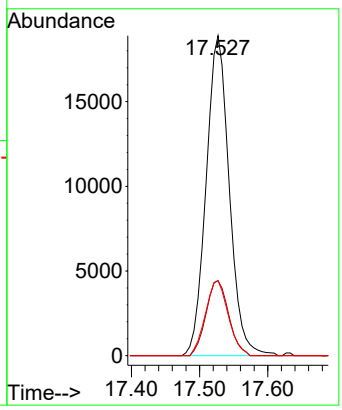


#92
Benzo(g,h,i)perylene
Concen: 4.737 ng
RT: 17.527 min Scan# 2
Delta R.T. -0.029 min
Lab File: BF142468.D
Acq: 20 May 2025 12:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:276 Resp: 44684

Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.2	28.8
138	23.5	16.8	25.2



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142469.D
Acq On : 20 May 2025 13:07
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: May 20 16:55:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.898	152	93167	20.000	ng		0.00
21) Naphthalene-d8	8.187	136	365488	20.000	ng		0.00
39) Acenaphthene-d10	9.939	164	205654	20.000	ng		0.00
64) Phenanthrene-d10	11.428	188	357871	20.000	ng		0.00
76) Chrysene-d12	14.069	240	197144	20.000	ng		0.00
86) Perylene-d12	15.563	264	160066	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	113098	20.452	ng		-0.01
7) Phenol-d6	6.516	99	134953	20.273	ng		-0.02
23) Nitrobenzene-d5	7.457	82	133256	19.881	ng		-0.02
42) 2,4,6-Tribromophenol	10.728	330	46280	20.276	ng		-0.01
45) 2-Fluorobiphenyl	9.257	172	332871	21.719	ng		-0.01
79) Terphenyl-d14	13.010	244	311785	21.612	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.669	88	21412	9.676	ng		99
3) Pyridine	3.440	79	53586	9.509	ng		97
4) n-Nitrosodimethylamine	3.369	42	27624	9.441	ng	#	97
6) Aniline	6.557	93	87993	9.831	ng		99
8) 2-Chlorophenol	6.681	128	60216	9.997	ng		100
9) Benzaldehyde	6.446	77	45431	11.347	ng		98
10) Phenol	6.528	94	75527	10.083	ng		97
11) bis(2-Chloroethyl)ether	6.628	93	53797	9.978	ng		99
12) 1,3-Dichlorobenzene	6.840	146	68483	10.189	ng		98
13) 1,4-Dichlorobenzene	6.916	146	68774	10.158	ng		98
14) 1,2-Dichlorobenzene	7.069	146	65441	10.102	ng		99
15) Benzyl Alcohol	7.034	79	47712	9.699	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.175	45	92128	10.175	ng		100
17) 2-Methylphenol	7.140	107	46205	9.825	ng		98
18) Hexachloroethane	7.416	117	23425	9.909	ng		98
19) n-Nitroso-di-n-propyla...	7.298	70	40995	9.937	ng		96
20) 3+4-Methylphenols	7.293	107	61444	10.203	ng	#	86
22) Acetophenone	7.304	105	82804	10.234	ng		98
24) Nitrobenzene	7.475	77	59873	9.904	ng		98
25) Isophorone	7.716	82	112365	10.027	ng		98
26) 2-Nitrophenol	7.798	139	31085	9.623	ng		96
27) 2,4-Dimethylphenol	7.828	122	57543	10.102	ng		99
28) bis(2-Chloroethoxy)met...	7.928	93	71943	10.277	ng		97
29) 2,4-Dichlorophenol	8.034	162	51500	9.941	ng		99
30) 1,2,4-Trichlorobenzene	8.122	180	57228	10.179	ng		97
31) Naphthalene	8.204	128	186515	10.364	ng		100
32) Benzoic acid	7.893	122	27956m	8.062	ng		
33) 4-Chloroaniline	8.251	127	74805	10.258	ng		98
34) Hexachlorobutadiene	8.322	225	35161	10.016	ng		99
35) Caprolactam	8.587	113	13862	9.527	ng		99
36) 4-Chloro-3-methylphenol	8.722	107	52919	9.968	ng		98
37) 2-Methylnaphthalene	8.892	142	116592	10.298	ng		98
38) 1-Methylnaphthalene	8.992	142	122130	10.429	ng		99
40) 1,2,4,5-Tetrachloroben...	9.063	216	59609	10.097	ng		99
41) Hexachlorocyclopentadiene	9.051	237	36016	9.044	ng		97
43) 2,4,6-Trichlorophenol	9.169	196	38354	9.635	ng		97

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142469.D
Acq On : 20 May 2025 13:07
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: May 20 16:55:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	42272	10.069	ng		96
46) 1,1'-Biphenyl	9.357	154	165063	10.346	ng		99
47) 2-Chloronaphthalene	9.387	162	120339	10.208	ng		96
48) 2-Nitroaniline	9.475	65	32722	9.604	ng		98
49) Acenaphthylene	9.798	152	203767	10.237	ng		99
50) Dimethylphthalate	9.651	163	137804	10.155	ng		100
51) 2,6-Dinitrotoluene	9.716	165	29112	9.940	ng		98
52) Acenaphthene	9.975	154	125669	10.339	ng		96
53) 3-Nitroaniline	9.887	138	31820	9.947	ng		99
54) 2,4-Dinitrophenol	9.992	184	11352	7.502	ng	#	82
55) Dibenzofuran	10.145	168	181558	10.380	ng		98
56) 4-Nitrophenol	10.034	139	22320	9.456	ng		92
57) 2,4-Dinitrotoluene	10.116	165	37749	9.869	ng		97
58) Fluorene	10.486	166	143883	10.648	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.257	232	34548	9.857	ng		99
60) Diethylphthalate	10.357	149	134662	10.161	ng		99
61) 4-Chlorophenyl-phenyle...	10.481	204	69739	10.506	ng		97
62) 4-Nitroaniline	10.492	138	29122	10.038	ng		98
63) Azobenzene	10.639	77	122806	10.317	ng		99
65) 4,6-Dinitro-2-methylph...	10.522	198	16782	8.403	ng		94
66) n-Nitrosodiphenylamine	10.592	169	121959	9.961	ng		100
67) 4-Bromophenyl-phenylether	10.969	248	42057	9.939	ng		96
68) Hexachlorobenzene	11.034	284	47773	10.207	ng		98
69) Atrazine	11.116	200	31184	9.591	ng		98
70) Pentachlorophenol	11.228	266	24115	9.126	ng		99
71) Phenanthrene	11.451	178	195667	10.231	ng		100
72) Anthracene	11.504	178	202509	10.375	ng		99
73) Carbazole	11.657	167	173217	10.381	ng		100
74) Di-n-butylphthalate	11.986	149	185880	10.177	ng		100
75) Fluoranthene	12.639	202	193456	10.825	ng		99
77) Benzidine	12.763	184	77091	10.508	ng		99
78) Pyrene	12.869	202	193842	10.540	ng		100
80) Butylbenzylphthalate	13.486	149	44682	8.793	ng		97
81) Benzo(a)anthracene	14.057	228	126886	9.639	ng		99
82) 3,3'-Dichlorobenzidine	14.022	252	35845	8.977	ng		99
83) Chrysene	14.092	228	118674	10.032	ng		99
84) Bis(2-ethylhexyl)phtha...	14.045	149	54056	8.310	ng		98
85) Di-n-octyl phthalate	14.663	149	94445	7.425	ng		100
87) Indeno(1,2,3-cd)pyrene	17.068	276	119642	9.956	ng		99
88) Benzo(b)fluoranthene	15.121	252	88432	9.335	ng		98
89) Benzo(k)fluoranthene	15.151	252	93315	10.517	ng		99
90) Benzo(a)pyrene	15.498	252	86477	9.684	ng		100
91) Dibenzo(a,h)anthracene	17.086	278	98308	10.087	ng		98
92) Benzo(g,h,i)perylene	17.521	276	97640	10.016	ng		99

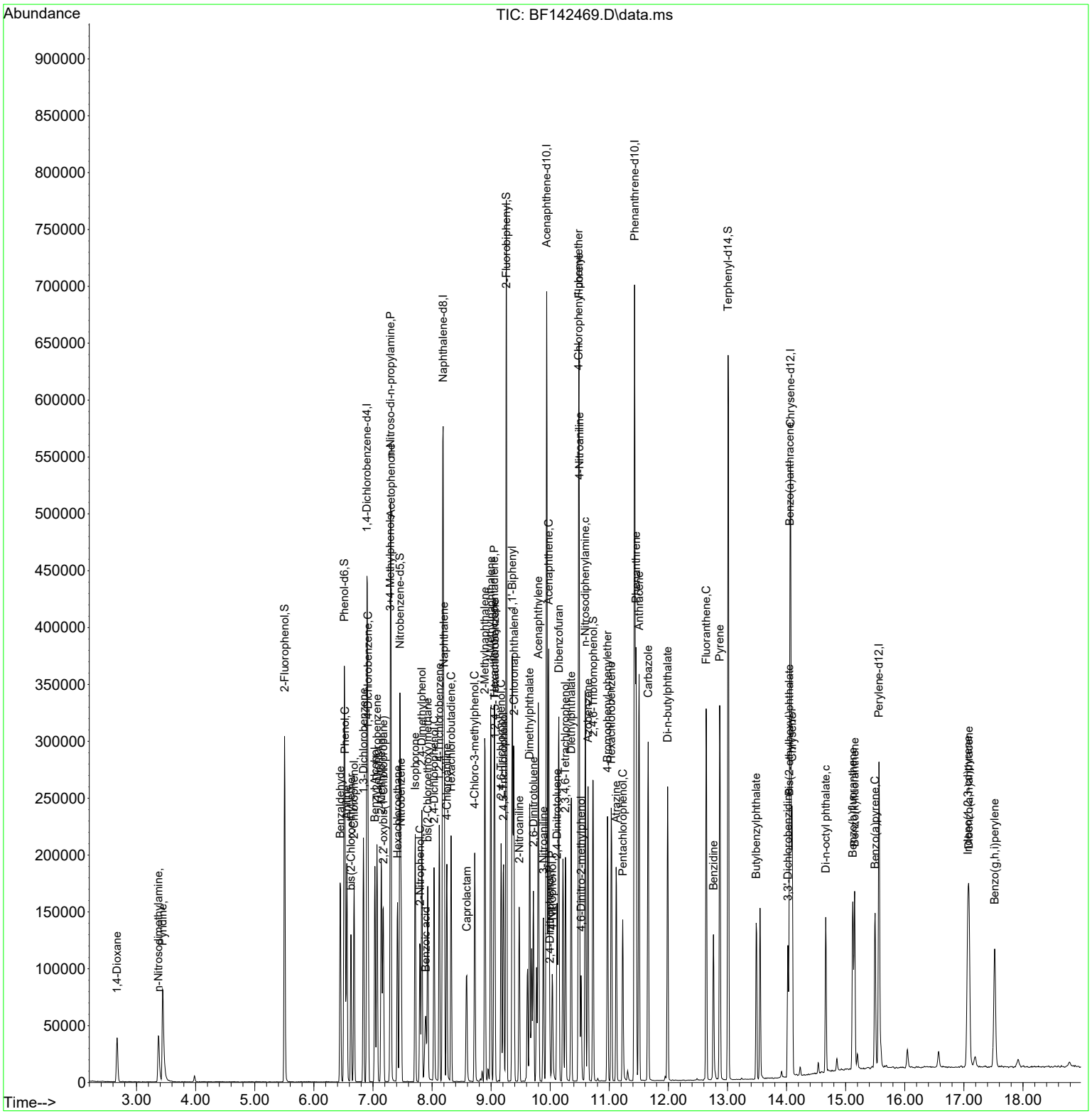
(#) = qualifier out of range (m) = manual integration (+) = signals summed

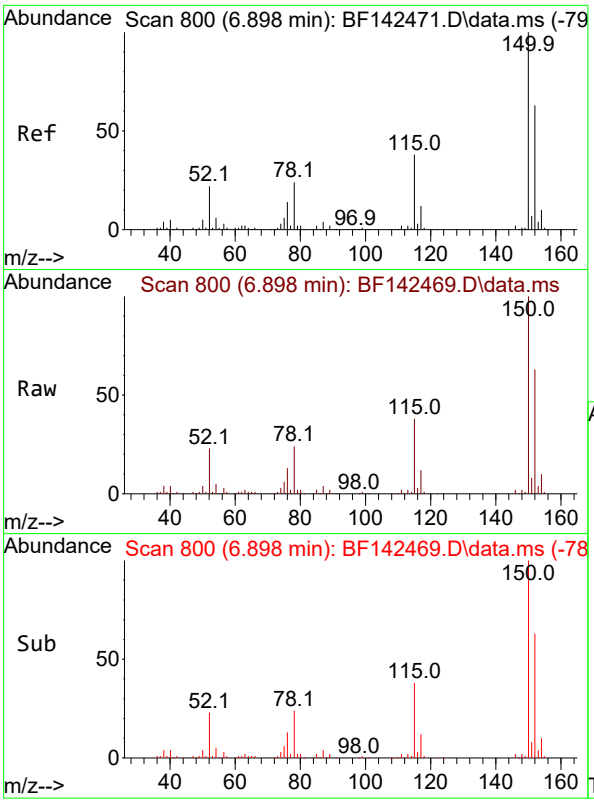
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142469.D
Acq On : 20 May 2025 13:07
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: May 20 16:55:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



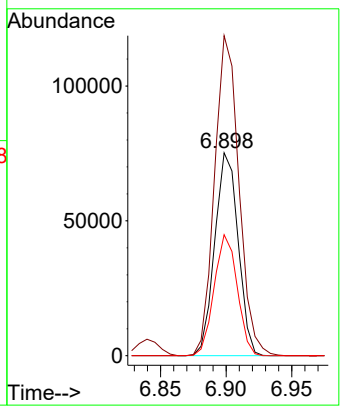


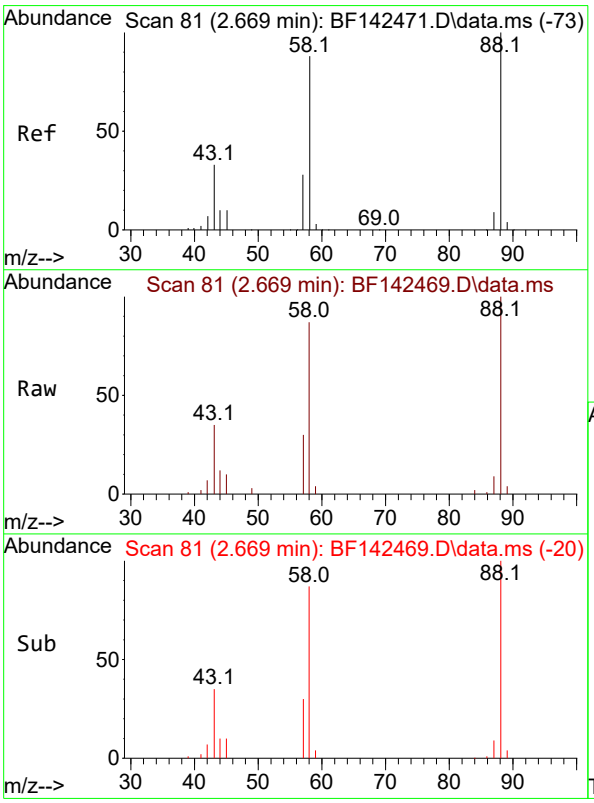
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 93167

Ion	Ratio	Lower	Upper
152	100		
150	157.7	128.2	192.4
115	59.6	48.3	72.5

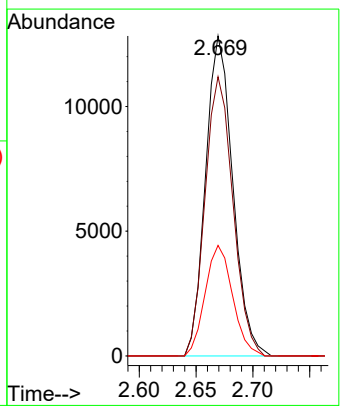


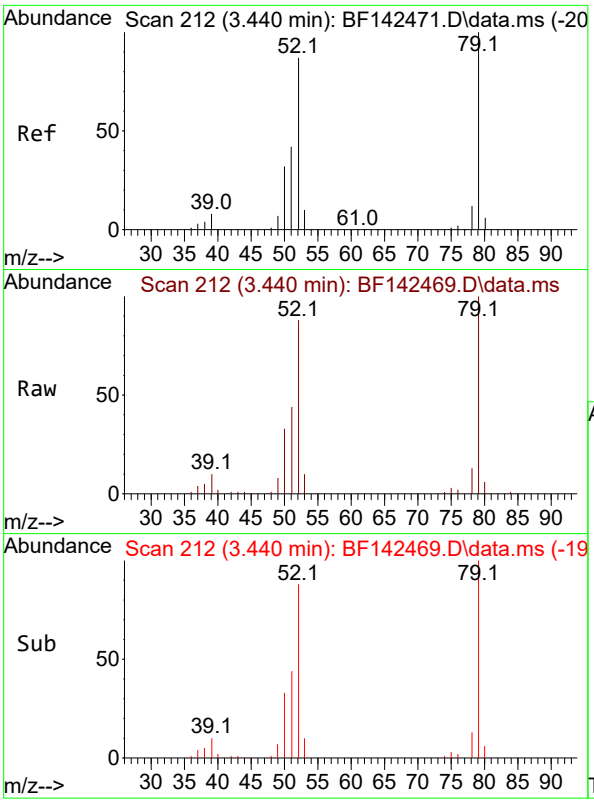


#2
1,4-Dioxane
Concen: 9.676 ng
RT: 2.669 min Scan# 81
Delta R.T. 0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion: 88 Resp: 21412

Ion	Ratio	Lower	Upper
88	100		
58	89.3	70.8	106.2
43	34.8	26.6	40.0



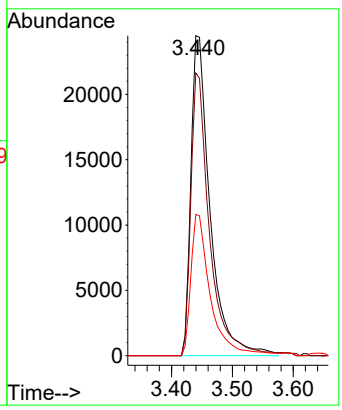


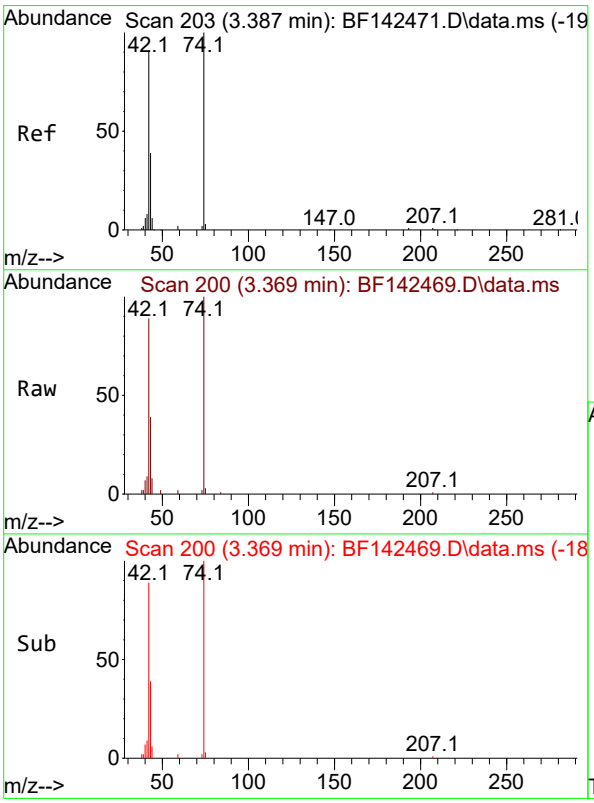
#3
Pyridine
Concen: 9.509 ng
RT: 3.440 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 53586

Ion	Ratio	Lower	Upper
79	100		
52	88.4	69.2	103.8
51	44.2	33.3	49.9

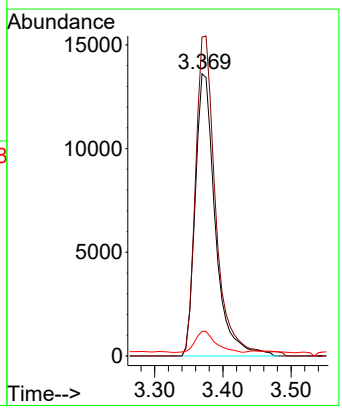


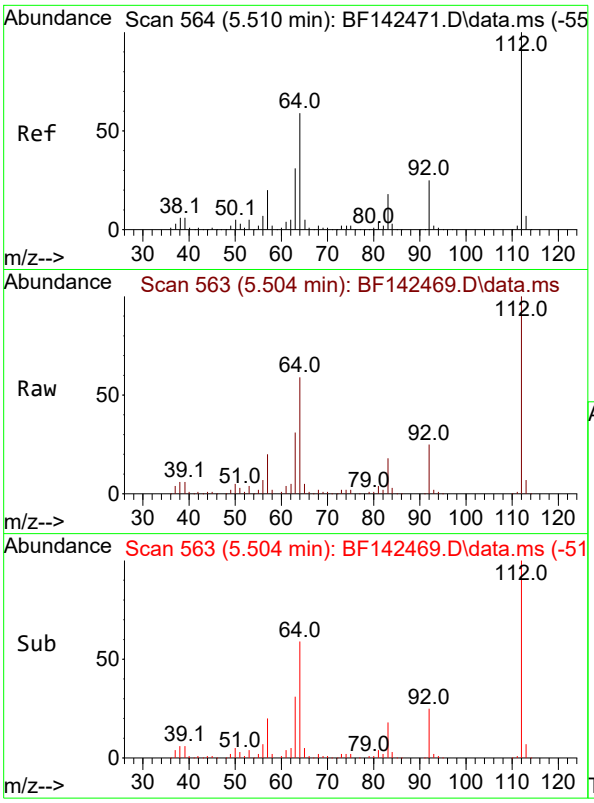


#4
n-Nitrosodimethylamine
Concen: 9.441 ng
RT: 3.369 min Scan# 200
Delta R.T. -0.035 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion: 42 Resp: 27624

Ion	Ratio	Lower	Upper
42	100		
74	113.0	88.2	132.4
44	8.8	5.4	8.2#



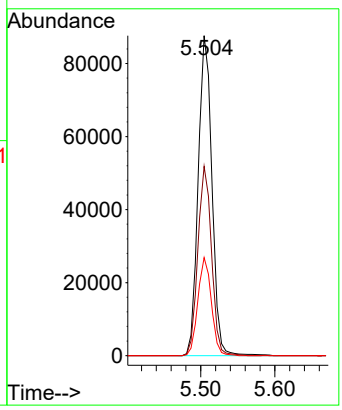


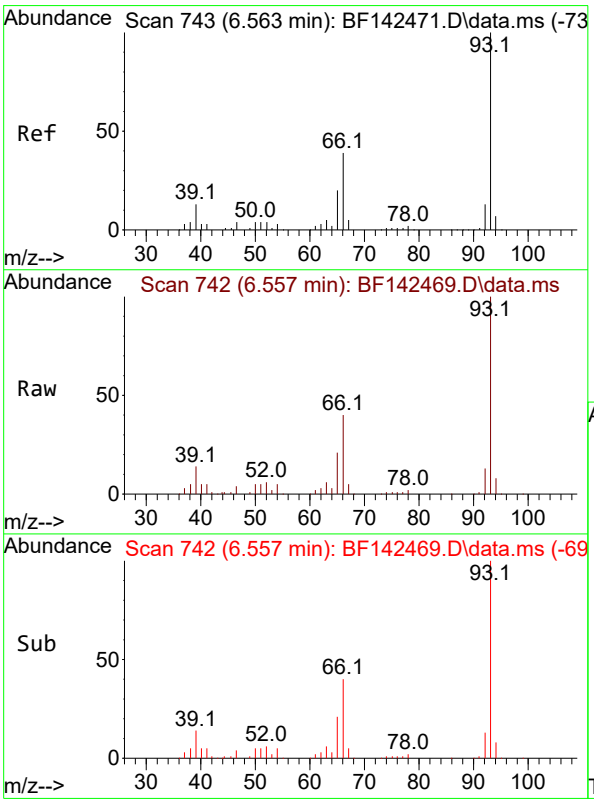
#5
2-Fluorophenol
Concen: 20.452 ng
RT: 5.504 min Scan# 5
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:112 Resp: 113098

Ion	Ratio	Lower	Upper
112	100		
64	59.1	47.5	71.3
63	30.7	24.9	37.3

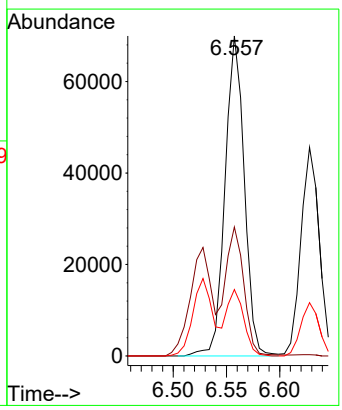


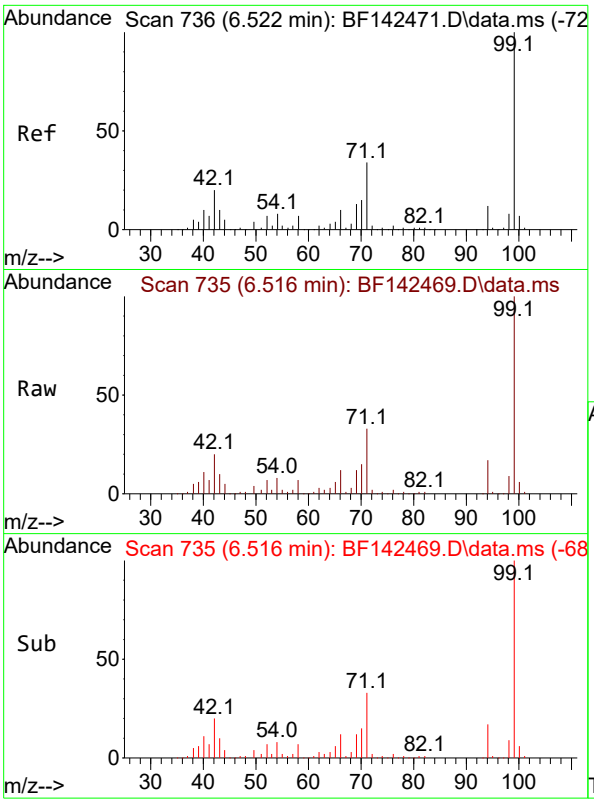


#6
Aniline
Concen: 9.831 ng
RT: 6.557 min Scan# 742
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion: 93 Resp: 87993

Ion	Ratio	Lower	Upper
93	100		
66	40.3	32.0	48.0
65	20.8	16.1	24.1



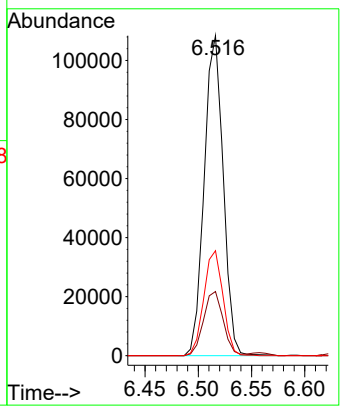


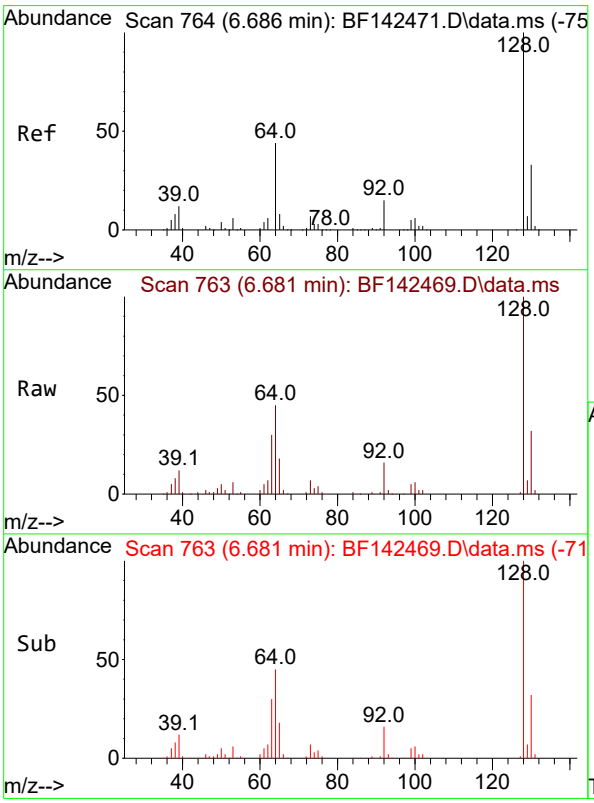
#7
Phenol-d6
Concen: 20.273 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 99 Resp: 134953

Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.2	24.2
71	32.8	27.3	40.9

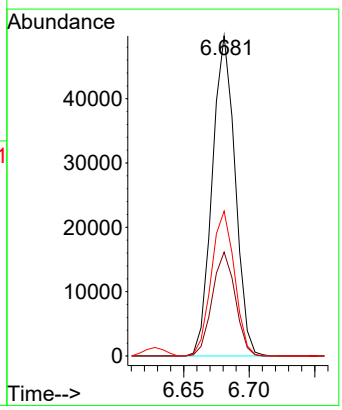


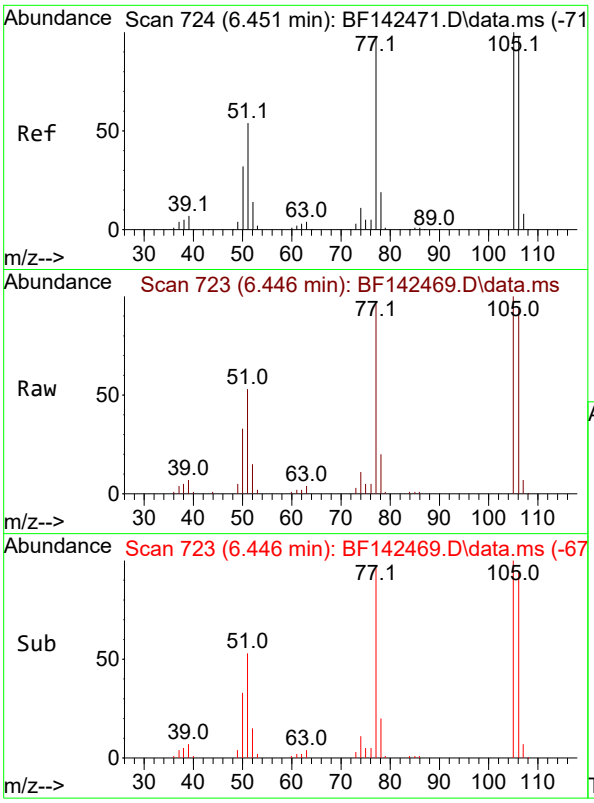


#8
2-Chlorophenol
Concen: 9.997 ng
RT: 6.681 min Scan# 763
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:128 Resp: 60216

Ion	Ratio	Lower	Upper
128	100		
130	32.4	12.6	52.6
64	45.3	25.1	65.1



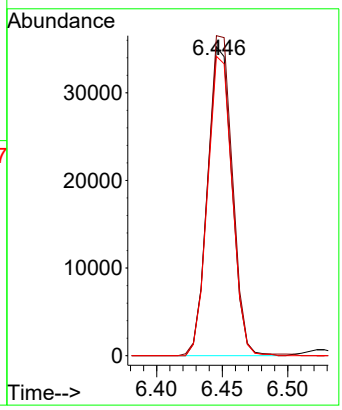


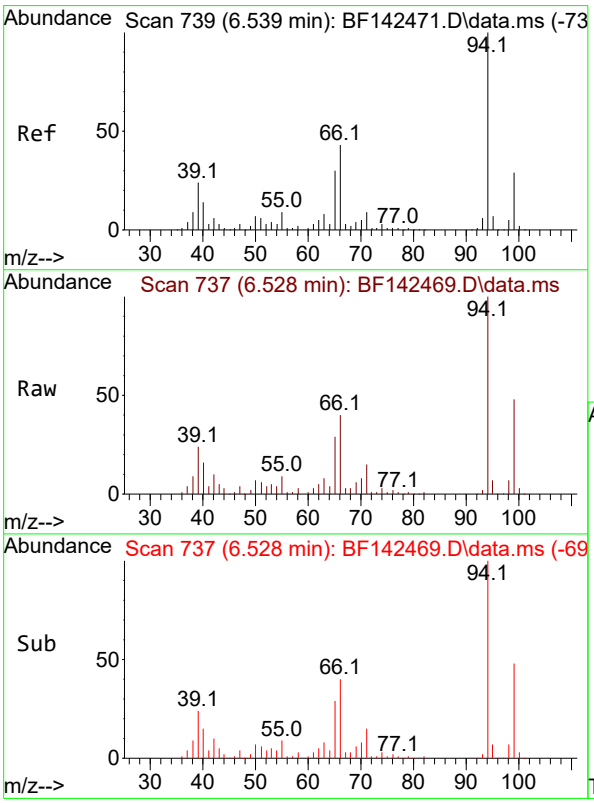
#9
Benzaldehyde
Concen: 11.347 ng
RT: 6.446 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 45431

Ion	Ratio	Lower	Upper
77	100		
105	103.6	82.5	122.5
106	97.0	80.0	120.0

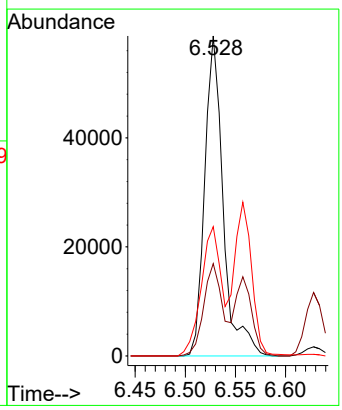


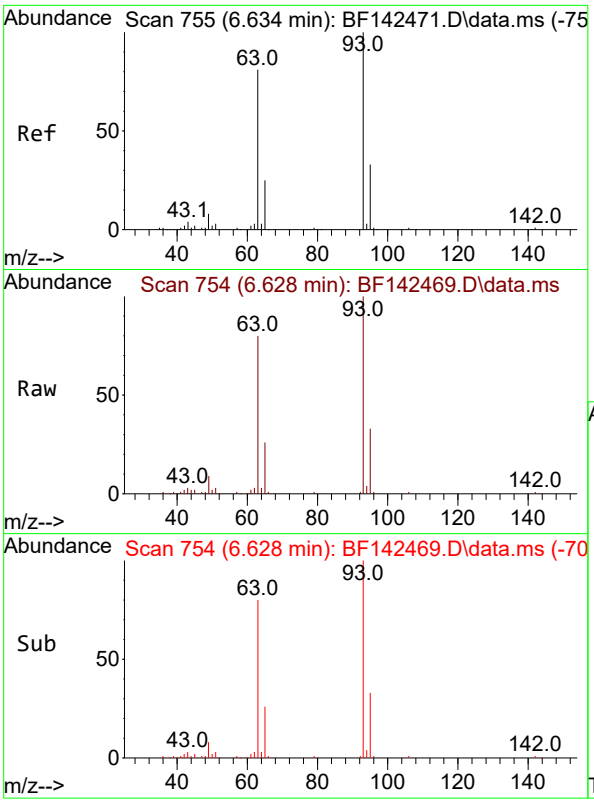


#10
Phenol
Concen: 10.083 ng
RT: 6.528 min Scan# 737
Delta R.T. -0.023 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion: 94 Resp: 75527

Ion	Ratio	Lower	Upper
94	100		
65	28.8	10.3	50.3
66	40.4	22.6	62.6



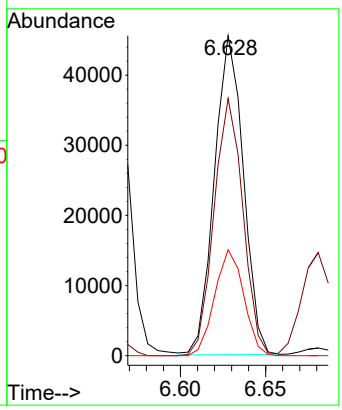


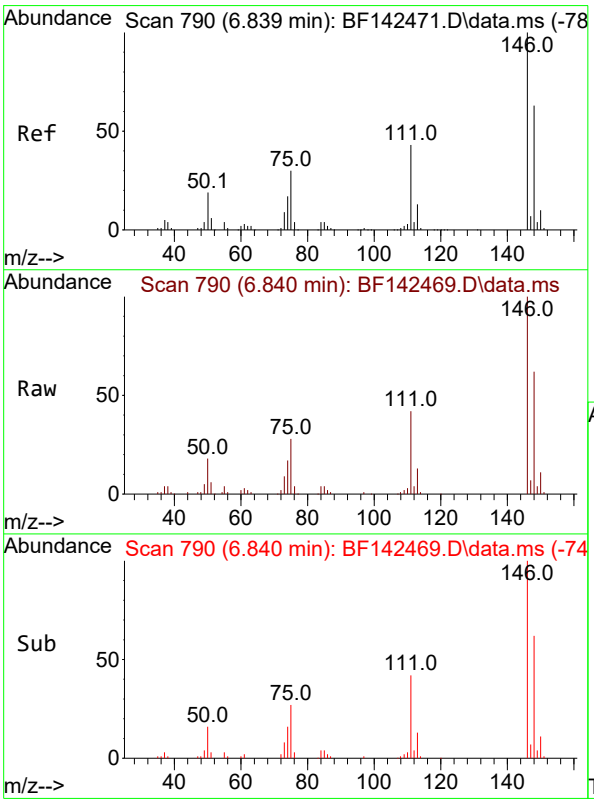
#11
bis(2-Chloroethyl)ether
Concen: 9.978 ng
RT: 6.628 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 93 Resp: 53797

Ion	Ratio	Lower	Upper
93	100		
63	80.3	60.2	100.2
95	33.1	12.3	52.3

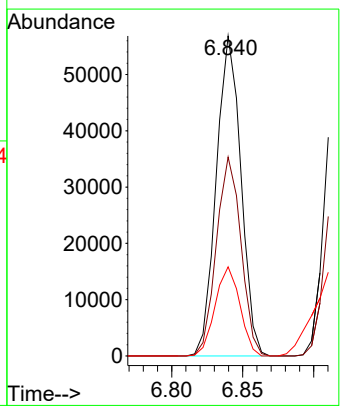


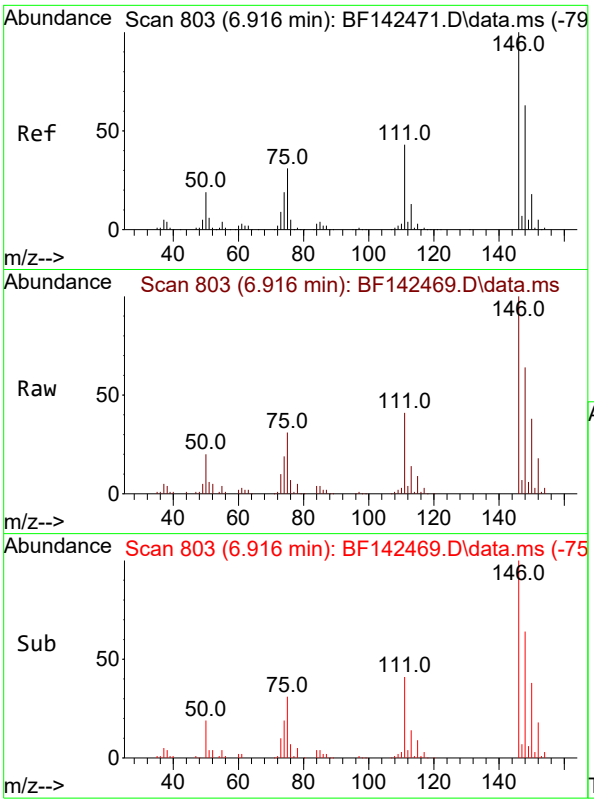


#12
1,3-Dichlorobenzene
Concen: 10.189 ng
RT: 6.840 min Scan# 790
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:146 Resp: 68483

Ion	Ratio	Lower	Upper
146	100		
148	62.2	50.6	75.8
75	27.9	23.8	35.6



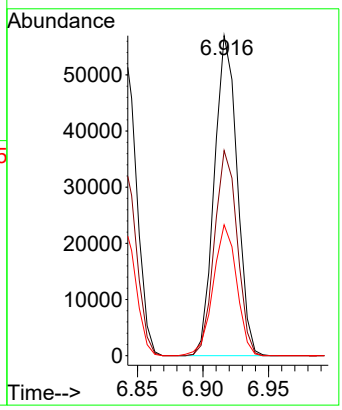


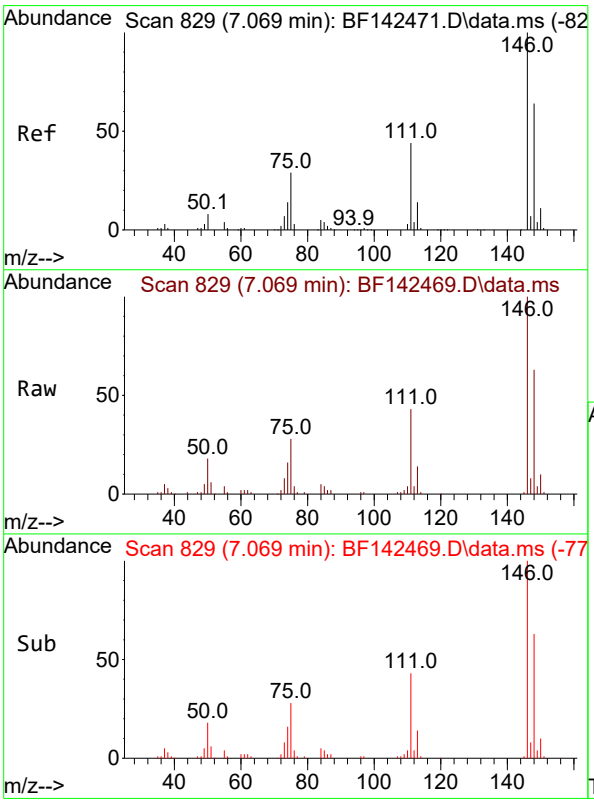
#13
1,4-Dichlorobenzene
Concen: 10.158 ng
RT: 6.916 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:146 Resp: 68774

Ion	Ratio	Lower	Upper
146	100		
148	64.1	50.4	75.6
111	40.9	34.1	51.1

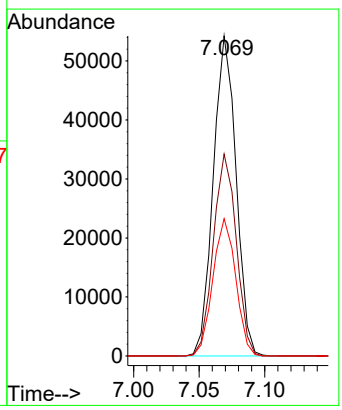


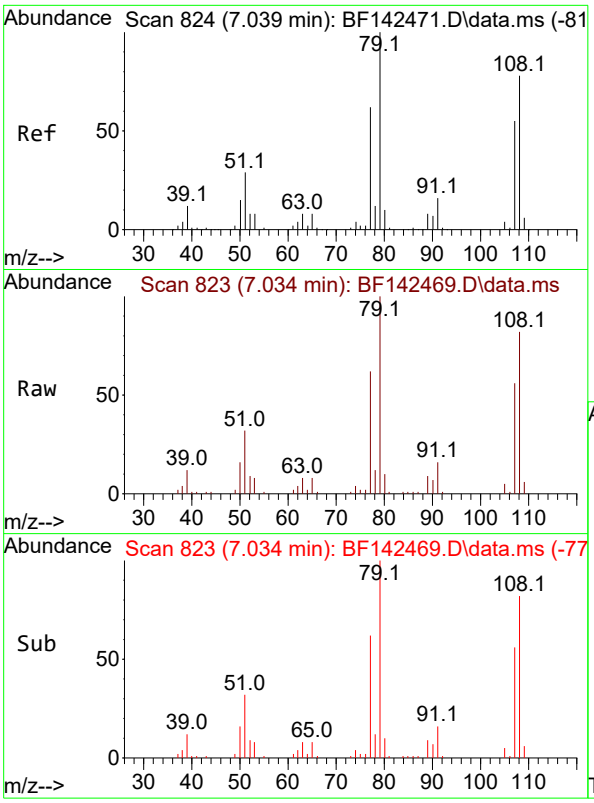


#14
1,2-Dichlorobenzene
Concen: 10.102 ng
RT: 7.069 min Scan# 829
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:146 Resp: 65441

Ion	Ratio	Lower	Upper
146	100		
148	63.1	51.0	76.4
111	42.9	35.0	52.6



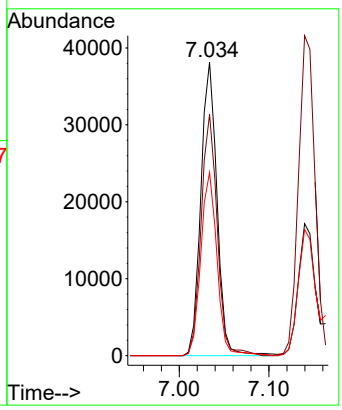


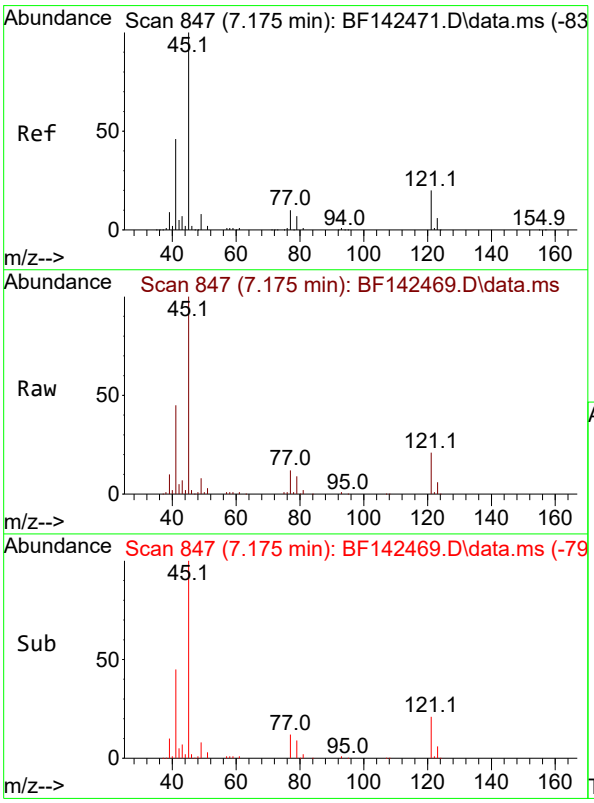
#15
Benzyl Alcohol
Concen: 9.699 ng
RT: 7.034 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 47712

Ion	Ratio	Lower	Upper
79	100		
108	82.2	62.1	93.1
77	62.4	49.5	74.3

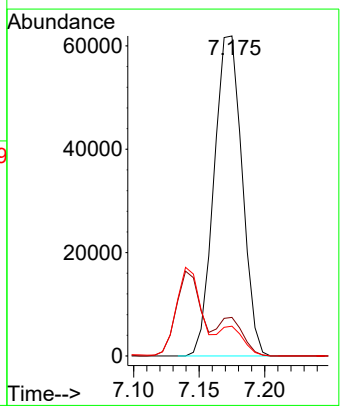


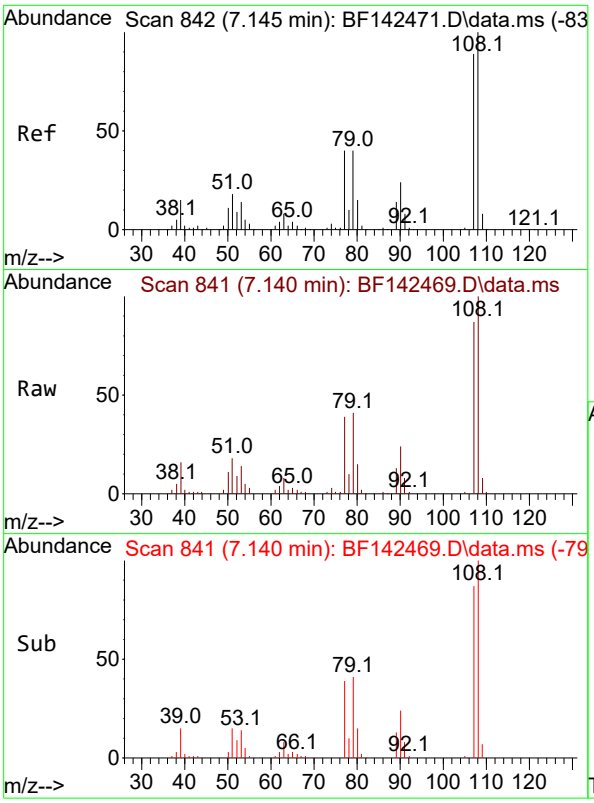


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.175 ng
RT: 7.175 min Scan# 847
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion: 45 Resp: 92128

Ion	Ratio	Lower	Upper
45	100		
77	12.1	0.0	32.0
79	9.3	0.0	29.2



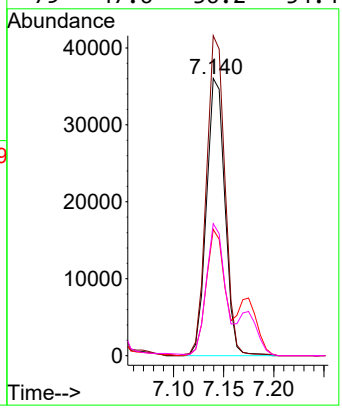


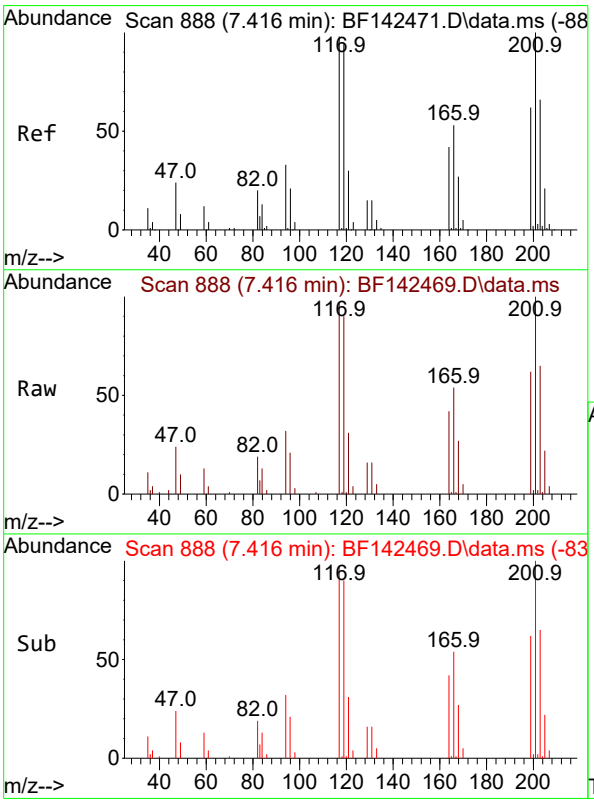
#17
2-Methylphenol
Concen: 9.825 ng
RT: 7.140 min Scan# 84
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:107 Resp: 46205

Ion	Ratio	Lower	Upper
107	100		
108	115.4	90.2	135.2
77	45.6	36.1	54.1
79	47.6	36.2	54.4

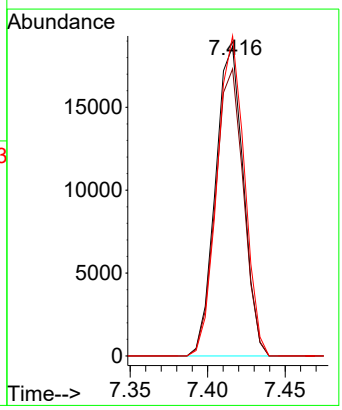


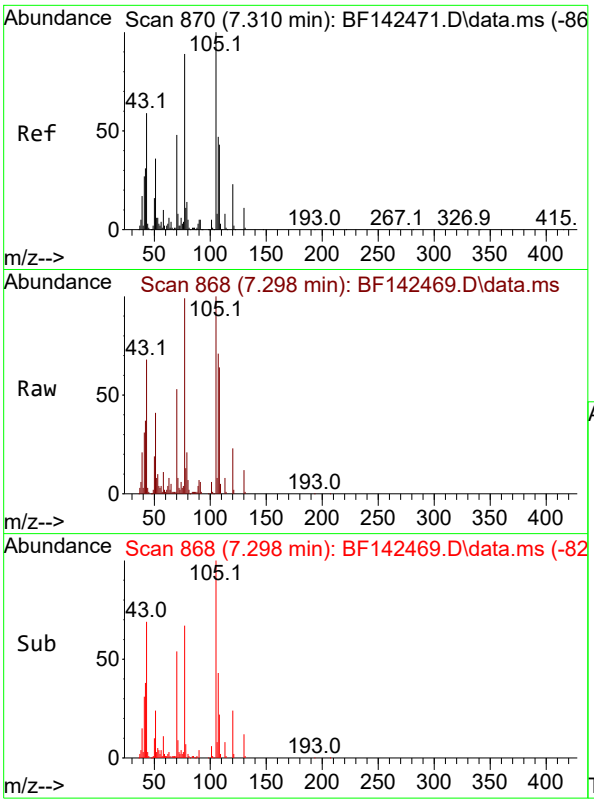


#18
Hexachloroethane
Concen: 9.909 ng
RT: 7.416 min Scan# 888
Delta R.T. 0.000 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:117 Resp: 23425

Ion	Ratio	Lower	Upper
117	100		
119	92.7	76.6	114.8
201	103.3	81.3	121.9



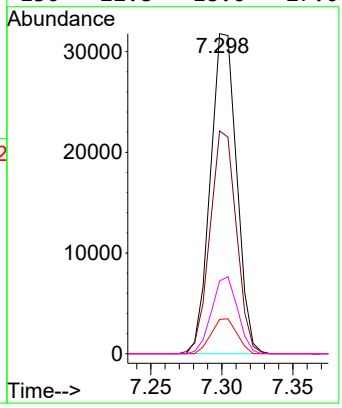


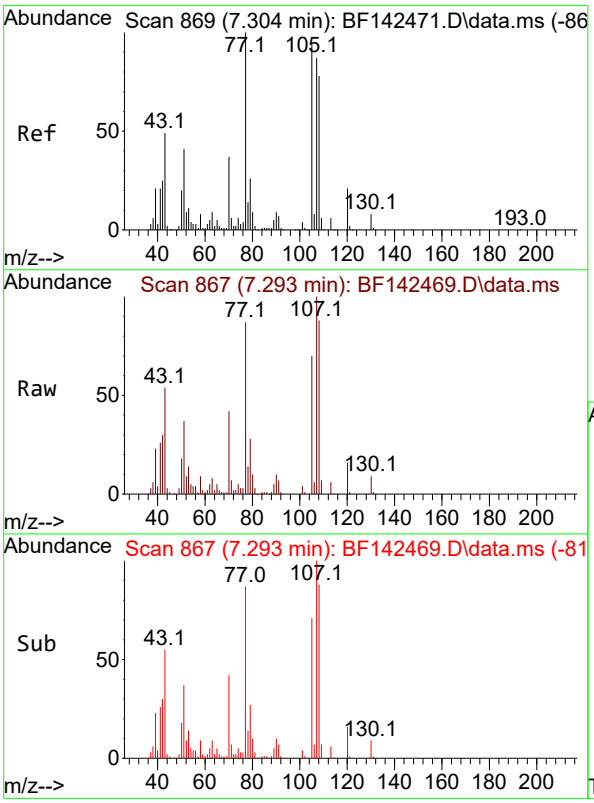
#19
n-Nitroso-di-n-propylamine
Concen: 9.937 ng
RT: 7.298 min Scan# 8
Delta R.T. -0.029 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 70 Resp: 40995

Ion	Ratio	Lower	Upper
70	100		
42	69.6	52.4	78.6
101	10.7	7.8	11.8
130	22.8	18.0	27.0

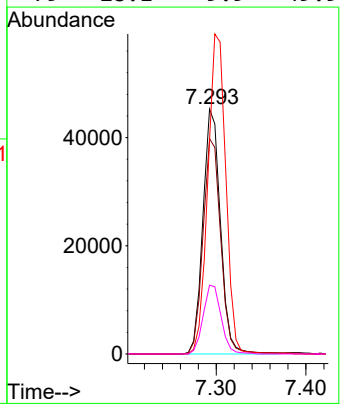


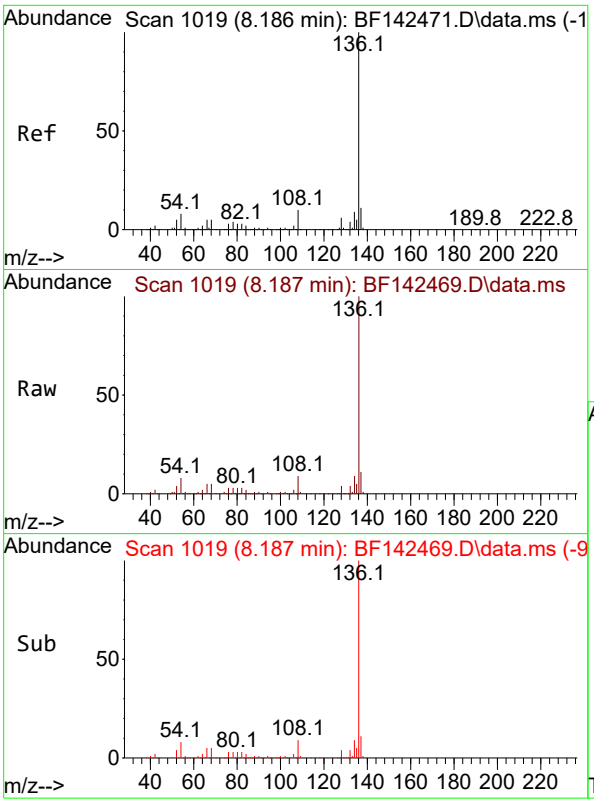


#20
3+4-Methylphenols
Concen: 10.203 ng
RT: 7.293 min Scan# 867
Delta R.T. -0.017 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:107 Resp: 61444

Ion	Ratio	Lower	Upper
107	100		
108	87.9	70.4	110.4
77	87.2	95.4	135.4#
79	28.1	9.9	49.9



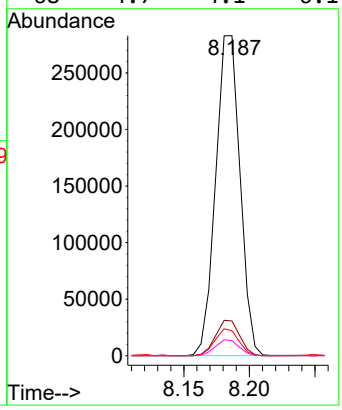


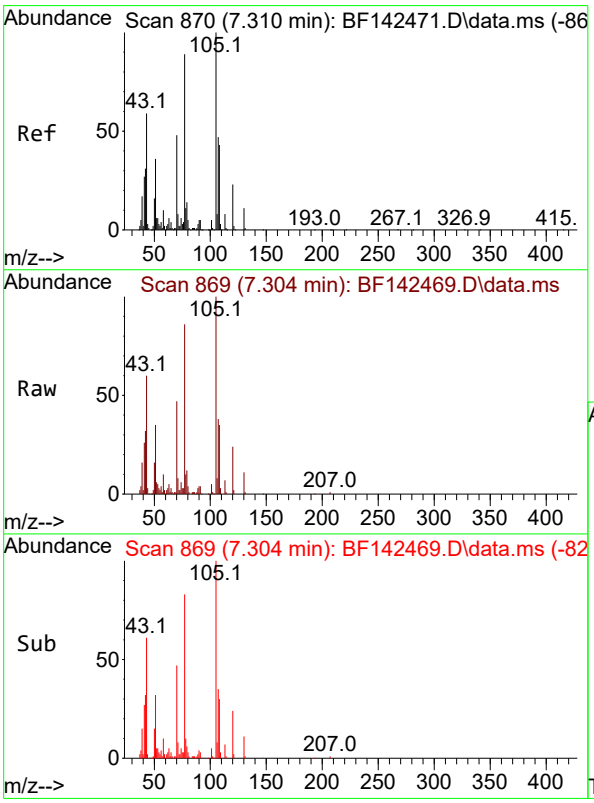
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.187 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:136 Resp: 365488

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	7.8	6.6	10.0
68	4.7	4.1	6.1

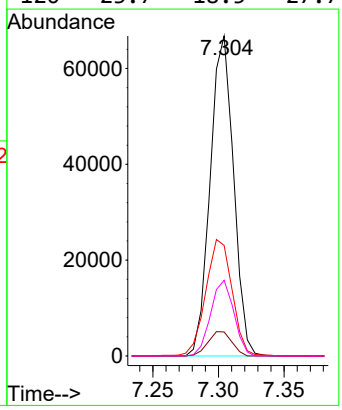


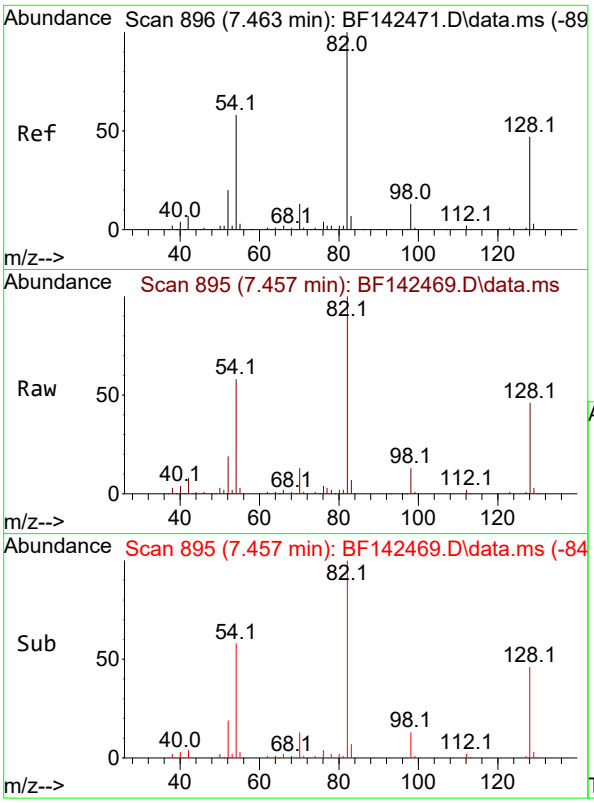


#22
Acetophenone
Concen: 10.234 ng
RT: 7.304 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:105 Resp: 82804

Ion	Ratio	Lower	Upper
105	100		
71	7.5	6.4	9.6
51	34.5	28.6	42.8
120	23.7	18.5	27.7



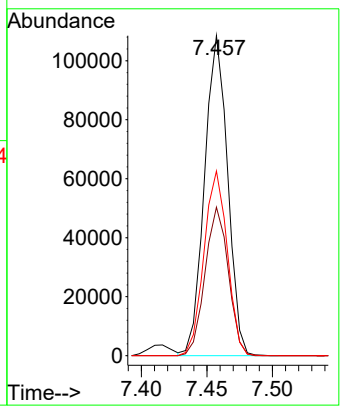


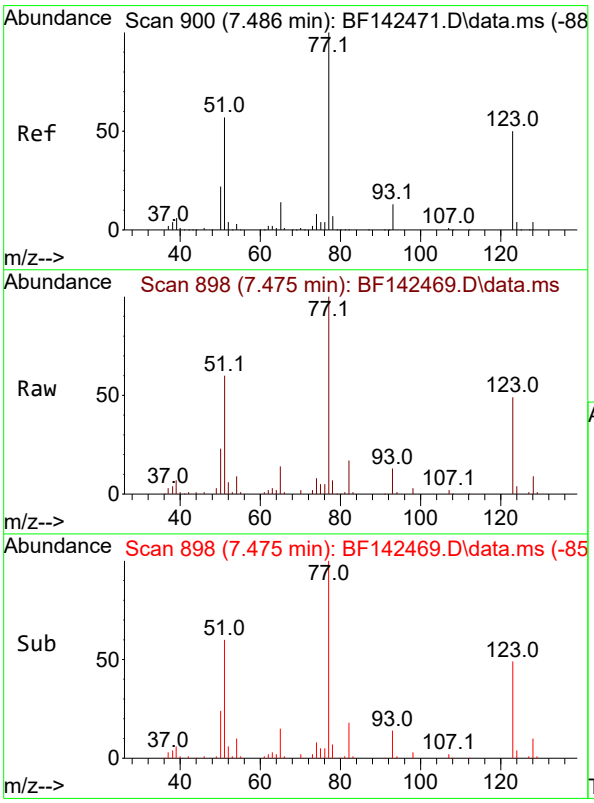
#23
Nitrobenzene-d5
Concen: 19.881 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 133256

Ion	Ratio	Lower	Upper
82	100		
128	46.4	37.4	56.2
54	57.7	46.6	70.0

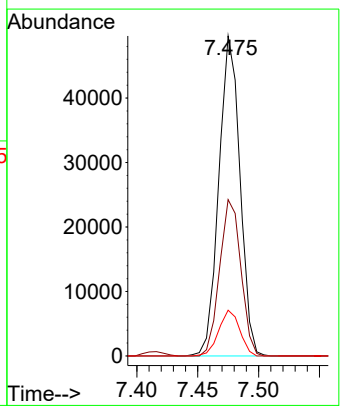


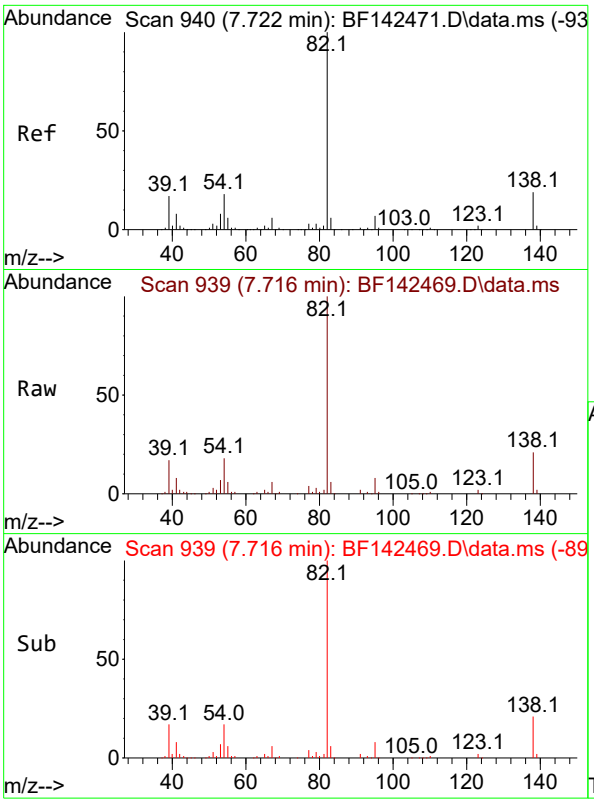


#24
Nitrobenzene
Concen: 9.904 ng
RT: 7.475 min Scan# 898
Delta R.T. -0.017 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion: 77 Resp: 59873

Ion	Ratio	Lower	Upper
77	100		
123	48.8	40.6	61.0
65	14.3	11.4	17.2



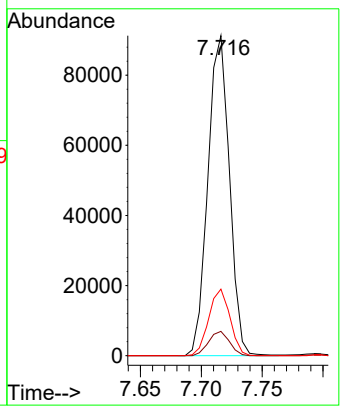


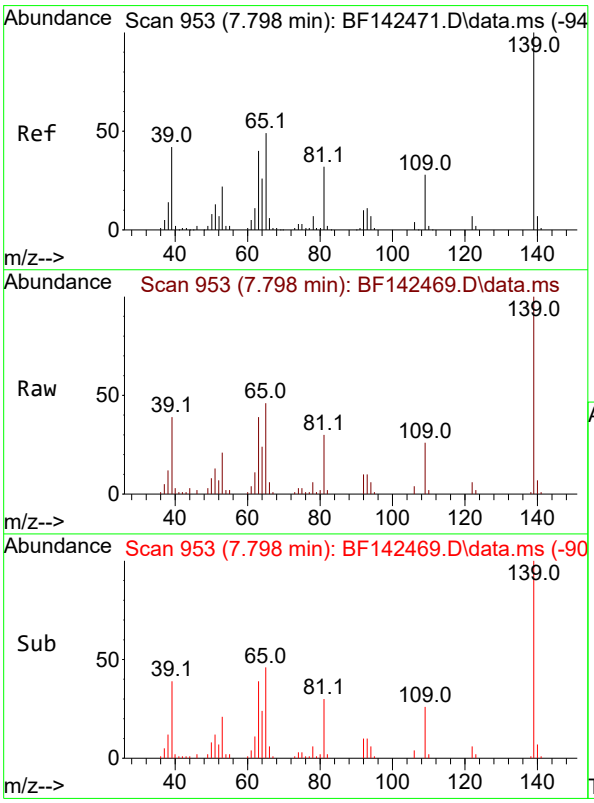
#25
Isophorone
Concen: 10.027 ng
RT: 7.716 min Scan# 9
Delta R.T. -0.017 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 112365

Ion	Ratio	Lower	Upper
82	100		
95	7.6	6.0	9.0
138	20.8	15.5	23.3

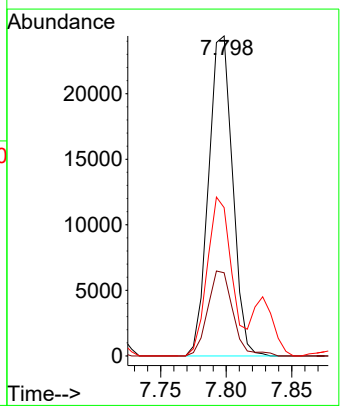


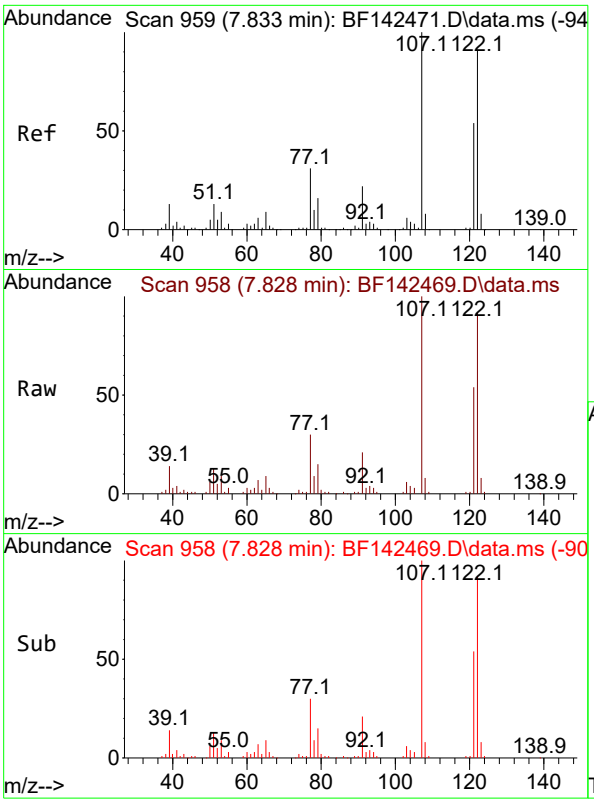


#26
2-Nitrophenol
Concen: 9.623 ng
RT: 7.798 min Scan# 953
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:139 Resp: 31085

Ion	Ratio	Lower	Upper
139	100		
109	26.0	22.6	33.8
65	46.4	39.4	59.0



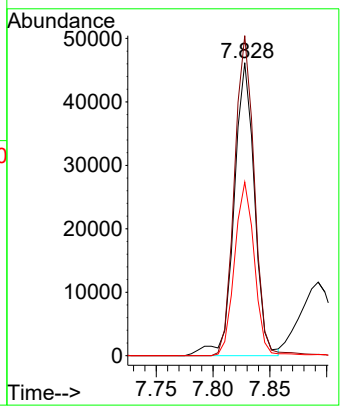


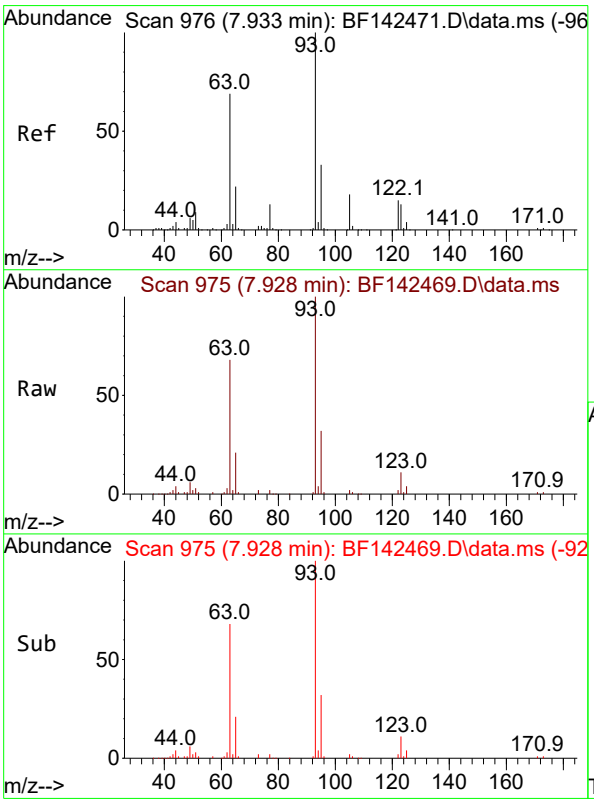
#27
2,4-Dimethylphenol
Concen: 10.102 ng
RT: 7.828 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:122 Resp: 57543

Ion	Ratio	Lower	Upper
122	100		
107	109.2	88.1	132.1
121	59.3	47.3	70.9

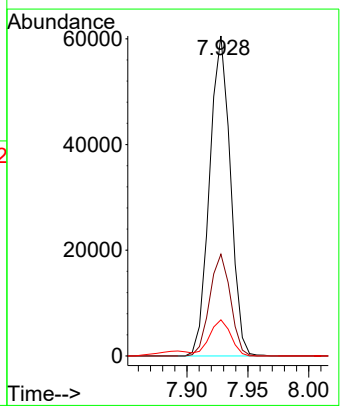


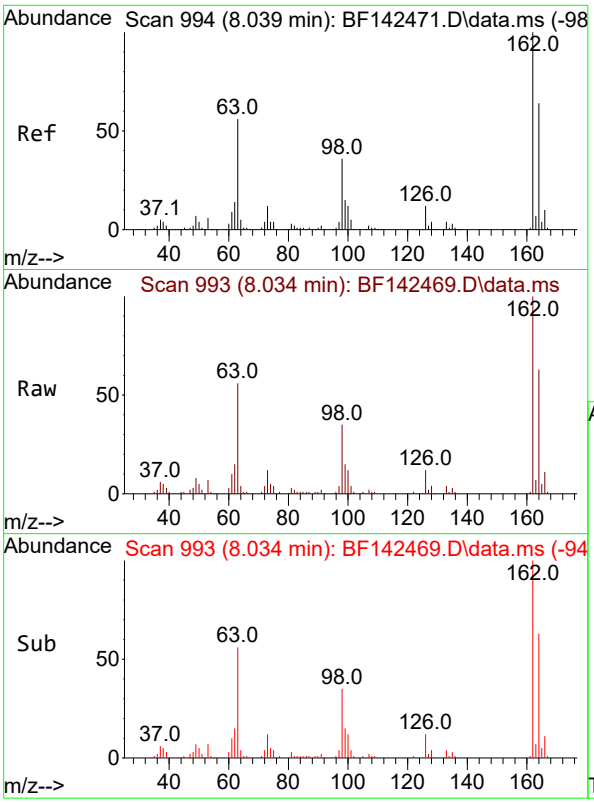


#28
bis(2-Chloroethoxy)methane
Concen: 10.277 ng
RT: 7.928 min Scan# 975
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion: 93 Resp: 71943

Ion	Ratio	Lower	Upper
93	100		
95	31.8	26.4	39.6
123	11.3	10.6	15.8



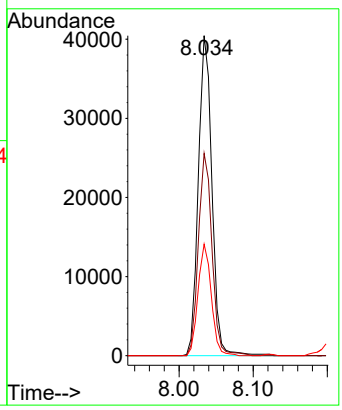


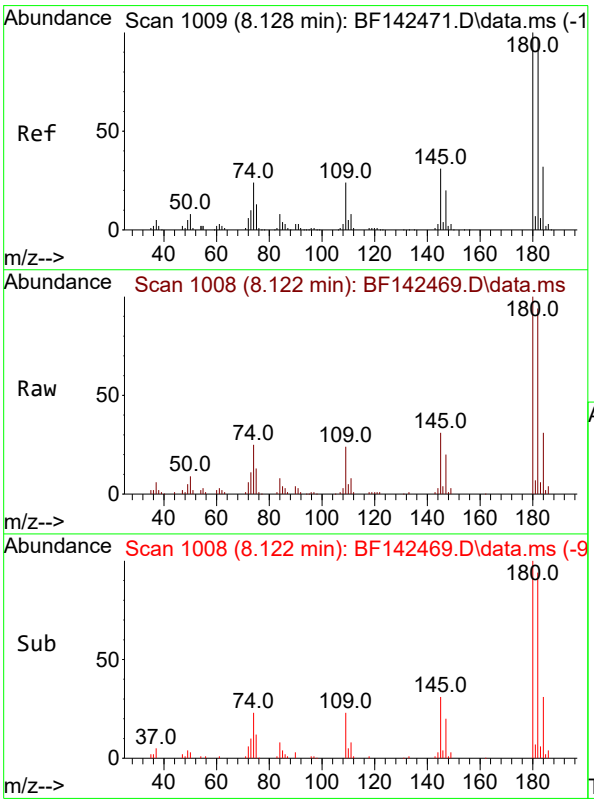
#29
2,4-Dichlorophenol
Concen: 9.941 ng
RT: 8.034 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 51500

Ion	Ratio	Lower	Upper
162	100		
164	63.2	43.7	83.7
98	34.8	15.5	55.5

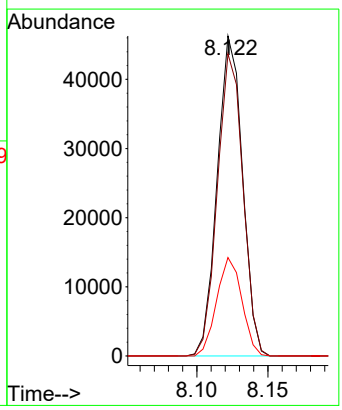


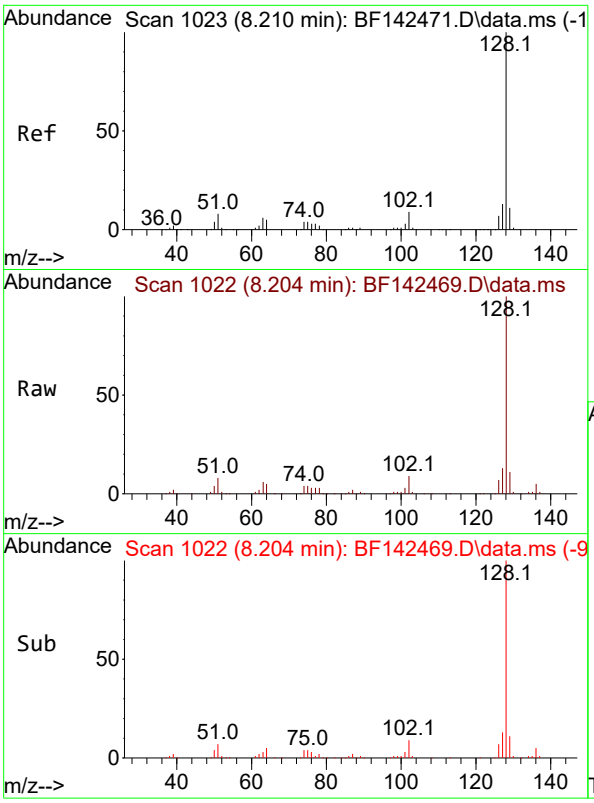


#30
1,2,4-Trichlorobenzene
Concen: 10.179 ng
RT: 8.122 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:180 Resp: 57228

Ion	Ratio	Lower	Upper
180	100		
182	94.4	78.0	117.0
145	30.8	25.0	37.6



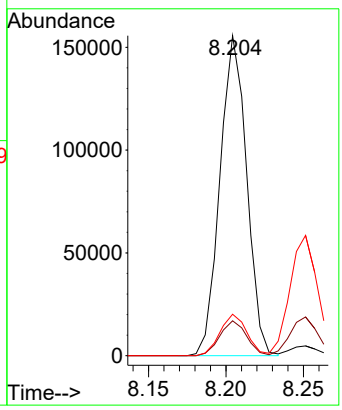


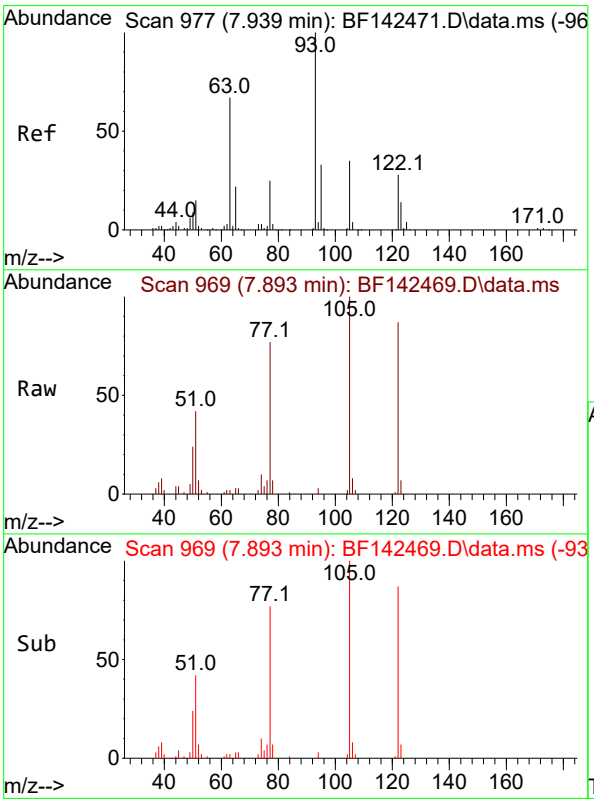
#31
Naphthalene
Concen: 10.364 ng
RT: 8.204 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:128 Resp: 186515

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.9	13.3
127	13.0	10.5	15.7

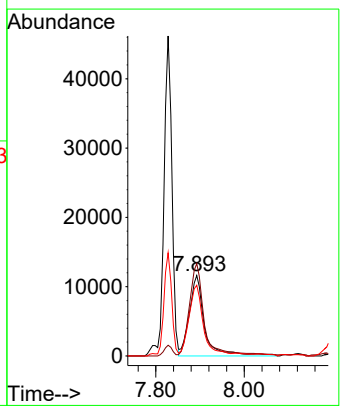


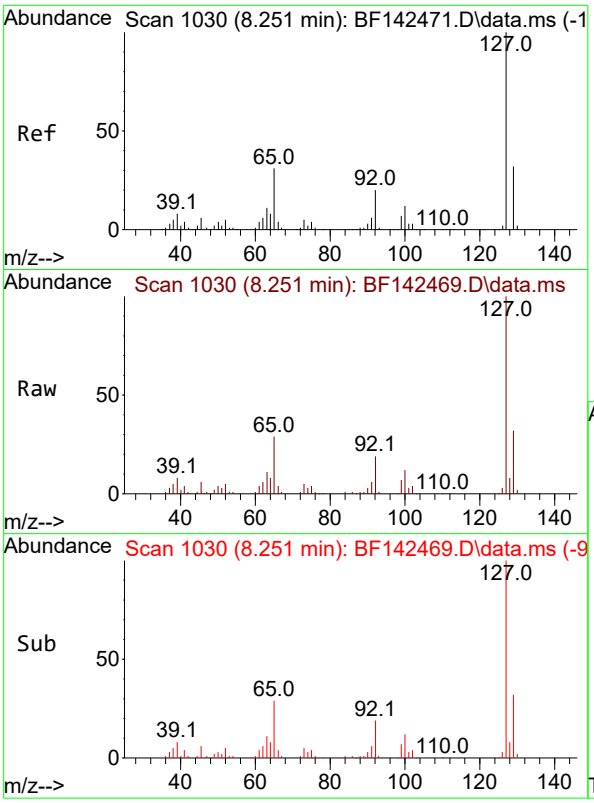


#32
Benzoic acid
Concen: 8.062 ng m
RT: 7.893 min Scan# 969
Delta R.T. -0.082 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:122 Resp: 27956

Ion	Ratio	Lower	Upper
122	100		
105	114.9	101.7	141.7
77	87.9	69.5	109.5



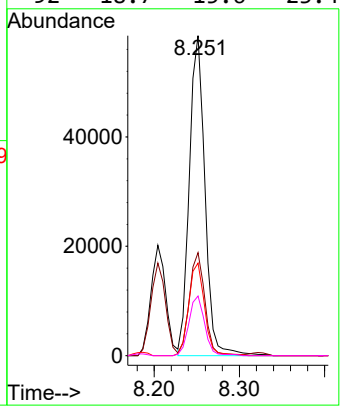


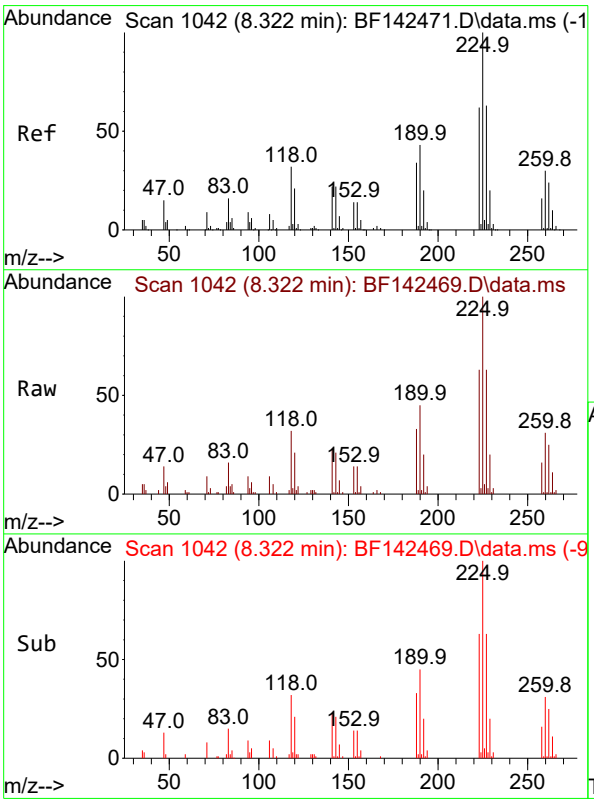
#33
4-Chloroaniline
Concen: 10.258 ng
RT: 8.251 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:127 Resp: 74805

Ion	Ratio	Lower	Upper
127	100		
129	32.2	26.1	39.1
65	29.0	24.9	37.3
92	18.7	15.6	23.4

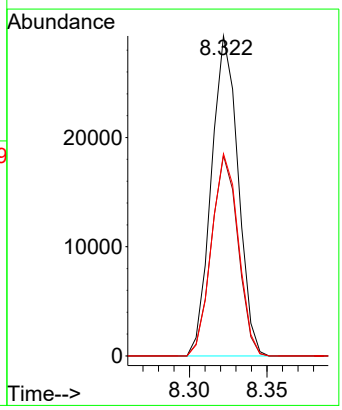


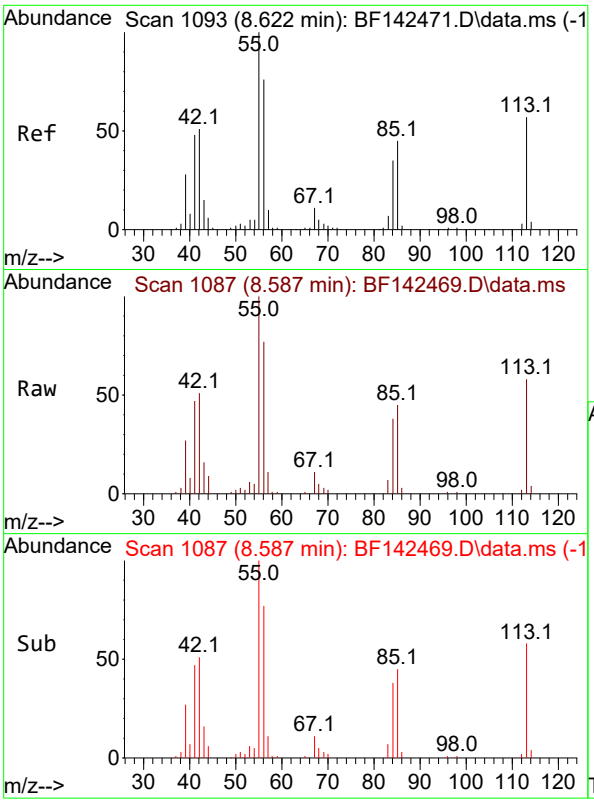


#34
Hexachlorobutadiene
Concen: 10.016 ng
RT: 8.322 min Scan# 1042
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:225 Resp: 35161

Ion	Ratio	Lower	Upper
225	100		
223	62.7	49.7	74.5
227	63.2	50.3	75.5



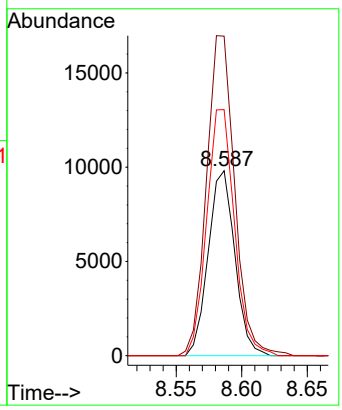


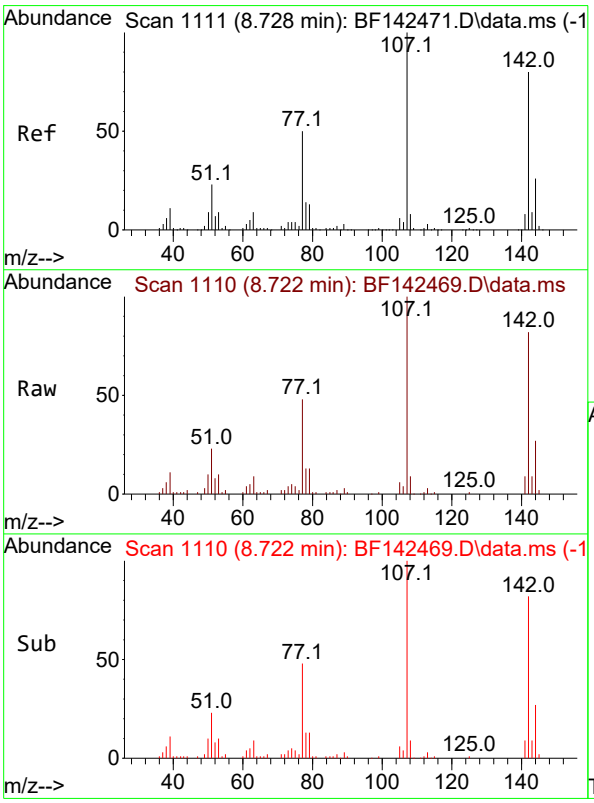
#35
Caprolactam
Concen: 9.527 ng
RT: 8.587 min Scan# 1
Delta R.T. -0.059 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:113 Resp: 13862

Ion	Ratio	Lower	Upper
113	100		
55	172.8	154.7	194.7
56	133.0	113.2	153.2

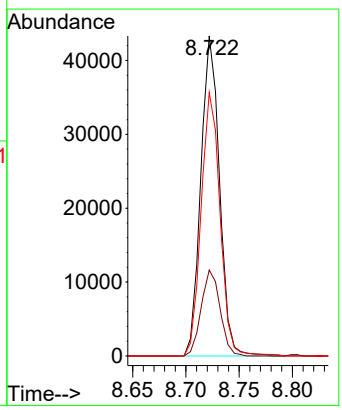


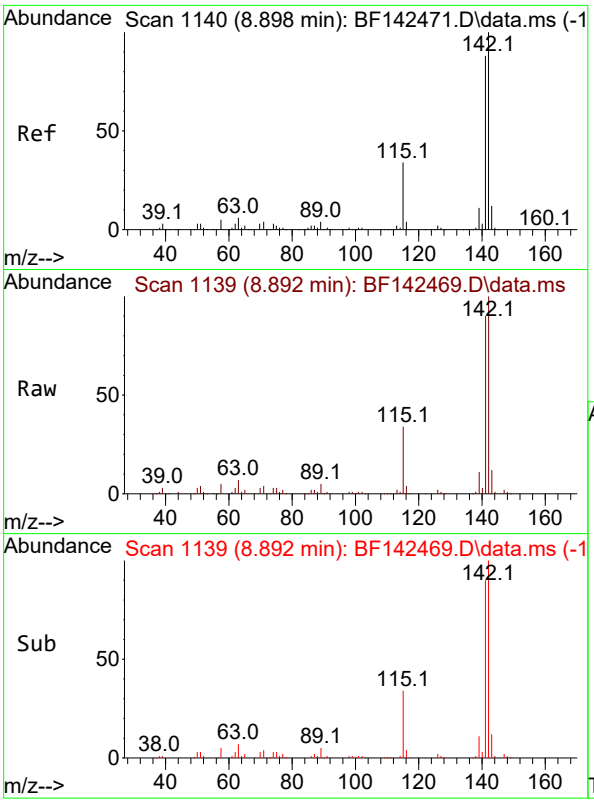


#36
4-Chloro-3-methylphenol
Concen: 9.968 ng
RT: 8.722 min Scan# 1110
Delta R.T. -0.017 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:107 Resp: 52919

Ion	Ratio	Lower	Upper
107	100		
144	26.9	20.9	31.3
142	82.4	64.2	96.2



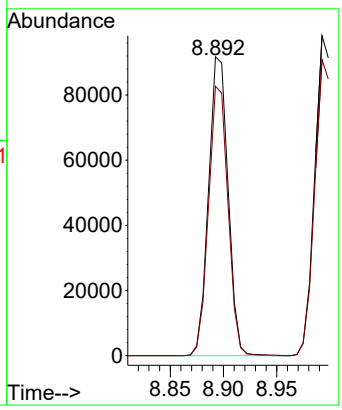


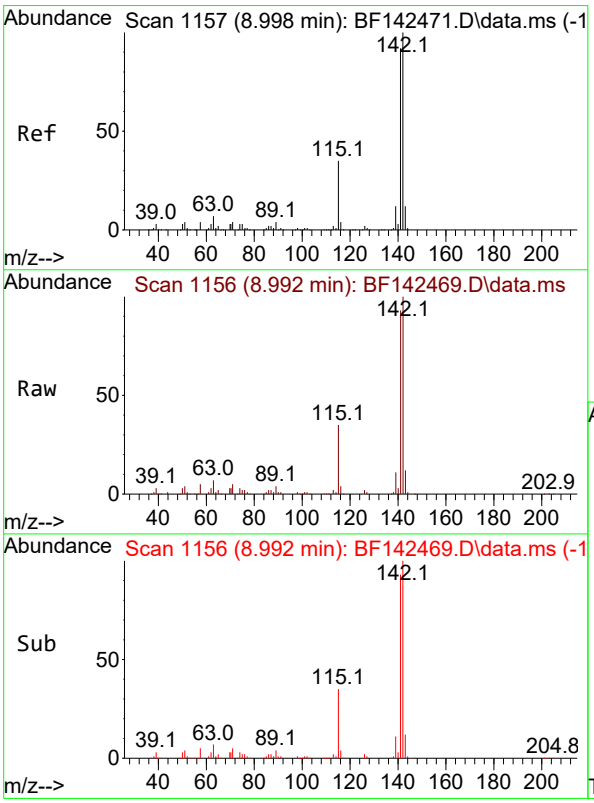
#37
2-Methylnaphthalene
Concen: 10.298 ng
RT: 8.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:142 Resp: 116592

Ion	Ratio	Lower	Upper
142	100		
141	90.2	70.7	106.1

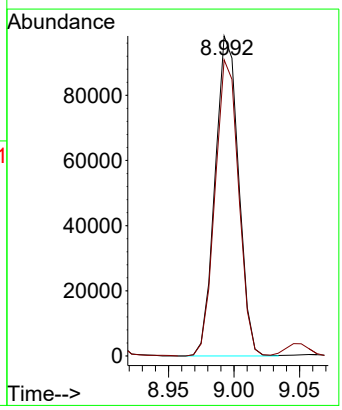


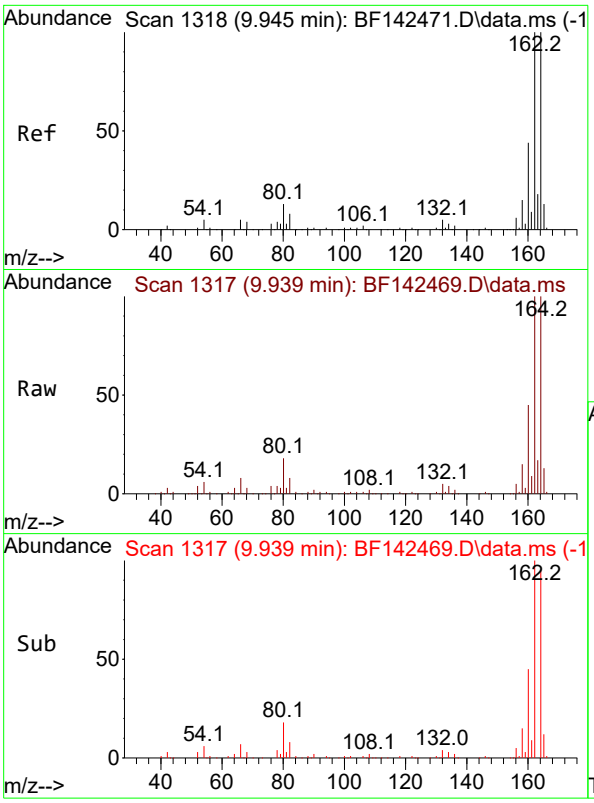


#38
1-Methylnaphthalene
Concen: 10.429 ng
RT: 8.992 min Scan# 1156
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:142 Resp: 122130

Ion	Ratio	Lower	Upper
142	100		
141	92.6	73.4	110.2



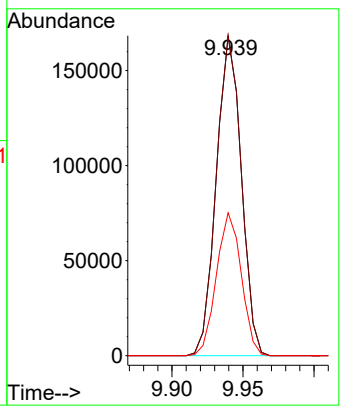


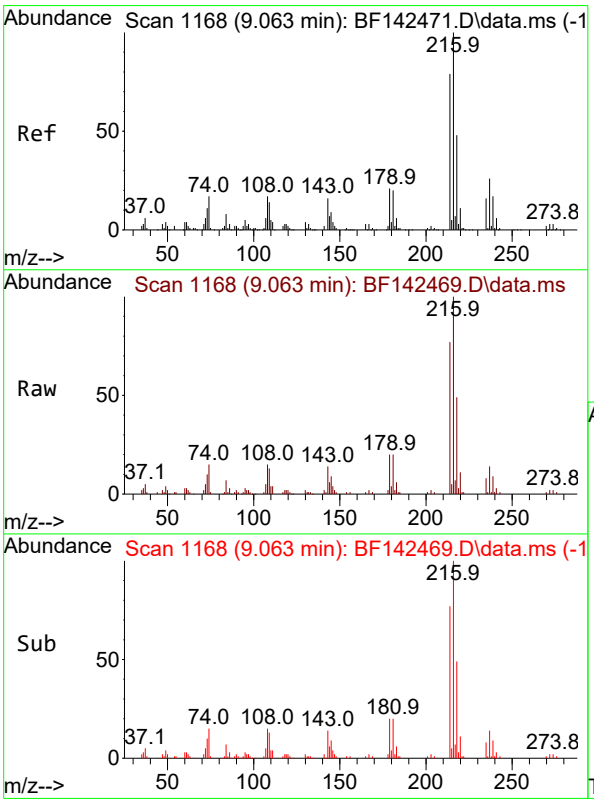
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:164 Resp: 205654

Ion	Ratio	Lower	Upper
164	100		
162	100.2	80.2	120.4
160	44.7	35.6	53.4

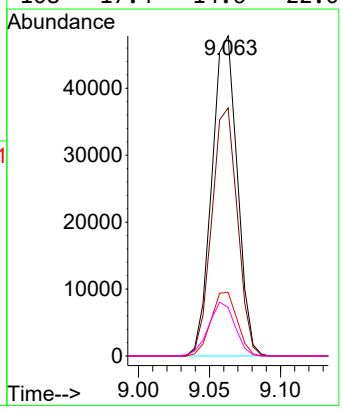


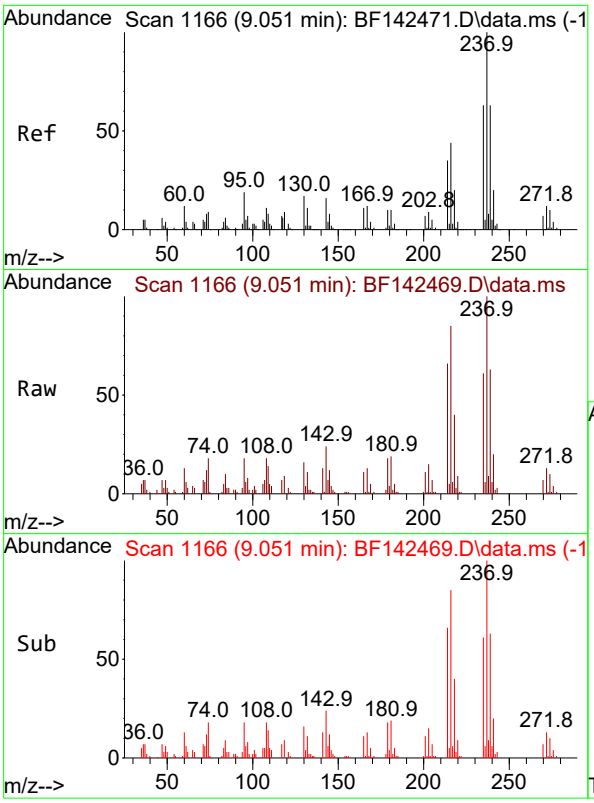


#40
1,2,4,5-Tetrachlorobenzene
Concen: 10.097 ng
RT: 9.063 min Scan# 1168
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:216 Resp: 59609

Ion	Ratio	Lower	Upper
216	100		
214	77.8	62.9	94.3
179	20.4	16.9	25.3
108	17.4	14.6	22.0



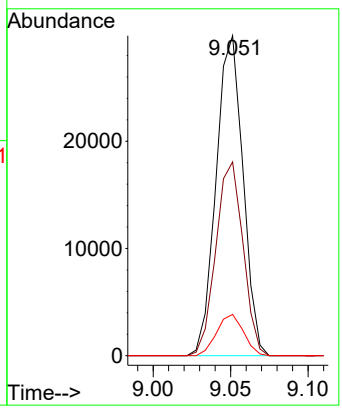


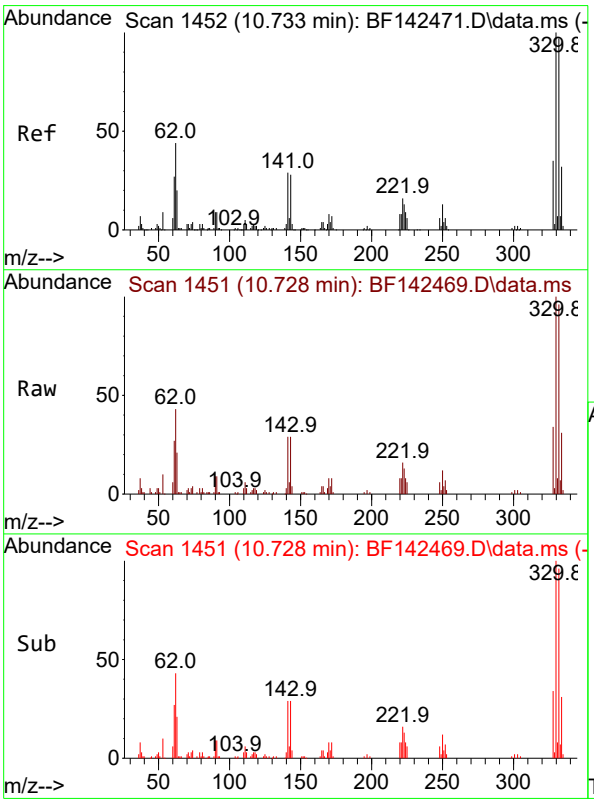
#41
Hexachlorocyclopentadiene
Concen: 9.044 ng
RT: 9.051 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:237 Resp: 36016

Ion	Ratio	Lower	Upper
237	100		
235	60.5	43.3	83.3
272	12.9	0.0	32.4

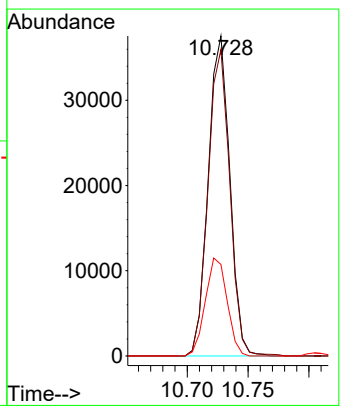


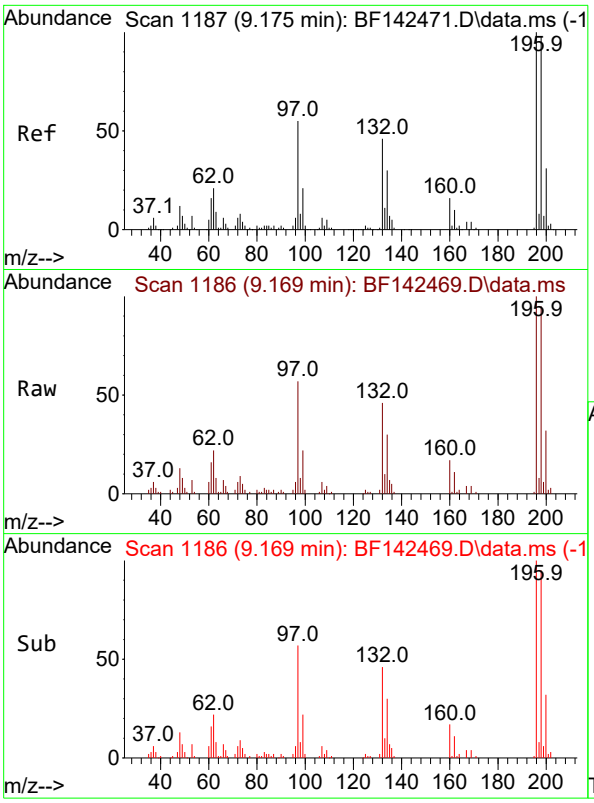


#42
2,4,6-Tribromophenol
Concen: 20.276 ng
RT: 10.728 min Scan# 1451
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:330 Resp: 46280

Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.6	116.4
141	30.8	24.6	36.8



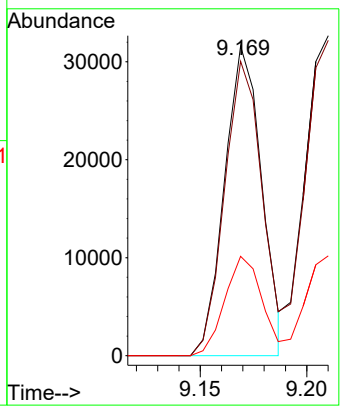


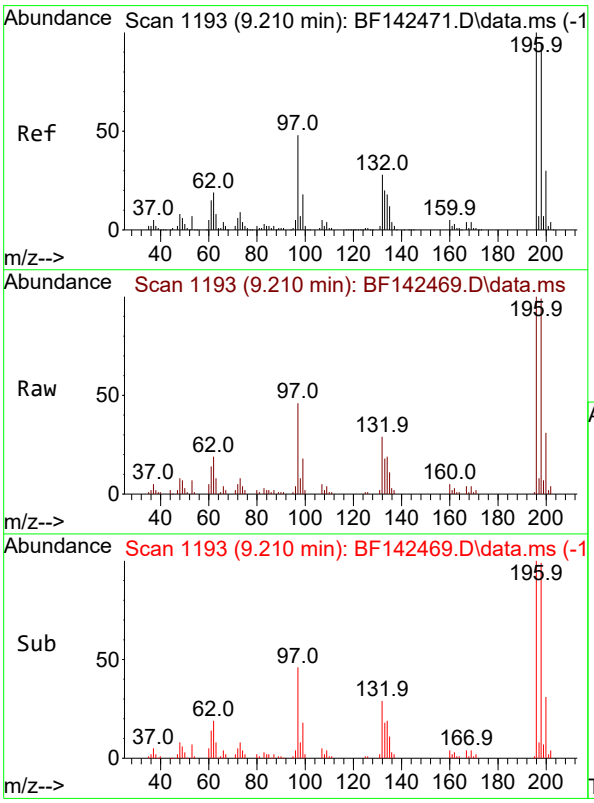
#43
2,4,6-Trichlorophenol
Concen: 9.635 ng
RT: 9.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:196 Resp: 38354

Ion	Ratio	Lower	Upper
196	100		
198	95.1	78.8	118.2
200	32.1	24.9	37.3

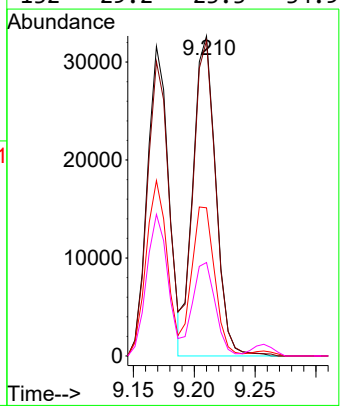


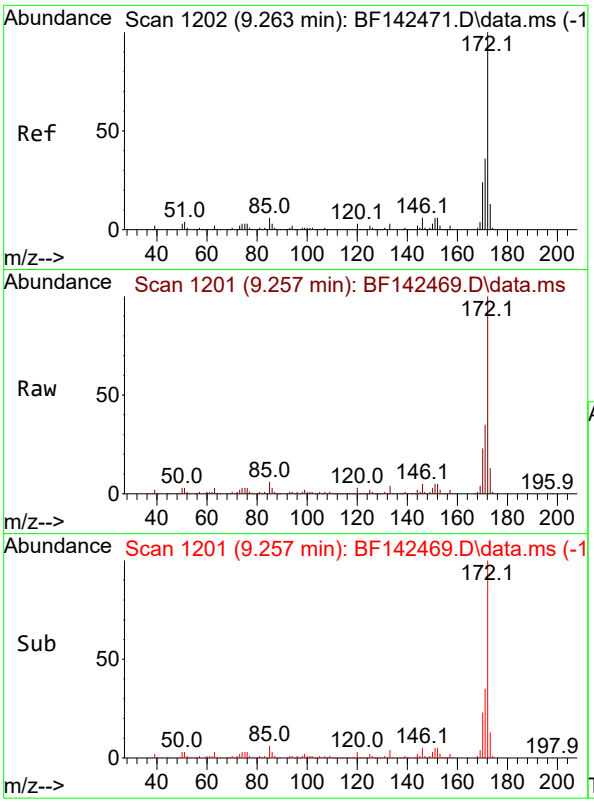


#44
2,4,5-Trichlorophenol
Concen: 10.069 ng
RT: 9.210 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:196 Resp: 42272

Ion	Ratio	Lower	Upper
196	100		
198	98.5	75.5	113.3
97	46.3	39.3	58.9
132	29.2	23.3	34.9



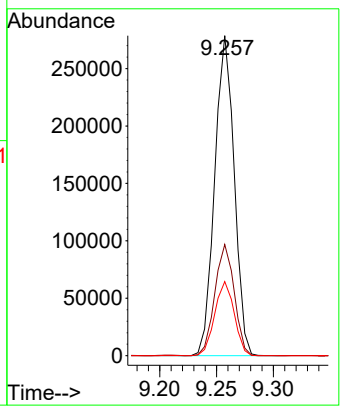


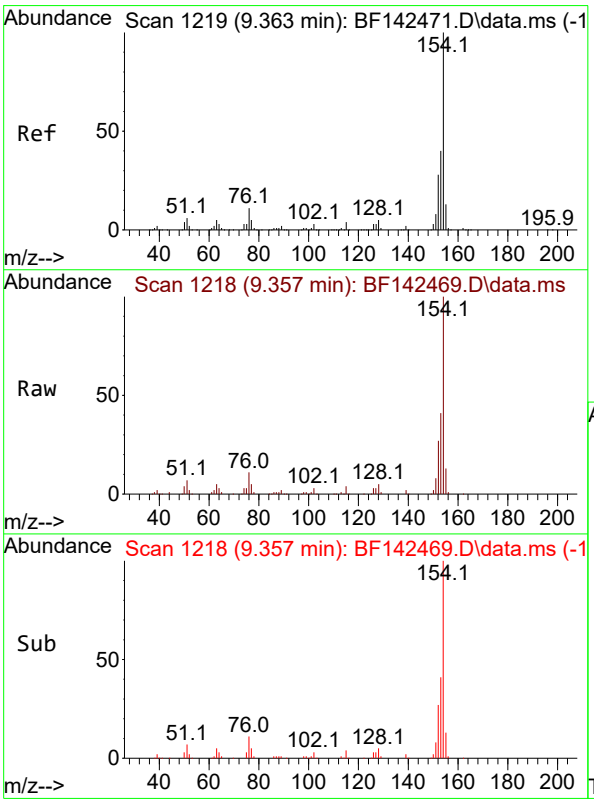
#45
2-Fluorobiphenyl
Concen: 21.719 ng
RT: 9.257 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:172 Resp: 332871

Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.6	42.8
170	23.2	18.9	28.3

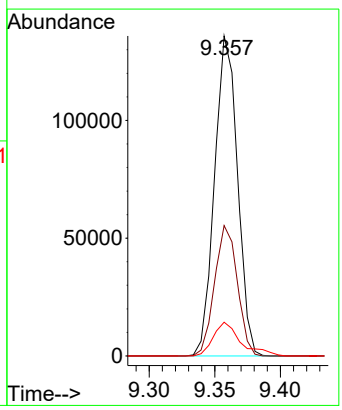


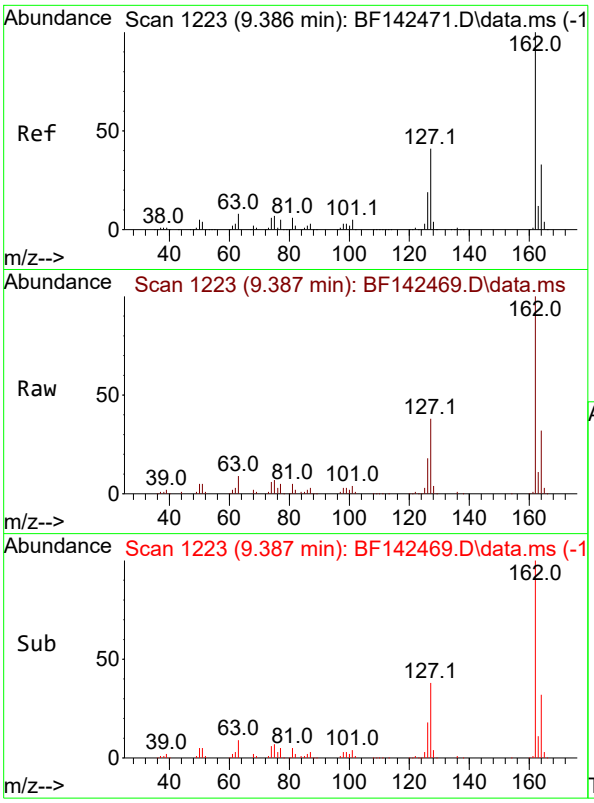


#46
1,1'-Biphenyl
Concen: 10.346 ng
RT: 9.357 min Scan# 1218
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:154 Resp: 165063

Ion	Ratio	Lower	Upper
154	100		
153	40.8	20.4	60.4
76	10.6	0.0	30.8



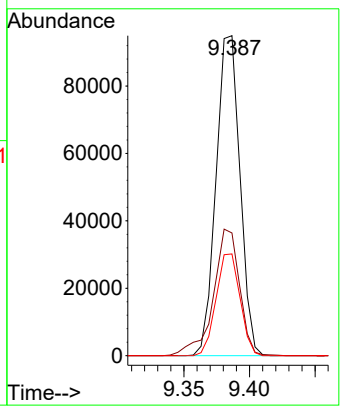


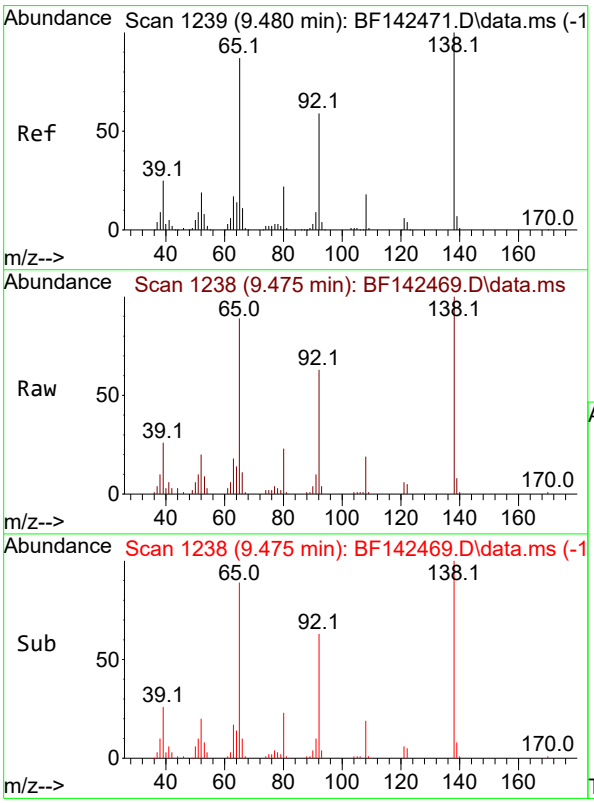
#47
2-Chloronaphthalene
Concen: 10.208 ng
RT: 9.387 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 120339

Ion	Ratio	Lower	Upper
162	100		
127	38.3	33.5	50.3
164	31.8	26.1	39.1

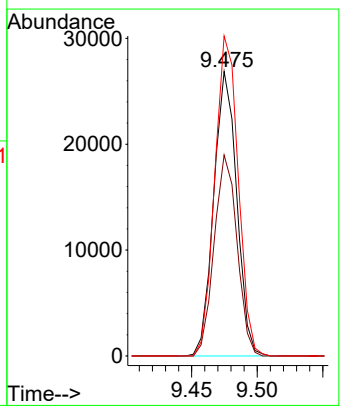


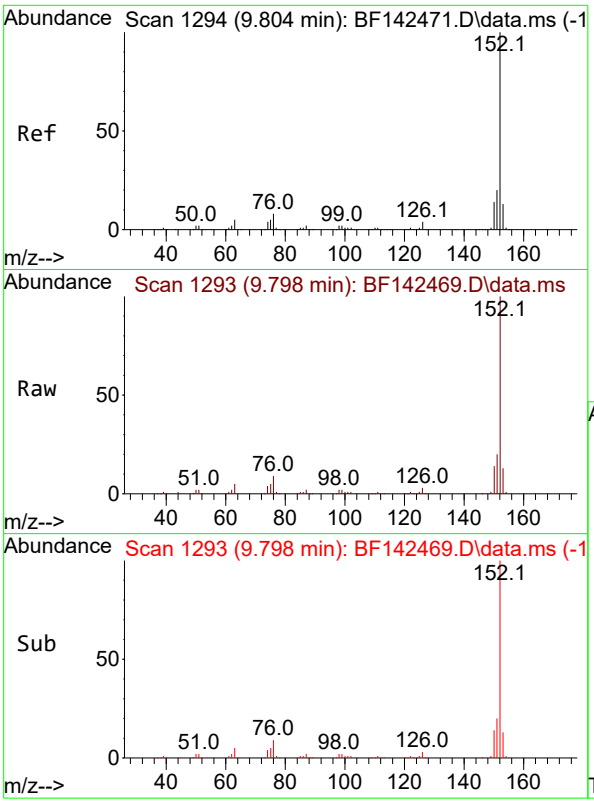


#48
2-Nitroaniline
Concen: 9.604 ng
RT: 9.475 min Scan# 1238
Delta R.T. -0.011 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion: 65 Resp: 32722

Ion	Ratio	Lower	Upper
65	100		
92	70.6	54.4	81.6
138	112.5	91.4	137.2



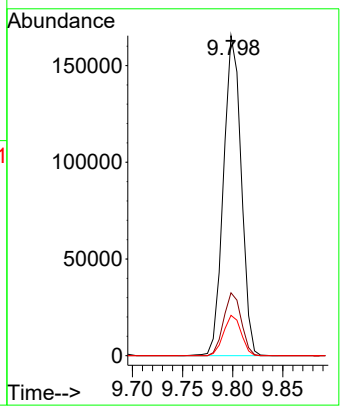


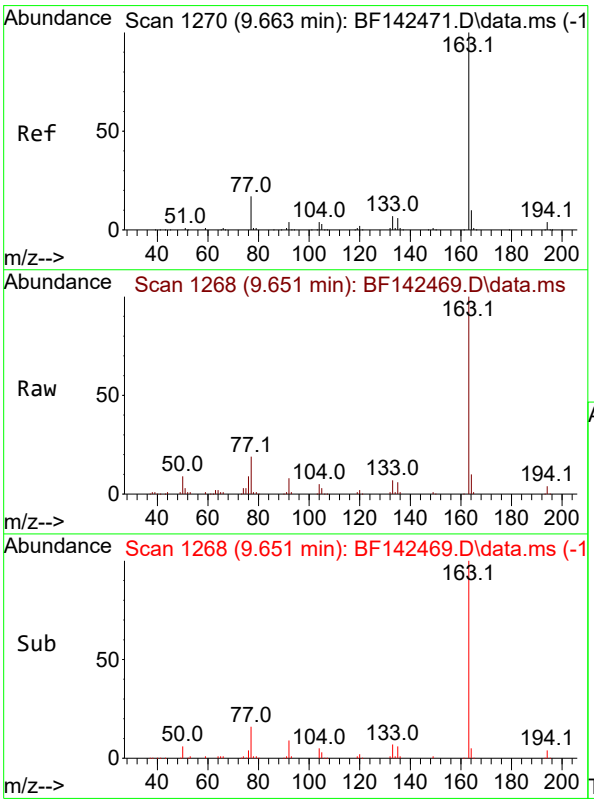
#49
Acenaphthylene
Concen: 10.237 ng
RT: 9.798 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 203767

Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.8	23.8
153	12.6	10.6	15.8

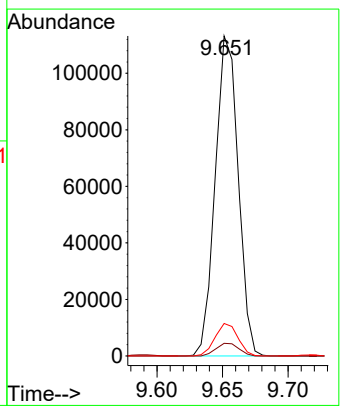


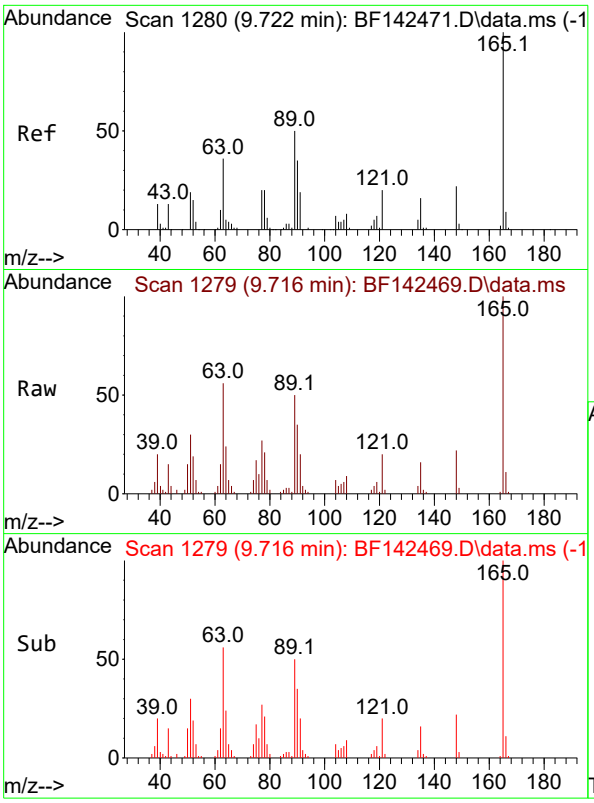


#50
Dimethylphthalate
Concen: 10.155 ng
RT: 9.651 min Scan# 1268
Delta R.T. -0.017 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:163 Resp: 137804

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.3	4.9
164	10.2	8.2	12.4



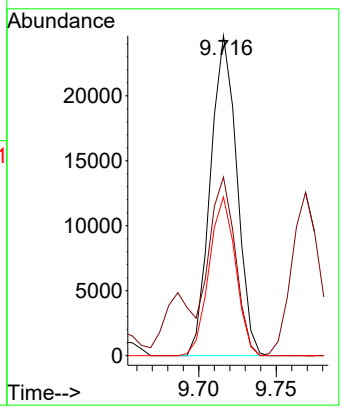


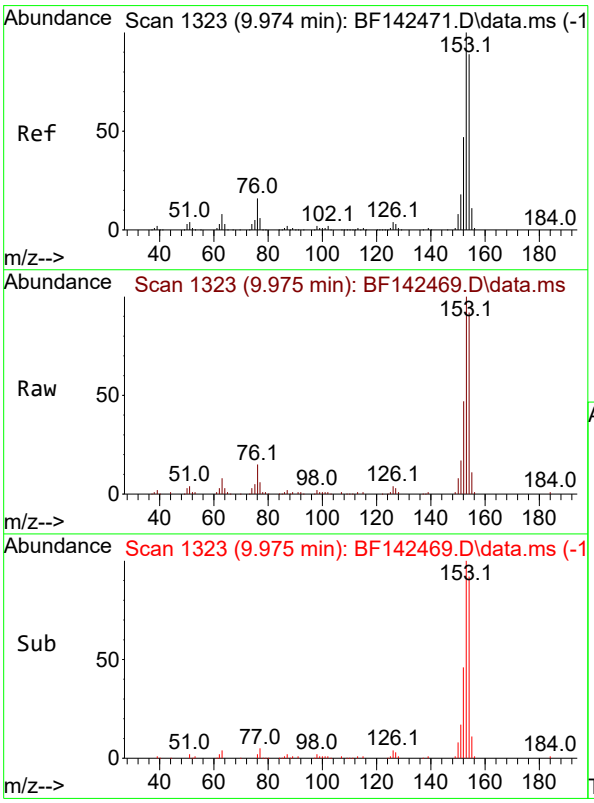
#51
2,6-Dinitrotoluene
Concen: 9.940 ng
RT: 9.716 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 29112

Ion	Ratio	Lower	Upper
165	100		
63	55.8	42.9	64.3
89	49.6	40.2	60.4

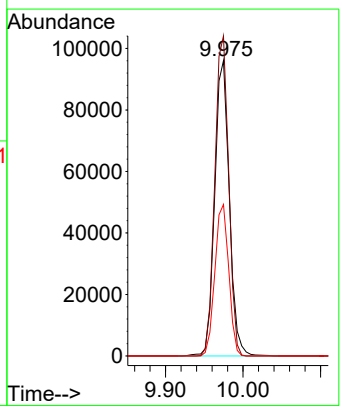


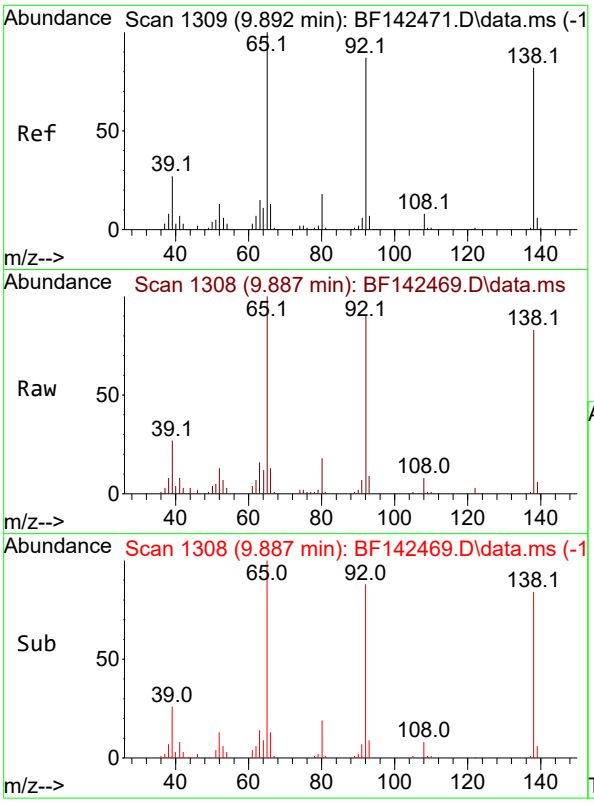


#52
Acenaphthene
Concen: 10.339 ng
RT: 9.975 min Scan# 1323
Delta R.T. -0.005 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:154 Resp: 125669

Ion	Ratio	Lower	Upper
154	100		
153	108.4	90.0	135.0
152	51.3	42.6	64.0



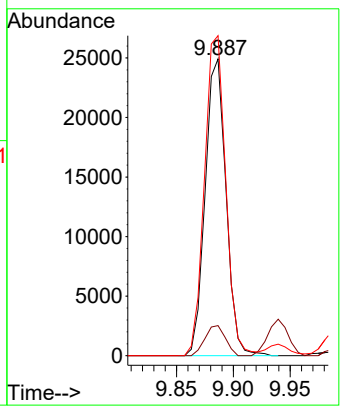


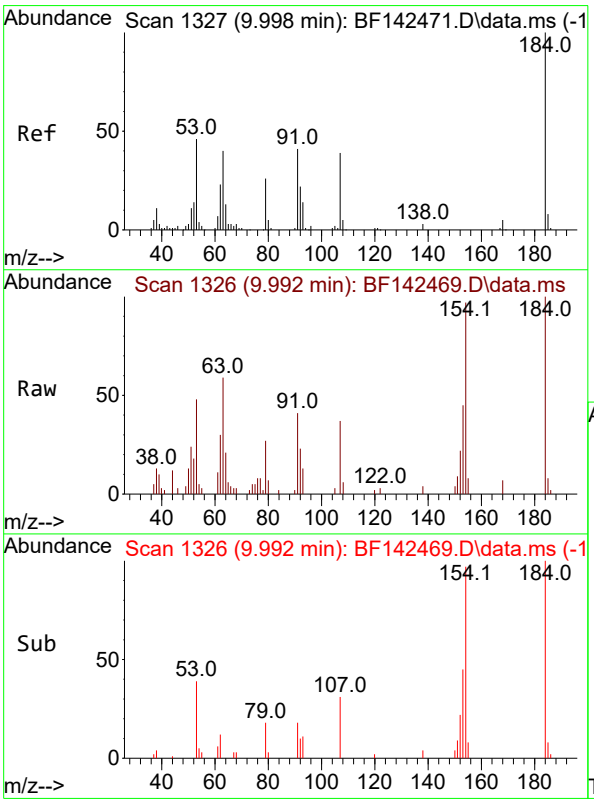
#53
3-Nitroaniline
Concen: 9.947 ng
RT: 9.887 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:138 Resp: 31820

Ion	Ratio	Lower	Upper
138	100		
108	10.1	8.1	12.1
92	107.8	85.2	127.8

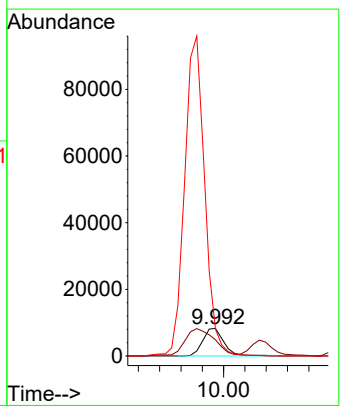


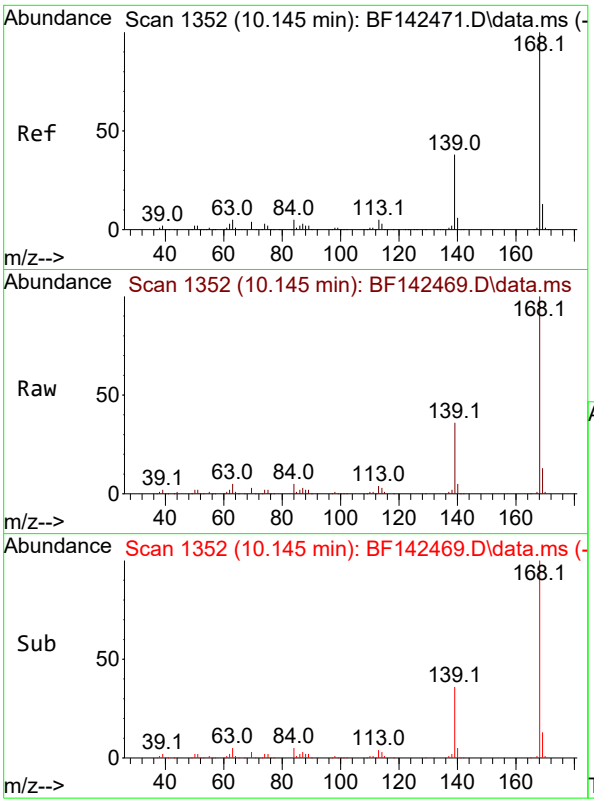


#54
2,4-Dinitrophenol
Concen: 7.502 ng
RT: 9.992 min Scan# 1326
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:184 Resp: 11352

Ion	Ratio	Lower	Upper
184	100		
63	58.7	46.3	69.5
154	97.5	56.8	85.2#



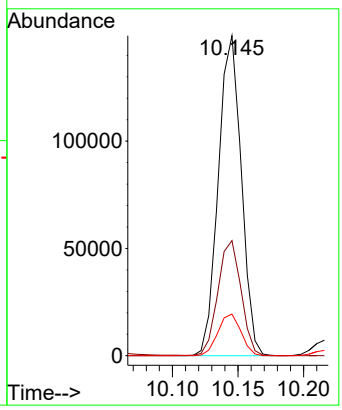


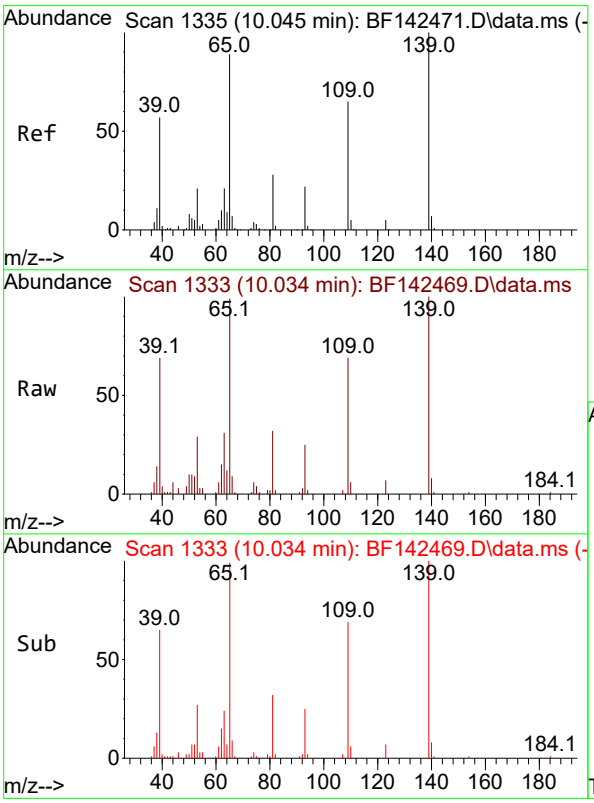
#55
Dibenzofuran
Concen: 10.380 ng
RT: 10.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:168 Resp: 181558

Ion	Ratio	Lower	Upper
168	100		
139	36.0	30.2	45.2
169	13.0	10.7	16.1

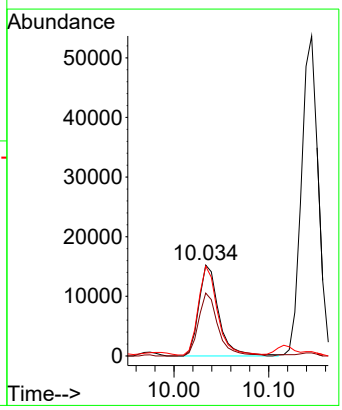


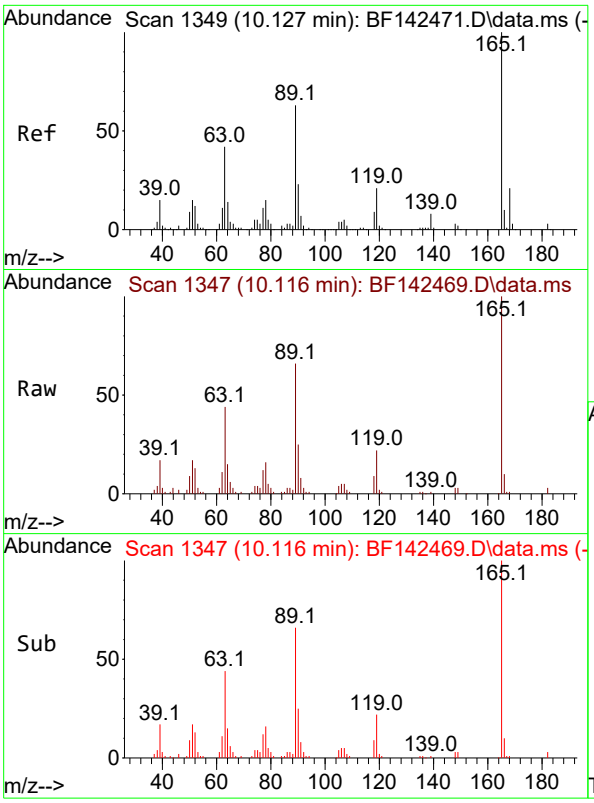


#56
4-Nitrophenol
Concen: 9.456 ng
RT: 10.034 min Scan# 1333
Delta R.T. -0.017 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:139 Resp: 22320

Ion	Ratio	Lower	Upper
139	100		
109	69.1	45.1	85.1
65	98.8	69.7	109.7



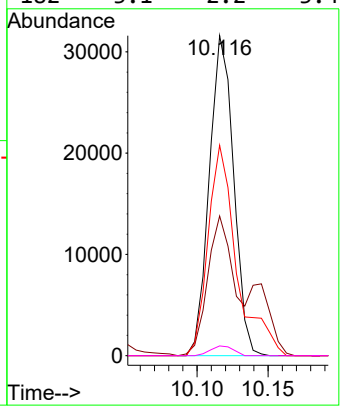


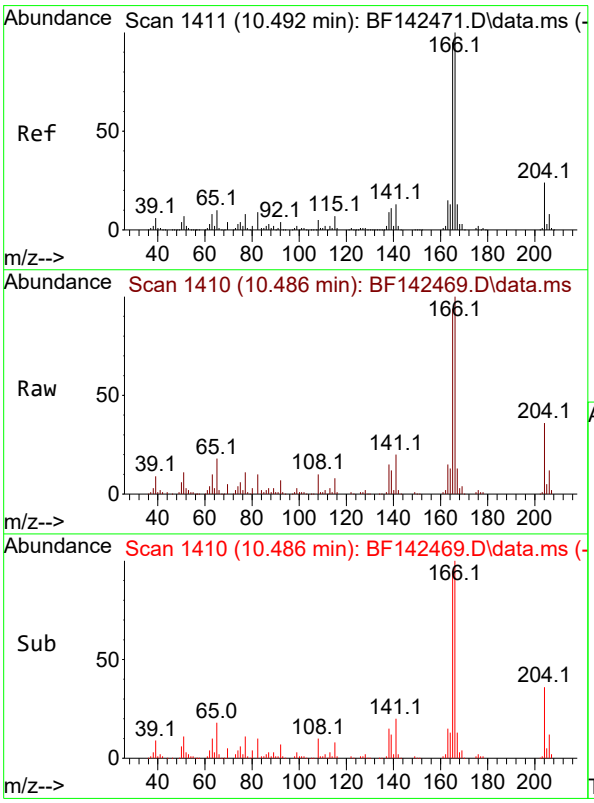
#57
2,4-Dinitrotoluene
Concen: 9.869 ng
RT: 10.116 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 37749

Ion	Ratio	Lower	Upper
165	100		
63	43.7	33.6	50.4
89	65.7	50.2	75.4
182	3.1	2.2	3.4

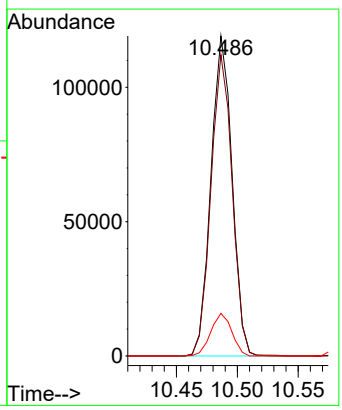


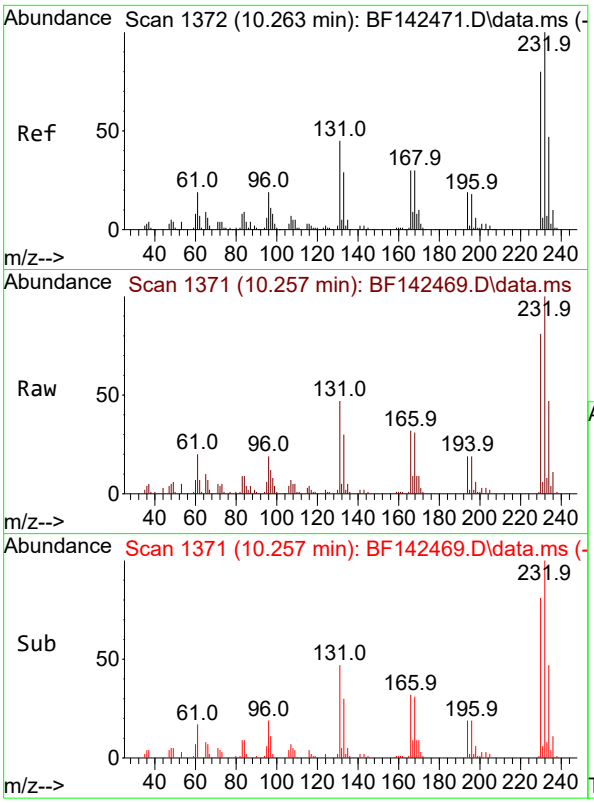


#58
Fluorene
Concen: 10.648 ng
RT: 10.486 min Scan# 1410
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:166 Resp: 143883

Ion	Ratio	Lower	Upper
166	100		
165	94.2	75.8	113.8
167	13.3	10.6	16.0



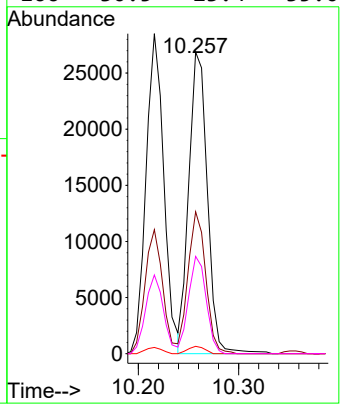


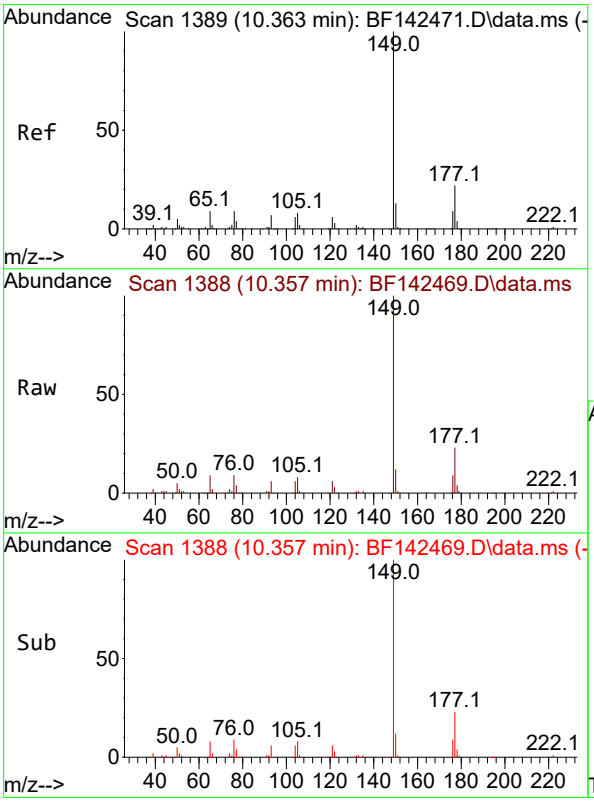
#59
2,3,4,6-Tetrachlorophenol
Concen: 9.857 ng
RT: 10.257 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:232 Resp: 34548

Ion	Ratio	Lower	Upper
232	100		
131	44.5	35.2	52.8
130	2.2	1.7	2.5
166	30.5	23.4	35.0

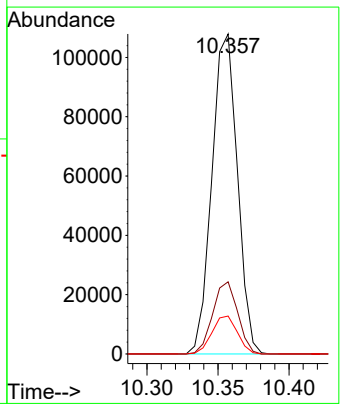


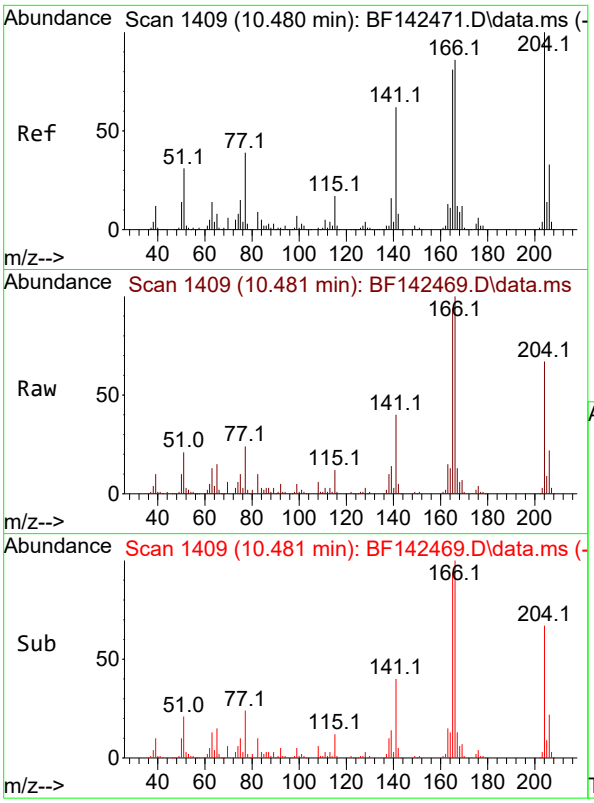


#60
Diethylphthalate
Concen: 10.161 ng
RT: 10.357 min Scan# 1388
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:149 Resp: 134662

Ion	Ratio	Lower	Upper
149	100		
177	22.5	17.6	26.4
150	11.8	10.1	15.1



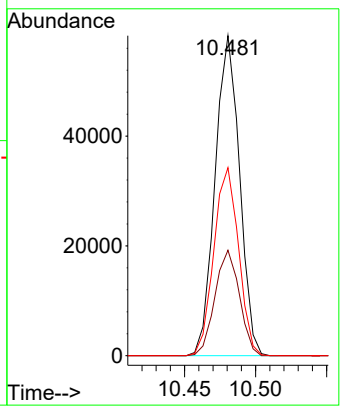


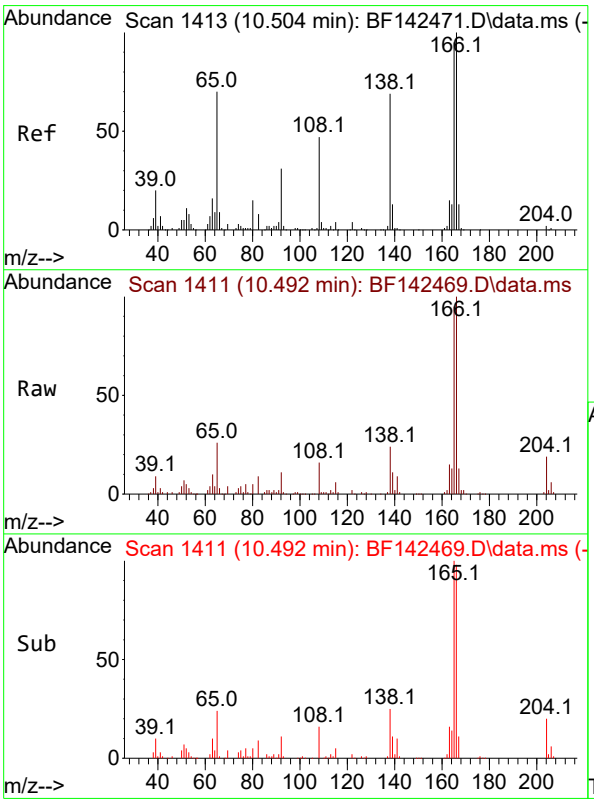
#61
4-Chlorophenyl-phenylether
Concen: 10.506 ng
RT: 10.481 min Scan# 14
Delta R.T. -0.005 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:204 Resp: 69739

Ion	Ratio	Lower	Upper
204	100		
206	33.0	26.3	39.5
141	58.7	49.5	74.3

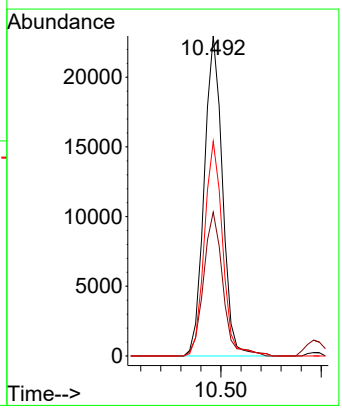


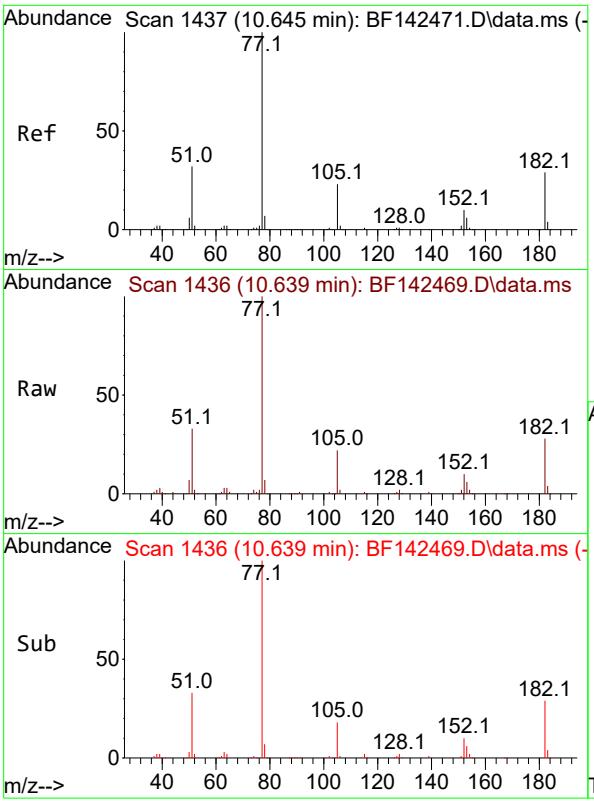


#62
4-Nitroaniline
Concen: 10.038 ng
RT: 10.492 min Scan# 1411
Delta R.T. -0.023 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:138 Resp: 29122

Ion	Ratio	Lower	Upper
138	100		
92	45.0	26.0	66.0
108	67.1	48.4	88.4



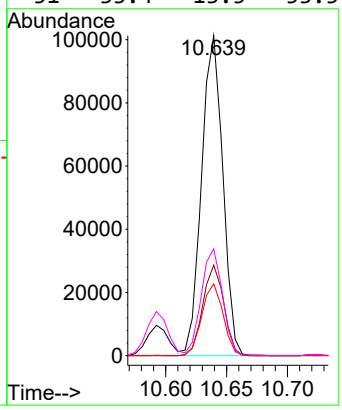


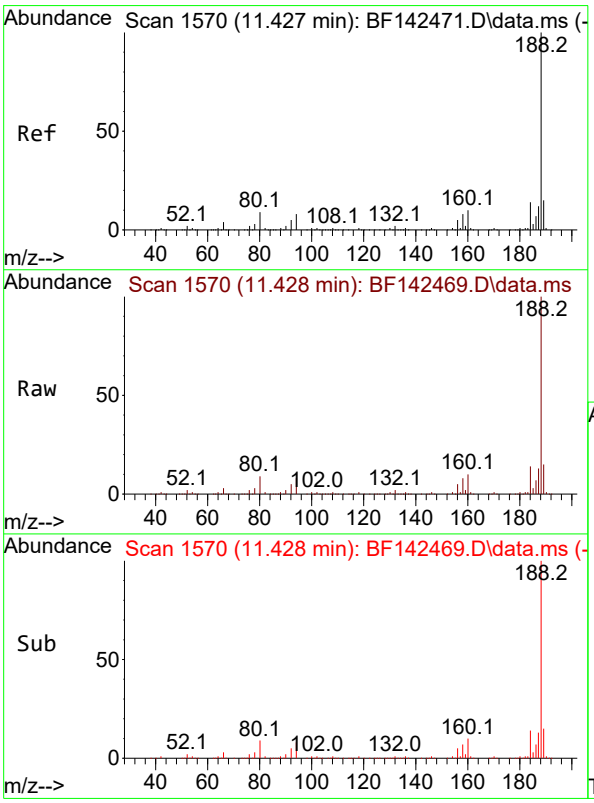
#63
Azobenzene
Concen: 10.317 ng
RT: 10.639 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 122806

Ion	Ratio	Lower	Upper
77	100		
182	28.3	9.0	49.0
105	22.5	2.4	42.4
51	33.4	13.5	53.5

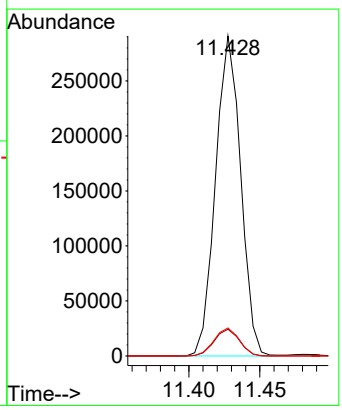


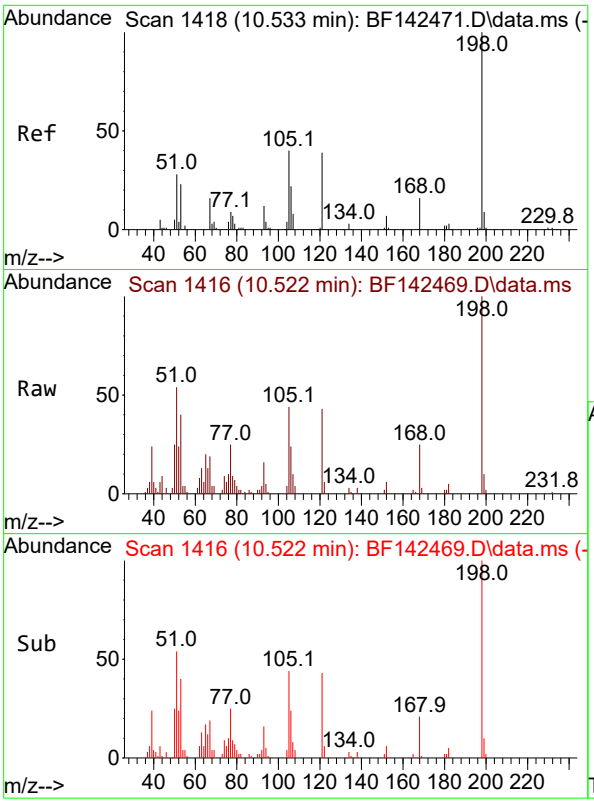


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:188 Resp: 357871

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.6	10.0
80	8.7	7.4	11.0



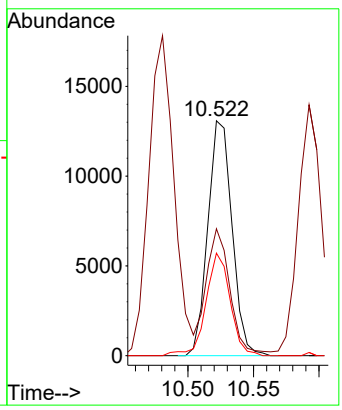


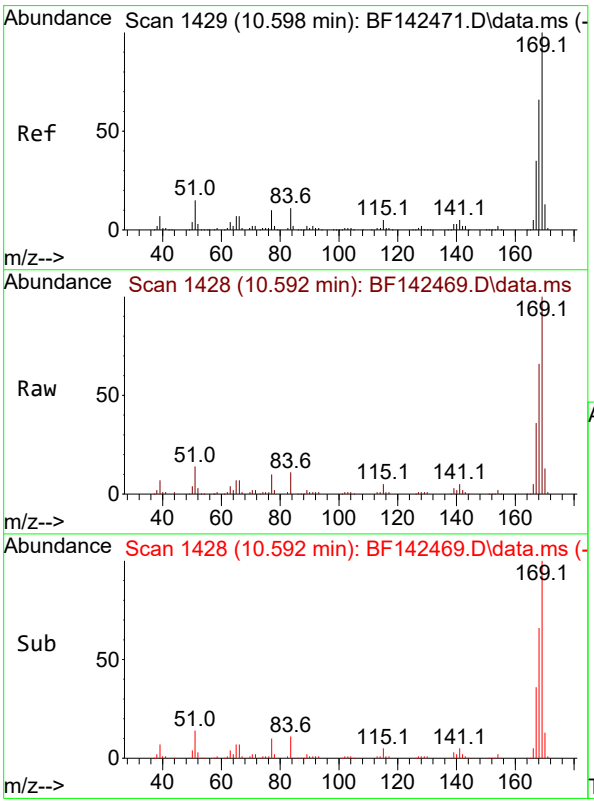
#65
4,6-Dinitro-2-methylphenol
Concen: 8.403 ng
RT: 10.522 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:198 Resp: 16782

Ion	Ratio	Lower	Upper
198	100		
51	54.0	28.3	68.3
105	43.7	21.3	61.3

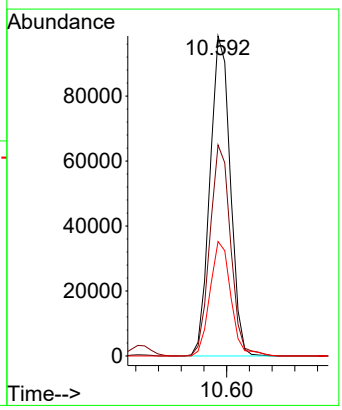


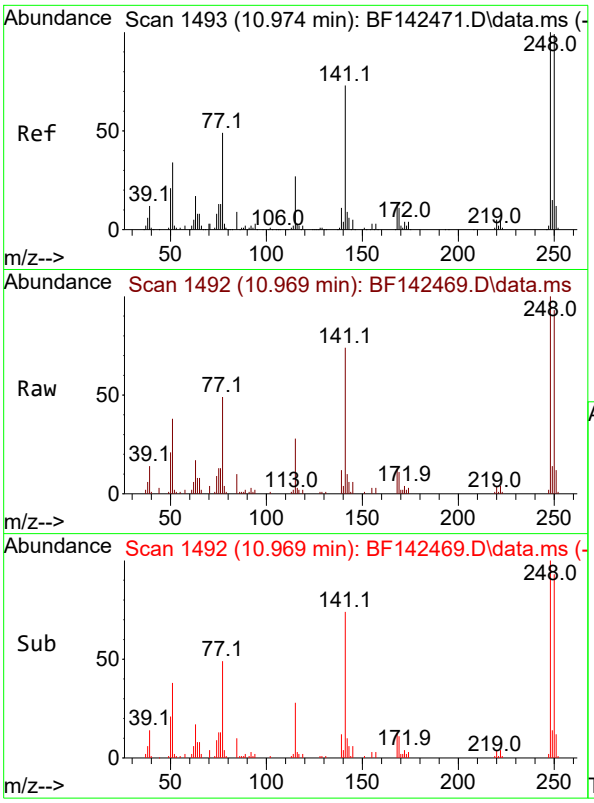


#66
n-Nitrosodiphenylamine
Concen: 9.961 ng
RT: 10.592 min Scan# 1428
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:169 Resp: 121959

Ion	Ratio	Lower	Upper
169	100		
168	66.0	52.7	79.1
167	35.8	28.3	42.5



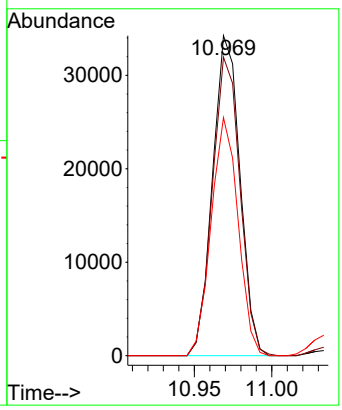


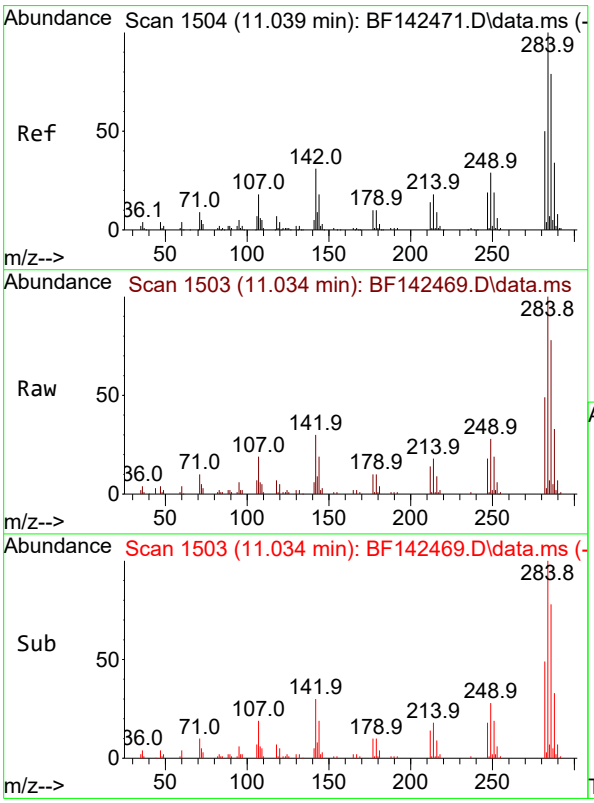
#67
4-Bromophenyl-phenylether
Concen: 9.939 ng
RT: 10.969 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:248 Resp: 42057

Ion	Ratio	Lower	Upper
248	100		
250	93.3	79.0	118.4
141	74.4	58.4	87.6

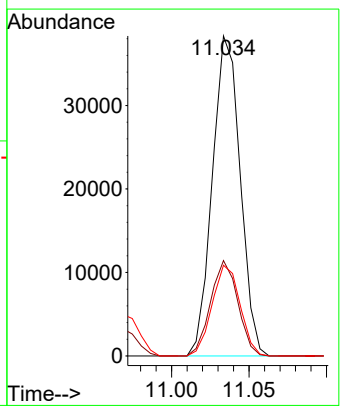


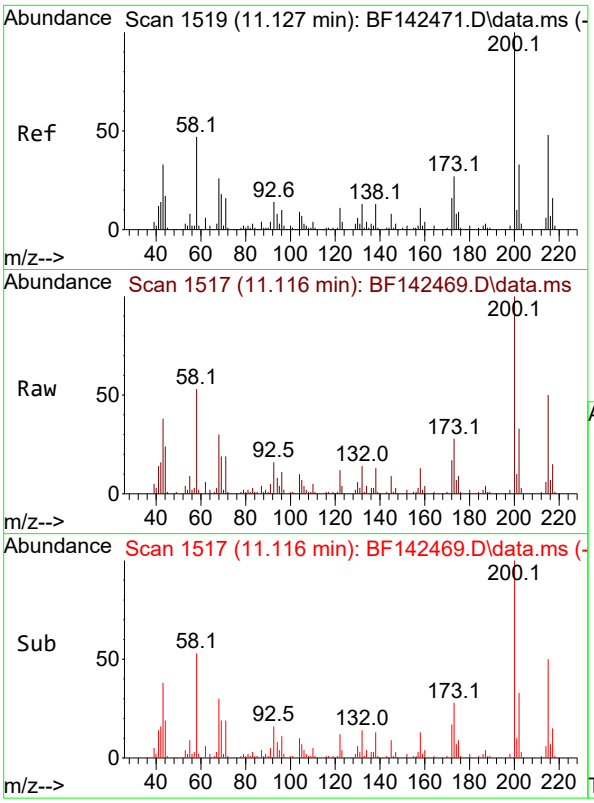


#68
Hexachlorobenzene
Concen: 10.207 ng
RT: 11.034 min Scan# 1503
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:284 Resp: 47773

Ion	Ratio	Lower	Upper
284	100		
142	29.8	24.8	37.2
249	28.4	23.6	35.4



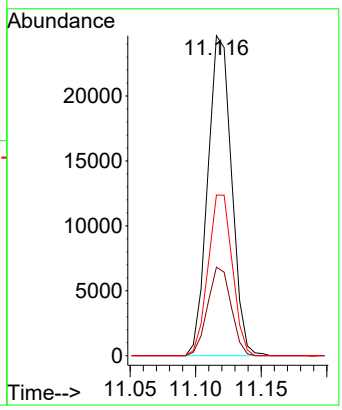


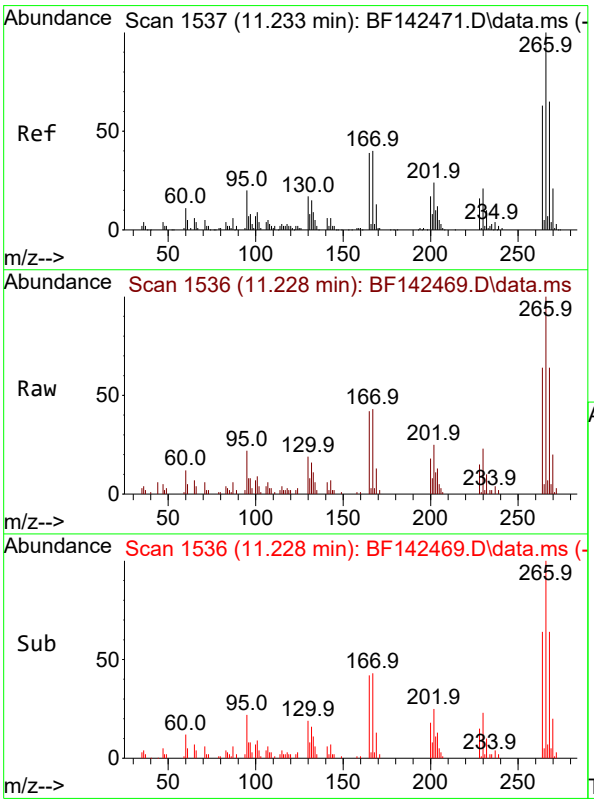
#69
Atrazine
Concen: 9.591 ng
RT: 11.116 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:200 Resp: 31184

Ion	Ratio	Lower	Upper
200	100		
173	27.7	7.4	47.4
215	50.2	28.5	68.5

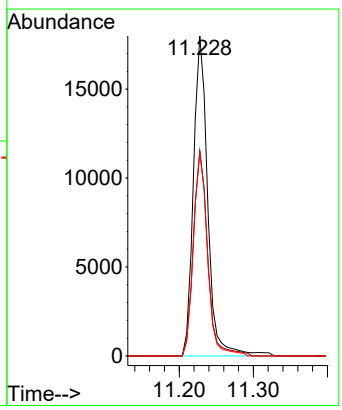


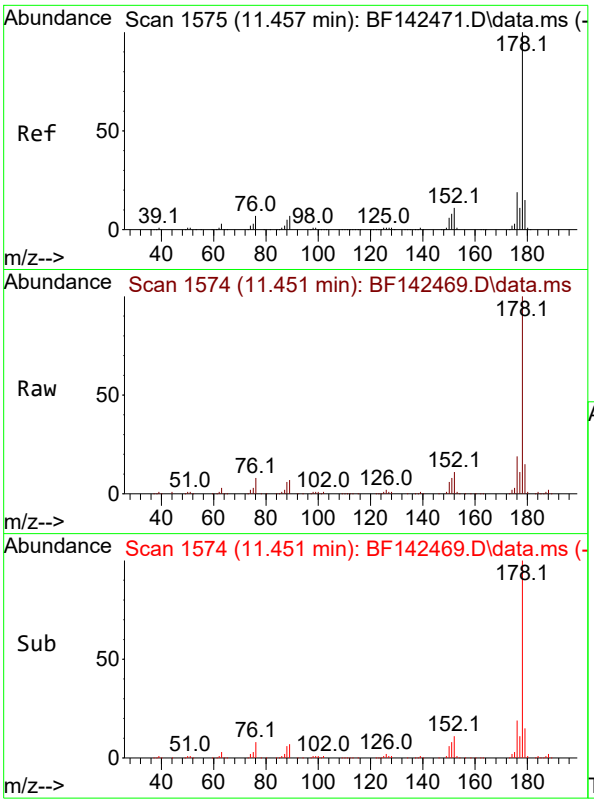


#70
Pentachlorophenol
Concen: 9.126 ng
RT: 11.228 min Scan# 1536
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:266 Resp: 24115

Ion	Ratio	Lower	Upper
266	100		
268	63.9	51.7	77.5
264	63.7	50.4	75.6



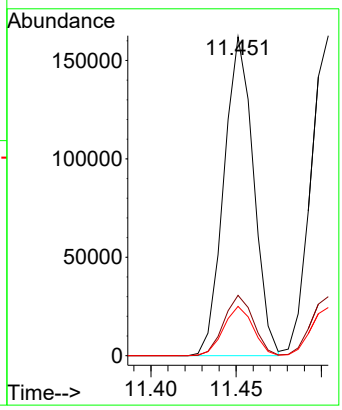


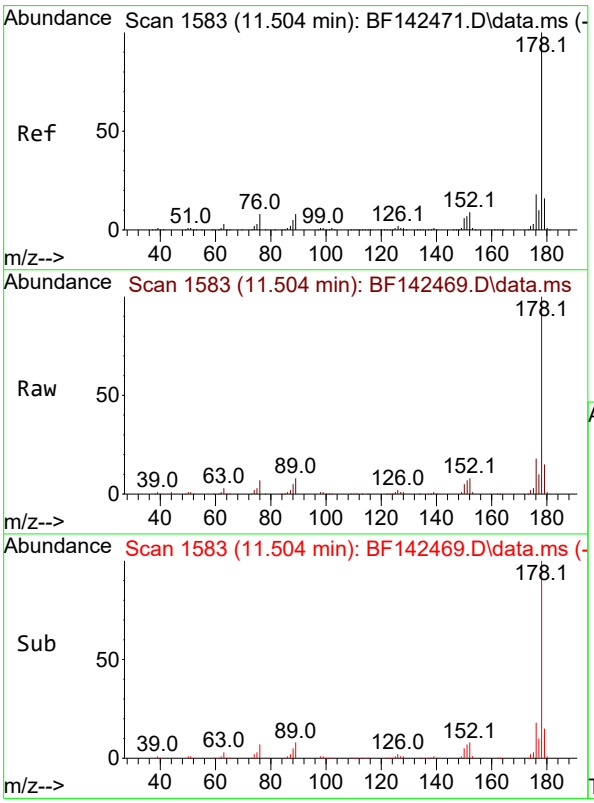
#71
Phenanthrene
Concen: 10.231 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:178 Resp: 195667

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.0
179	15.5	12.3	18.5

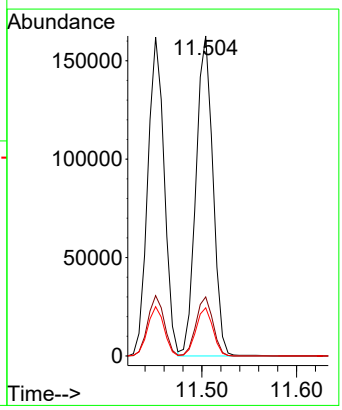


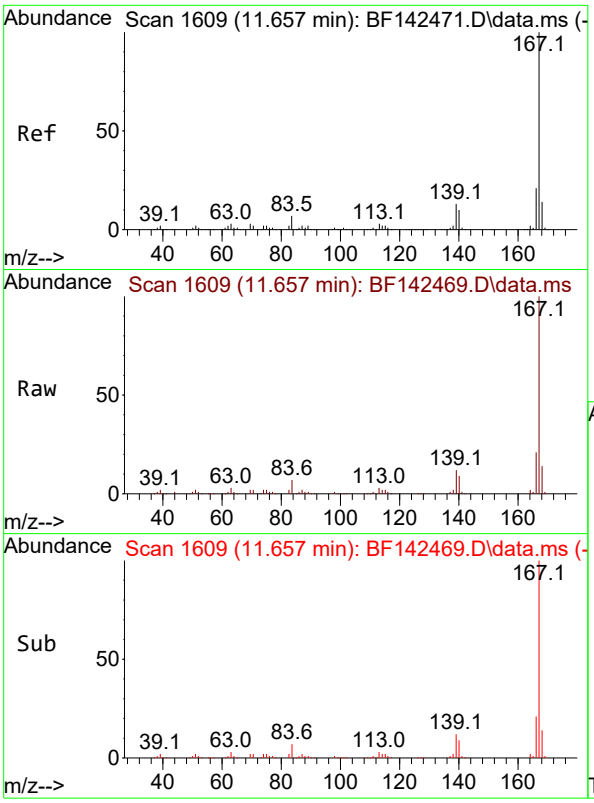


#72
Anthracene
Concen: 10.375 ng
RT: 11.504 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:178 Resp: 202509

Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.6	21.8
179	15.0	12.4	18.6



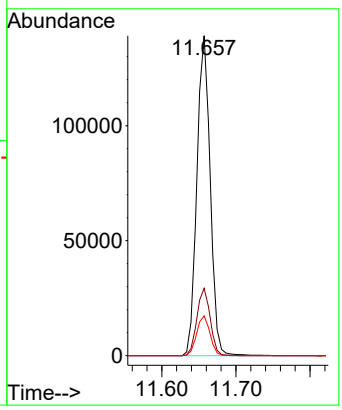


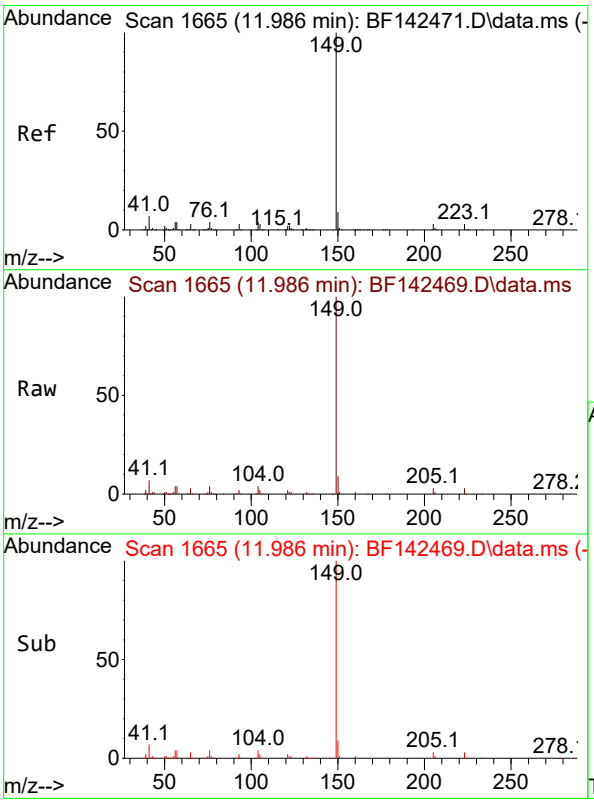
#73
Carbazole
Concen: 10.381 ng
RT: 11.657 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:167 Resp: 173217

Ion	Ratio	Lower	Upper
167	100		
166	21.0	16.9	25.3
139	12.5	10.2	15.4

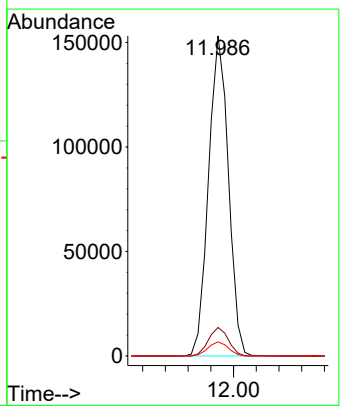


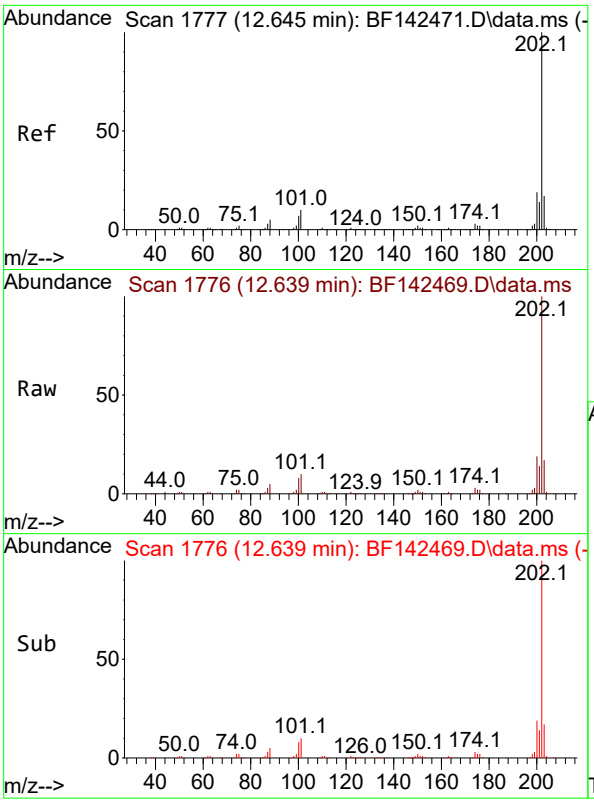


#74
Di-n-butylphthalate
Concen: 10.177 ng
RT: 11.986 min Scan# 1665
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:149 Resp: 185880

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.3	10.9
104	4.4	3.6	5.4



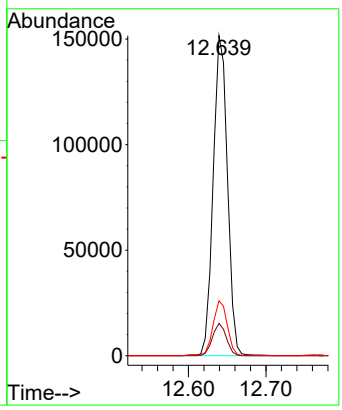


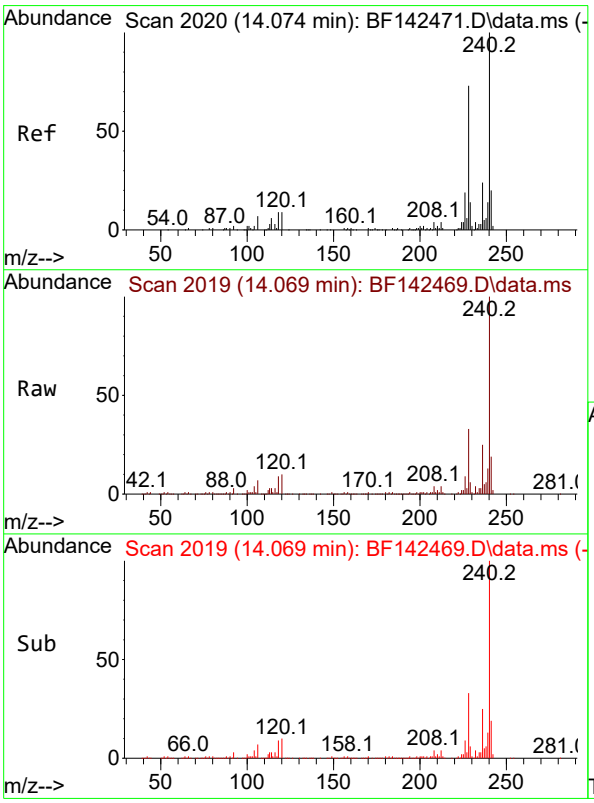
#75
Fluoranthene
Concen: 10.825 ng
RT: 12.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:202 Resp: 193456

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	29.6
203	17.2	0.0	37.2

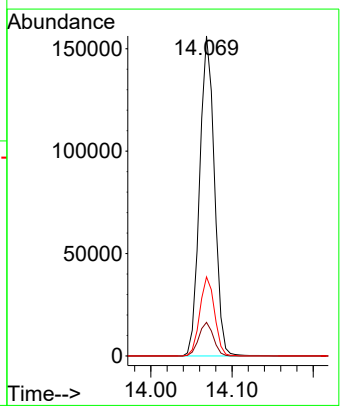


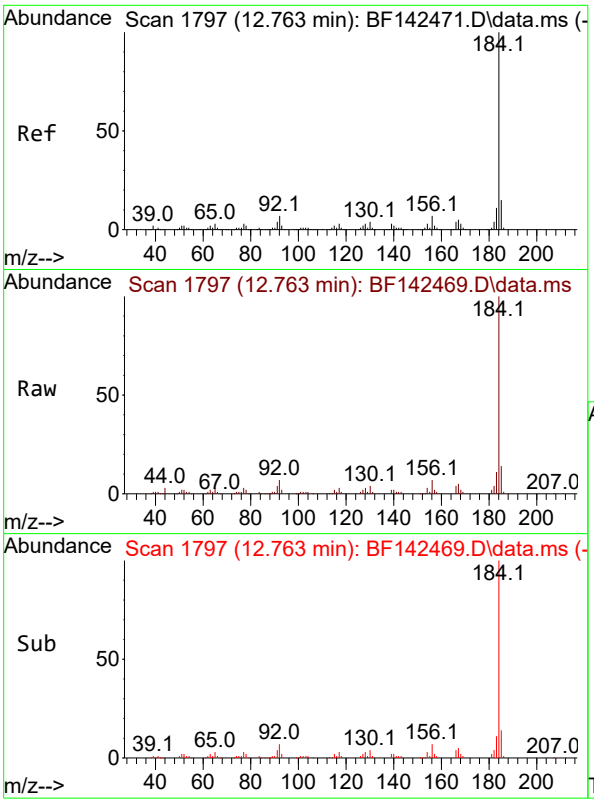


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:240 Resp: 197144

Ion	Ratio	Lower	Upper
240	100		
120	10.5	7.5	11.3
236	24.7	19.6	29.4



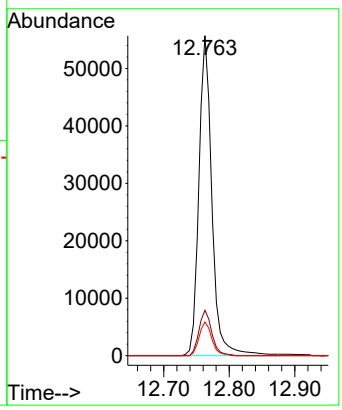


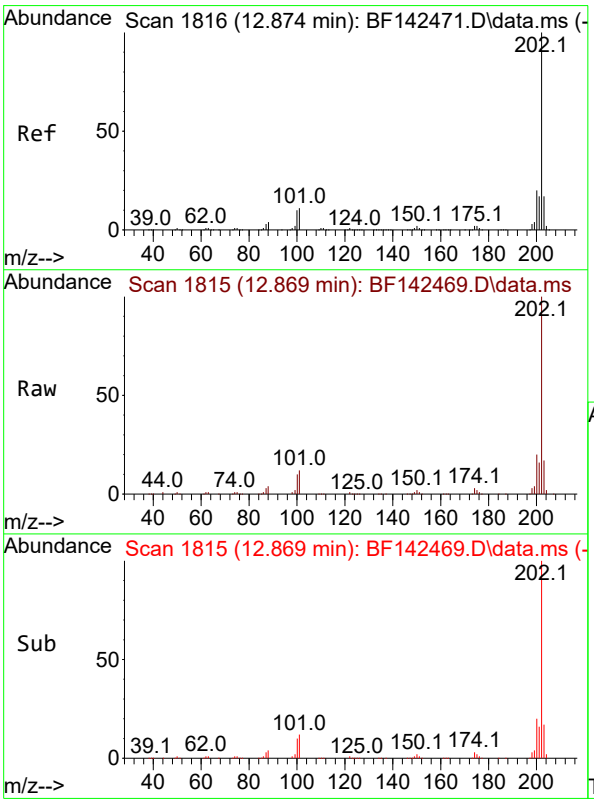
#77
Benzidine
Concen: 10.508 ng
RT: 12.763 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:184 Resp: 77091

Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.6	17.4
183	10.6	9.0	13.4

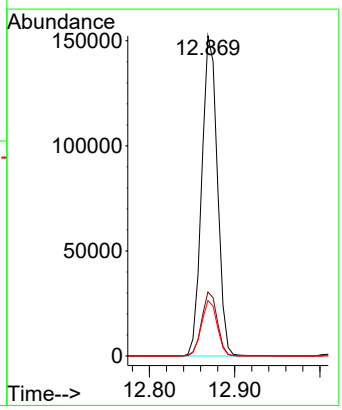


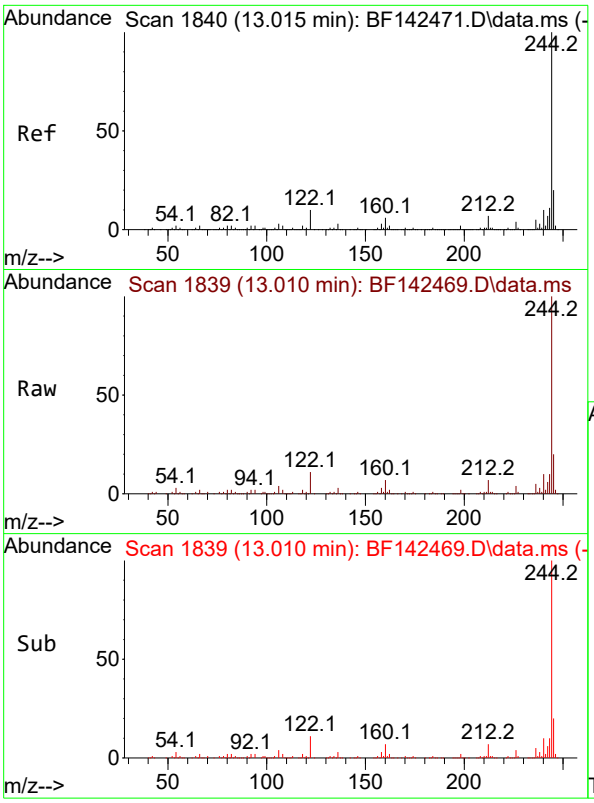


#78
Pyrene
Concen: 10.540 ng
RT: 12.869 min Scan# 1815
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:202 Resp: 193842

Ion	Ratio	Lower	Upper
202	100		
200	20.0	16.1	24.1
203	17.3	13.9	20.9



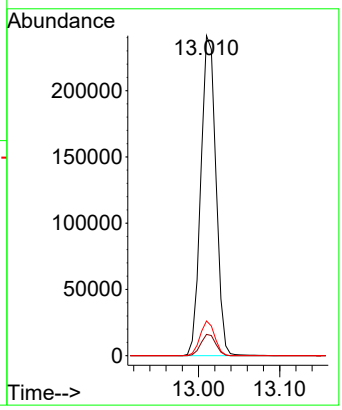


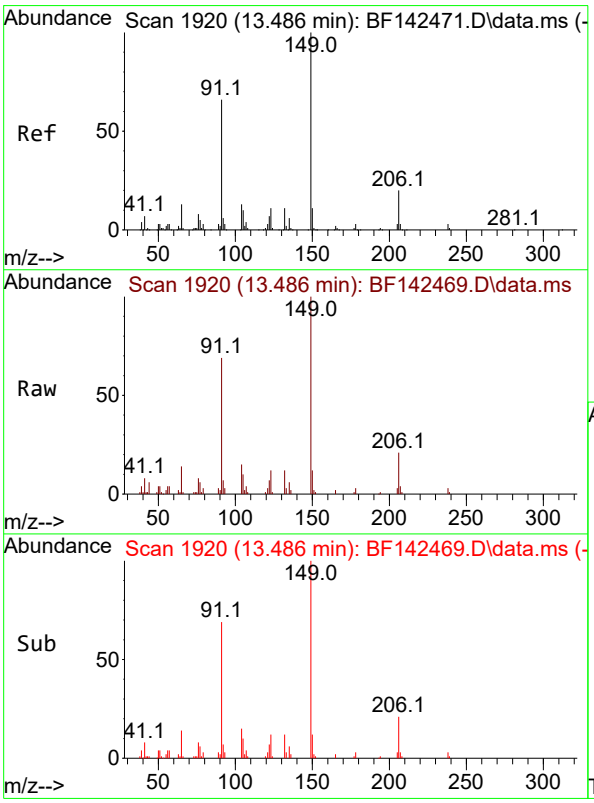
#79
Terphenyl-d14
Concen: 21.612 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:244 Resp: 311785

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.3	7.9
122	10.9	8.2	12.2

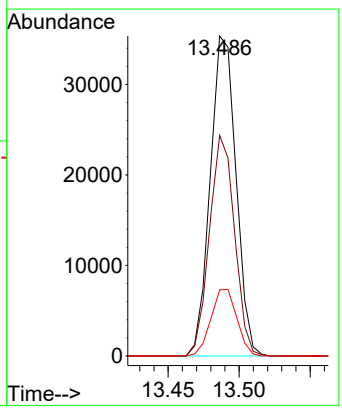


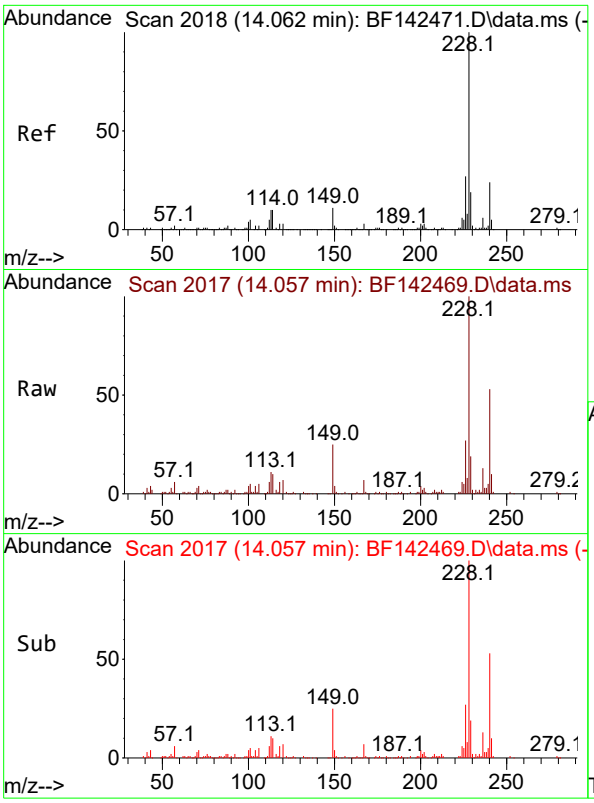


#80
Butylbenzylphthalate
Concen: 8.793 ng
RT: 13.486 min Scan# 1920
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:149 Resp: 44682

Ion	Ratio	Lower	Upper
149	100		
91	69.0	52.9	79.3
206	20.6	16.2	24.2



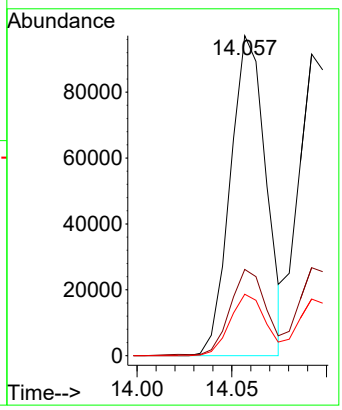


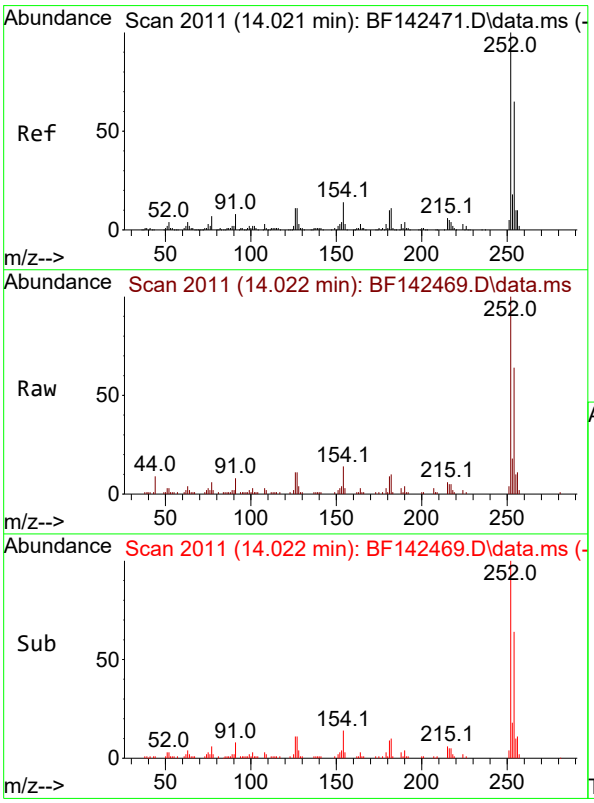
#81
Benzo(a)anthracene
Concen: 9.639 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 126886

Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.2	31.8
229	19.2	15.5	23.3

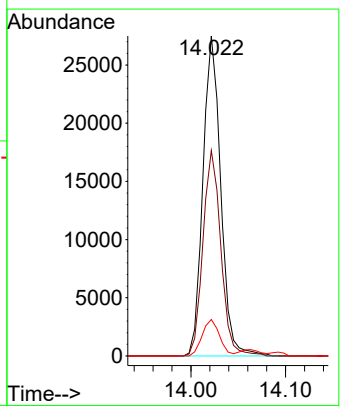


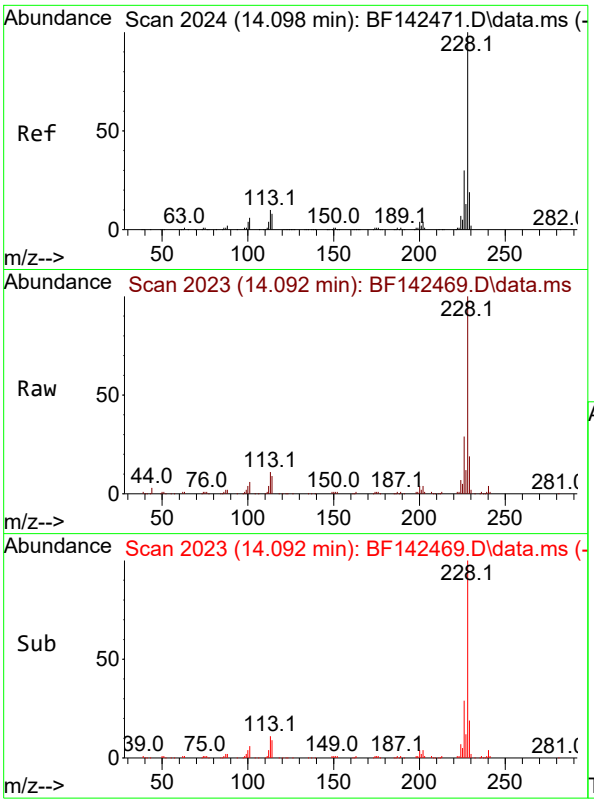


#82
3,3'-Dichlorobenzidine
Concen: 8.977 ng
RT: 14.022 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:252 Resp: 35845

Ion	Ratio	Lower	Upper
252	100		
254	64.2	52.0	78.0
126	11.4	8.9	13.3



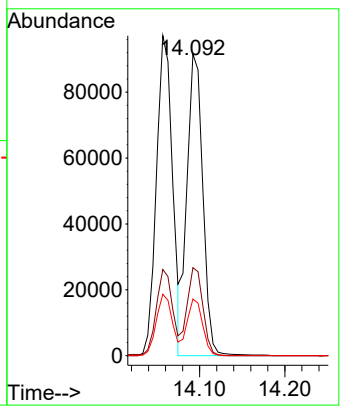


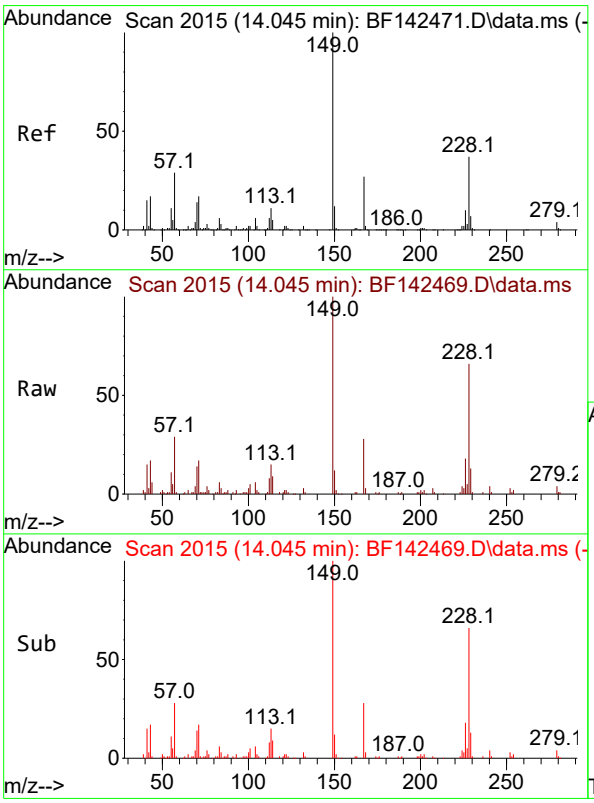
#83
Chrysene
Concen: 10.032 ng
RT: 14.092 min Scan# 2(
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 118674

Ion	Ratio	Lower	Upper
228	100		
226	29.2	23.8	35.6
229	18.8	15.4	23.2

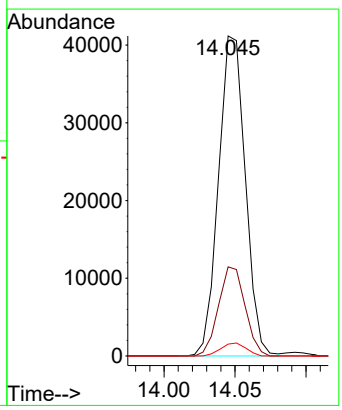


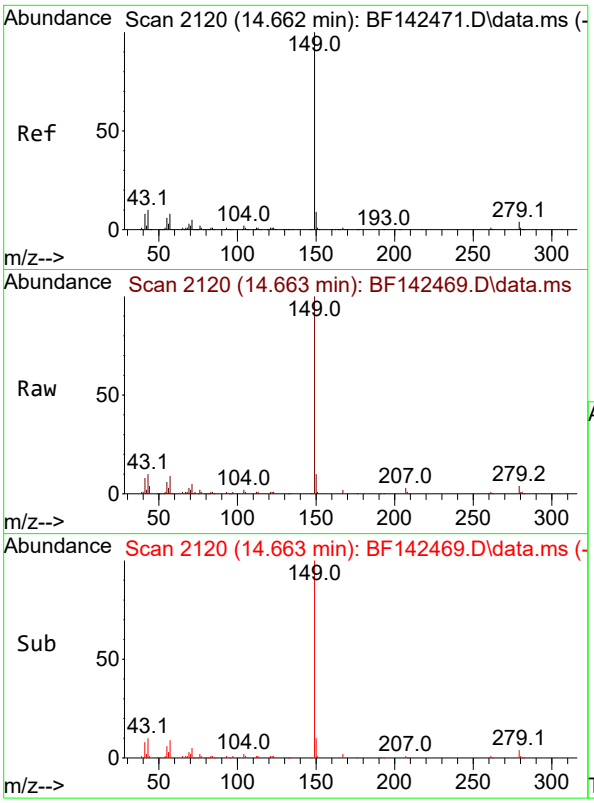


#84
Bis(2-ethylhexyl)phthalate
Concen: 8.310 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:149 Resp: 54056

Ion	Ratio	Lower	Upper
149	100		
167	27.8	21.5	32.3
279	3.7	3.2	4.8



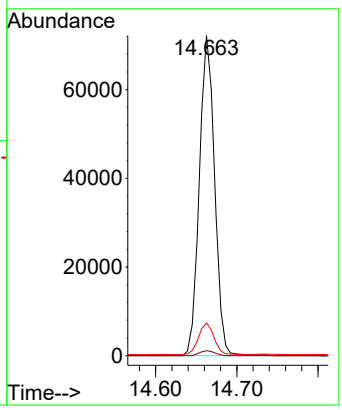


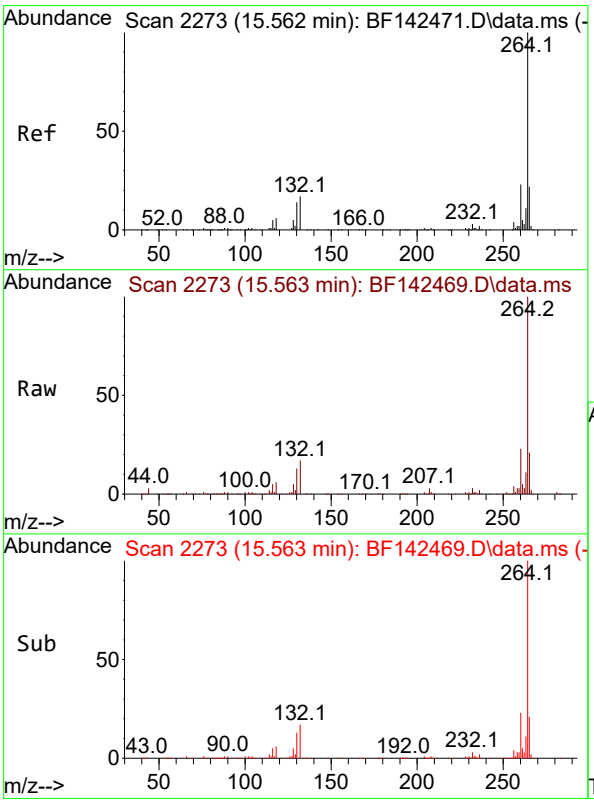
#85
Di-n-octyl phthalate
Concen: 7.425 ng
RT: 14.663 min Scan# 21
Delta R.T. -0.005 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:149 Resp: 94445

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	9.8	7.9	11.9

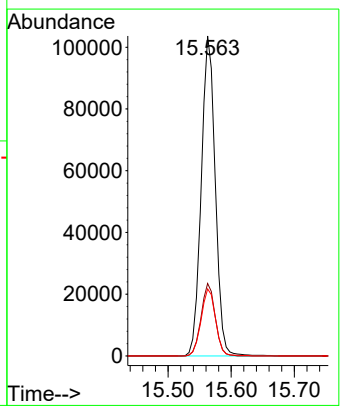


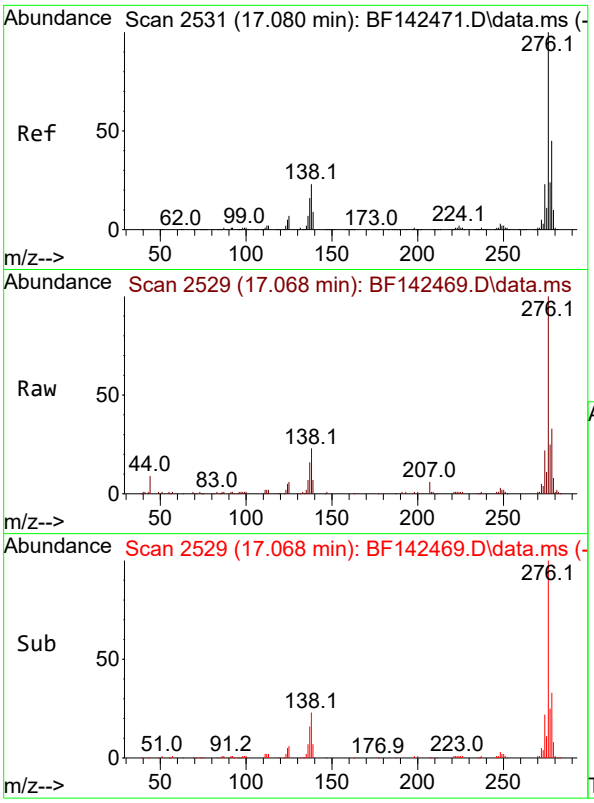


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:264 Resp: 160066

Ion	Ratio	Lower	Upper
264	100		
260	22.6	18.6	28.0
265	20.9	17.7	26.5



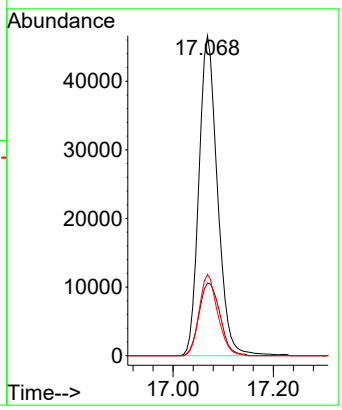


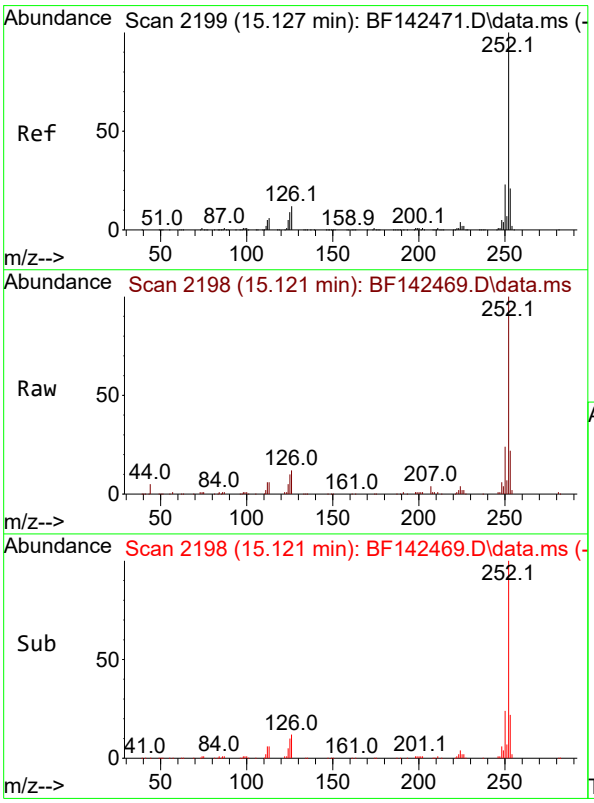
#87
Indeno(1,2,3-cd)pyrene
Concen: 9.956 ng
RT: 17.068 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:276 Resp: 119642

Ion	Ratio	Lower	Upper
276	100		
138	25.8	19.9	29.9
277	25.3	20.2	30.2

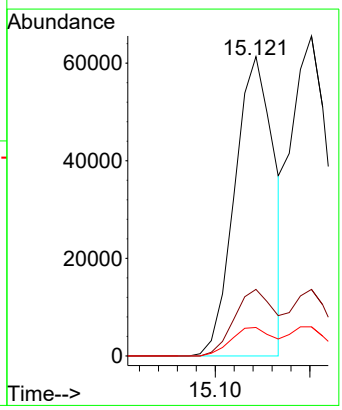


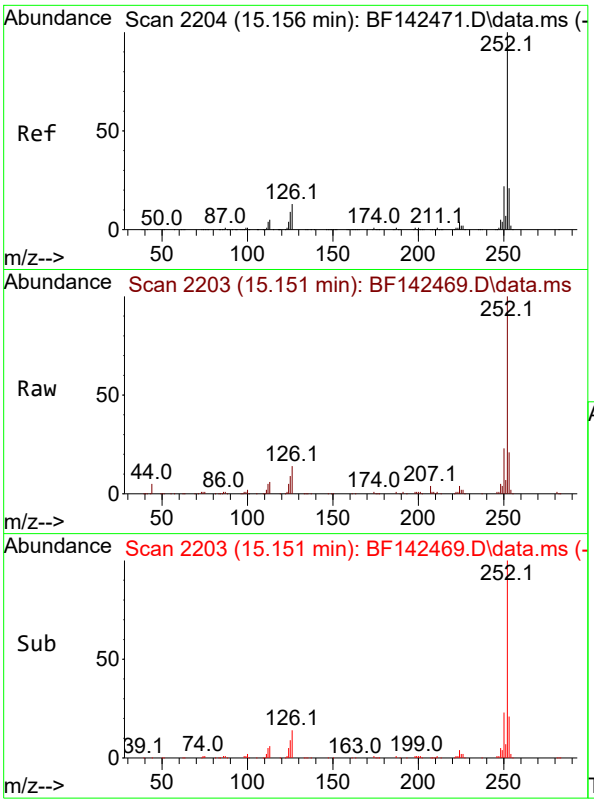


#88
Benzo(b)fluoranthene
Concen: 9.335 ng
RT: 15.121 min Scan# 2198
Delta R.T. -0.006 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:252 Resp: 88432

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.0	25.4
125	9.5	7.4	11.0



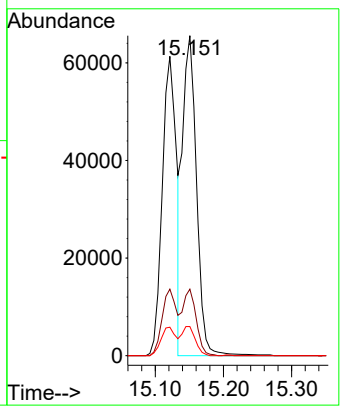


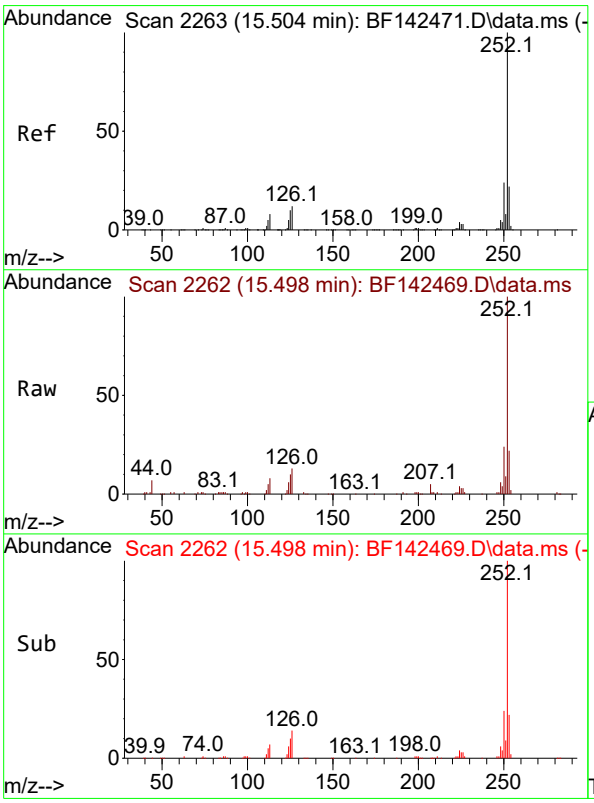
#89
Benzo(k)fluoranthene
Concen: 10.517 ng
RT: 15.151 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:252 Resp: 93315

Ion	Ratio	Lower	Upper
252	100		
253	20.8	17.0	25.4
125	9.1	7.3	10.9

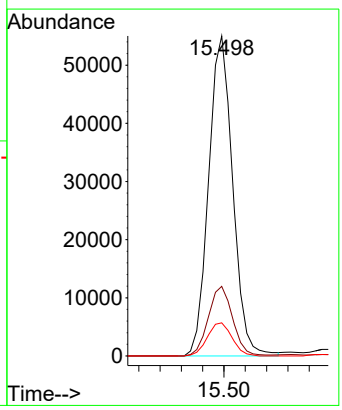


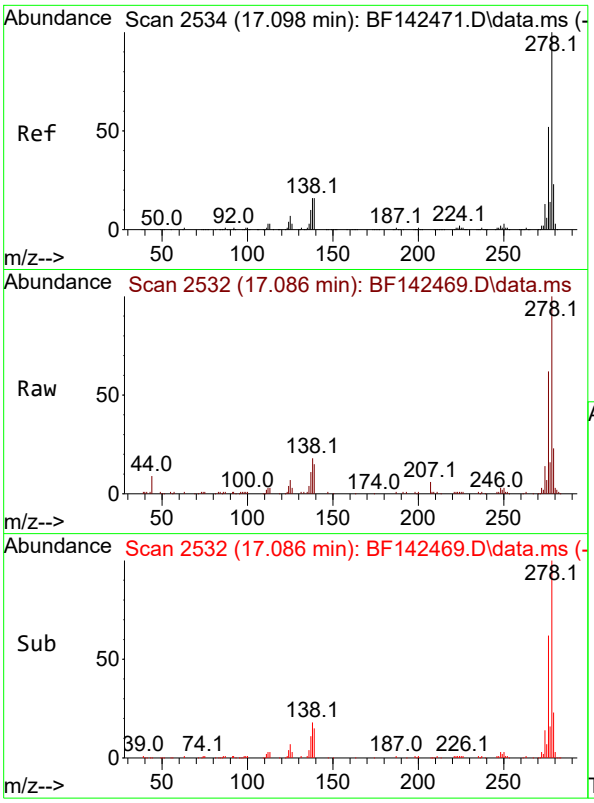


#90
Benzo(a)pyrene
Concen: 9.684 ng
RT: 15.498 min Scan# 2262
Delta R.T. -0.012 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:252 Resp: 86477

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0
125	10.4	7.9	11.9



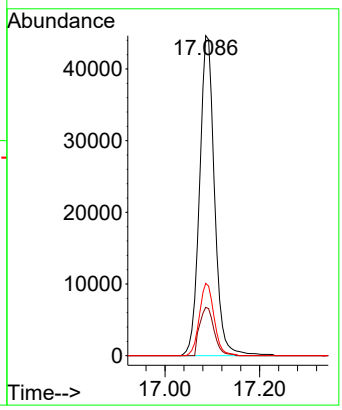


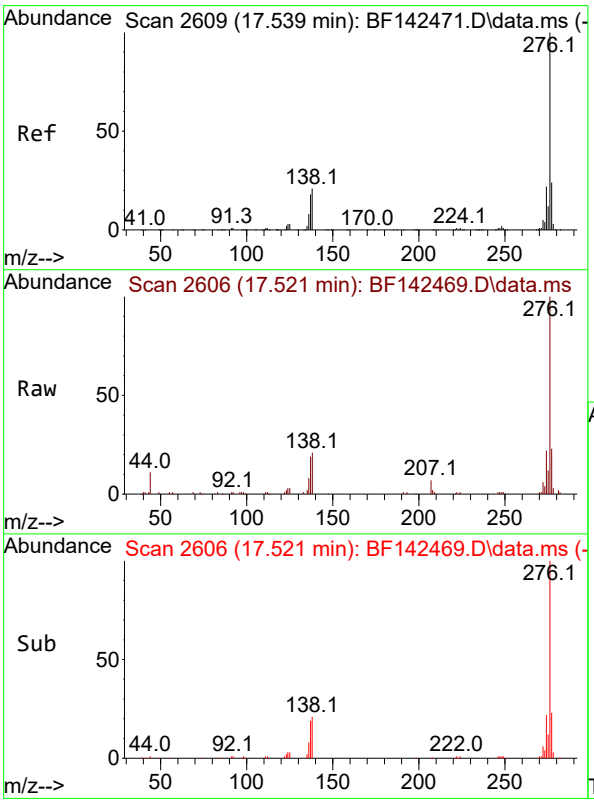
#91
Dibenzo(a,h)anthracene
Concen: 10.087 ng
RT: 17.086 min Scan# 2
Delta R.T. -0.029 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:278 Resp: 98308

Ion	Ratio	Lower	Upper
278	100		
139	15.1	12.8	19.2
279	22.6	18.6	28.0

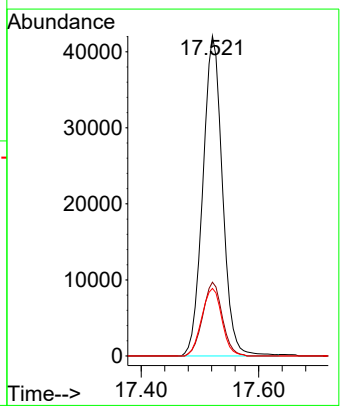




#92
Benzo(g,h,i)perylene
Concen: 10.016 ng
RT: 17.521 min Scan# 2606
Delta R.T. -0.035 min
Lab File: BF142469.D
Acq: 20 May 2025 13:07

Tgt Ion:276 Resp: 97640

Ion	Ratio	Lower	Upper
276	100		
277	23.0	19.2	28.8
138	21.1	16.8	25.2



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142470.D
Acq On : 20 May 2025 13:36
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: May 20 16:55:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	94619	20.000	ng	0.00
21) Naphthalene-d8	8.187	136	367495	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	204113	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	353003	20.000	ng	0.00
76) Chrysene-d12	14.068	240	179495	20.000	ng	0.00
86) Perylene-d12	15.563	264	165092	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	231731	41.261	ng	-0.01
7) Phenol-d6	6.516	99	276122	40.843	ng	-0.02
23) Nitrobenzene-d5	7.463	82	278514	41.326	ng	-0.01
42) 2,4,6-Tribromophenol	10.728	330	95535	42.171	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	635813	41.799	ng	-0.01
79) Terphenyl-d14	13.016	244	596097	45.382	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.669	88	44822	19.944	ng	99
3) Pyridine	3.440	79	114685	20.039	ng	99
4) n-Nitrosodimethylamine	3.375	42	59347	19.972	ng	99
6) Aniline	6.557	93	185773	20.437	ng	99
8) 2-Chlorophenol	6.681	128	124465	20.347	ng	99
9) Benzaldehyde	6.451	77	91686	22.548	ng	99
10) Phenol	6.534	94	155782	20.479	ng	98
11) bis(2-Chloroethyl)ether	6.634	93	110538	20.187	ng	99
12) 1,3-Dichlorobenzene	6.840	146	139347	20.414	ng	100
13) 1,4-Dichlorobenzene	6.916	146	141061	20.515	ng	99
14) 1,2-Dichlorobenzene	7.069	146	135845	20.647	ng	99
15) Benzyl Alcohol	7.034	79	100072	20.030	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.175	45	187668	20.408	ng	100
17) 2-Methylphenol	7.145	107	97077	20.326	ng	99
18) Hexachloroethane	7.416	117	49500	20.617	ng	98
19) n-Nitroso-di-n-propyla...	7.304	70	85172	20.328	ng	99
20) 3+4-Methylphenols	7.298	107	126511	20.685	ng	95
22) Acetophenone	7.304	105	168730	20.741	ng	99
24) Nitrobenzene	7.481	77	124202	20.433	ng	99
25) Isophorone	7.716	82	227891	20.225	ng	100
26) 2-Nitrophenol	7.798	139	66130	20.361	ng	100
27) 2,4-Dimethylphenol	7.828	122	116913	20.412	ng	98
28) bis(2-Chloroethoxy)met...	7.928	93	144952	20.593	ng	98
29) 2,4-Dichlorophenol	8.034	162	106584	20.462	ng	99
30) 1,2,4-Trichlorobenzene	8.122	180	116666	20.638	ng	97
31) Naphthalene	8.204	128	374799	20.713	ng	100
32) Benzoic acid	7.910	122	64801	18.586	ng	99
33) 4-Chloroaniline	8.251	127	152901	20.853	ng	99
34) Hexachlorobutadiene	8.322	225	72441	20.523	ng	99
35) Caprolactam	8.598	113	30374	20.762	ng	98
36) 4-Chloro-3-methylphenol	8.728	107	109793	20.567	ng	97
37) 2-Methylnaphthalene	8.898	142	237350	20.849	ng	98
38) 1-Methylnaphthalene	8.998	142	246831	20.961	ng	99
40) 1,2,4,5-Tetrachloroben...	9.063	216	119980	20.477	ng	100
41) Hexachlorocyclopentadiene	9.051	237	78243	19.796	ng	99
43) 2,4,6-Trichlorophenol	9.169	196	82857	20.971	ng	96

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142470.D
Acq On : 20 May 2025 13:36
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: May 20 16:55:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	84935	20.383	ng		98
46) 1,1'-Biphenyl	9.363	154	325474	20.553	ng		99
47) 2-Chloronaphthalene	9.386	162	240148	20.526	ng		98
48) 2-Nitroaniline	9.475	65	69068	20.424	ng		97
49) Acenaphthylene	9.804	152	413782	20.945	ng		100
50) Dimethylphthalate	9.657	163	279113	20.724	ng		100
51) 2,6-Dinitrotoluene	9.716	165	59031	20.308	ng		97
52) Acenaphthene	9.975	154	250487	20.764	ng		98
53) 3-Nitroaniline	9.886	138	66847	21.055	ng		99
54) 2,4-Dinitrophenol	9.992	184	27863	18.553	ng	#	70
55) Dibenzofuran	10.145	168	360936	20.792	ng		99
56) 4-Nitrophenol	10.039	139	49352	21.067	ng		99
57) 2,4-Dinitrotoluene	10.122	165	79063	20.827	ng		99
58) Fluorene	10.486	166	279994	20.878	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.263	232	73538	21.140	ng		99
60) Diethylphthalate	10.357	149	277325	21.084	ng		99
61) 4-Chlorophenyl-phenyle...	10.480	204	137985	20.944	ng		99
62) 4-Nitroaniline	10.498	138	61856	21.481	ng		98
63) Azobenzene	10.639	77	242545	20.530	ng		99
65) 4,6-Dinitro-2-methylph...	10.528	198	38757	19.673	ng		97
66) n-Nitrosodiphenylamine	10.598	169	245739	20.348	ng		98
67) 4-Bromophenyl-phenylether	10.975	248	84406	20.222	ng		96
68) Hexachlorobenzene	11.039	284	92803	20.102	ng		98
69) Atrazine	11.122	200	65656	20.471	ng		99
70) Pentachlorophenol	11.227	266	52525	20.152	ng		99
71) Phenanthrene	11.451	178	388317	20.584	ng		100
72) Anthracene	11.504	178	396704	20.604	ng		99
73) Carbazole	11.657	167	346558	21.055	ng		99
74) Di-n-butylphthalate	11.986	149	382324	21.221	ng		100
75) Fluoranthene	12.639	202	371226	21.059	ng		99
77) Benzidine	12.763	184	162031	24.258	ng		99
78) Pyrene	12.869	202	370789	22.144	ng		99
80) Butylbenzylphthalate	13.486	149	94290	20.379	ng		99
81) Benzo(a)anthracene	14.057	228	251858	21.013	ng		100
82) 3,3'-Dichlorobenzidine	14.021	252	72218	19.865	ng		99
83) Chrysene	14.098	228	214213	19.890	ng		99
84) Bis(2-ethylhexyl)phtha...	14.045	149	111015	18.743	ng		100
85) Di-n-octyl phthalate	14.663	149	198800	17.166	ng		100
87) Indeno(1,2,3-cd)pyrene	17.074	276	261271	21.080	ng		99
88) Benzo(b)fluoranthene	15.121	252	213487	21.849	ng		99
89) Benzo(k)fluoranthene	15.151	252	170316	18.611	ng		100
90) Benzo(a)pyrene	15.498	252	183983	19.976	ng		99
91) Dibenzo(a,h)anthracene	17.092	278	210557	20.946	ng		99
92) Benzo(g,h,i)perylene	17.527	276	209719	20.859	ng		98

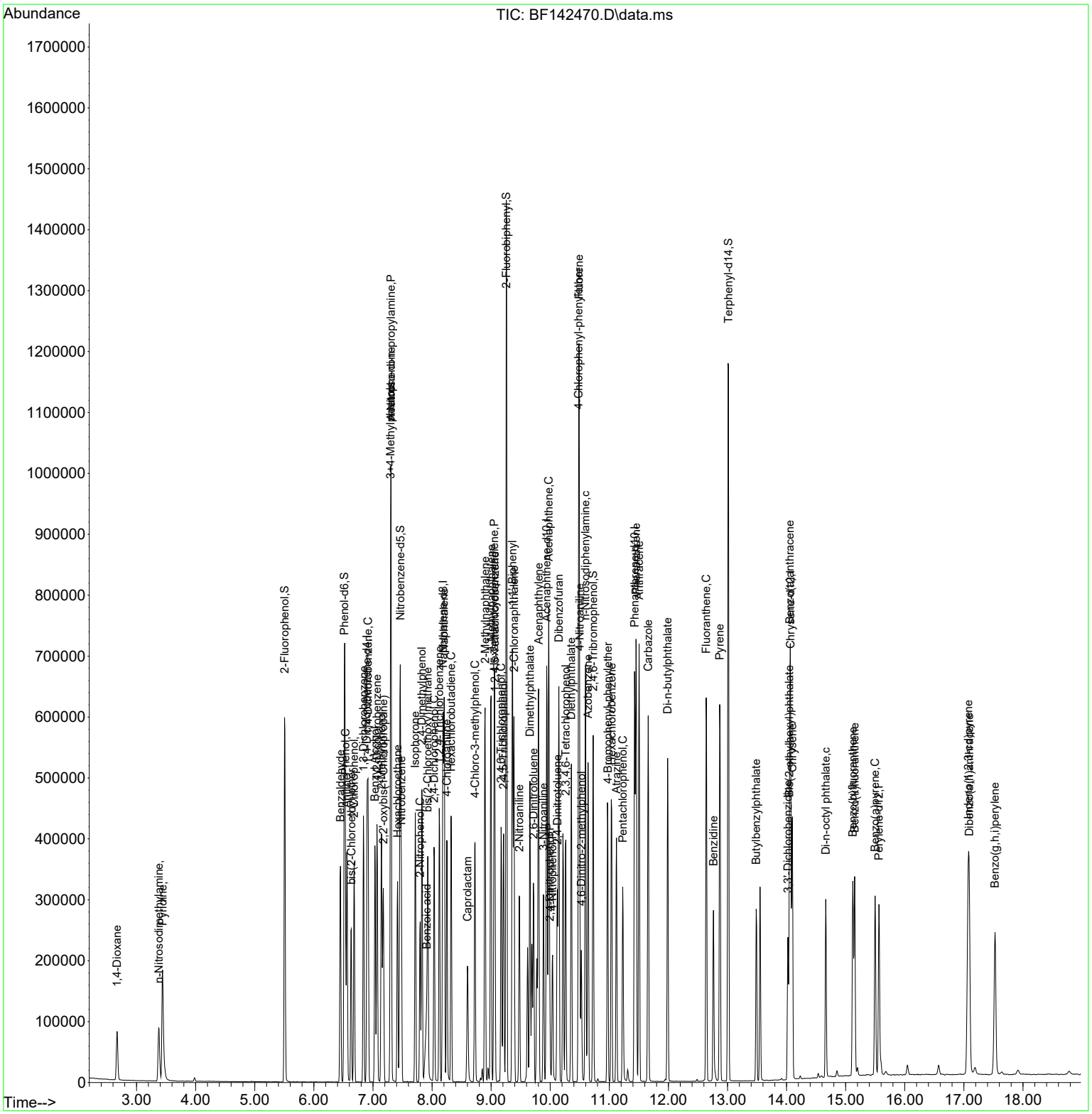
(#) = qualifier out of range (m) = manual integration (+) = signals summed

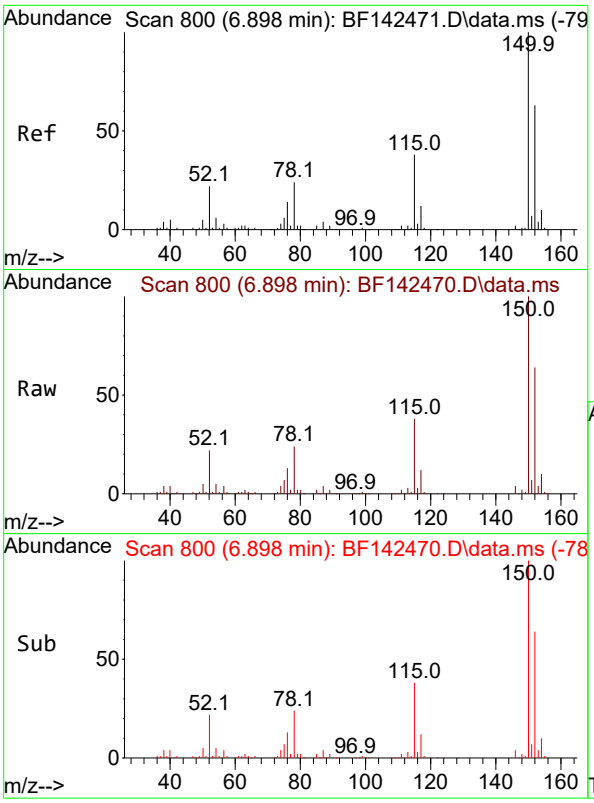
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142470.D
Acq On : 20 May 2025 13:36
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: May 20 16:55:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



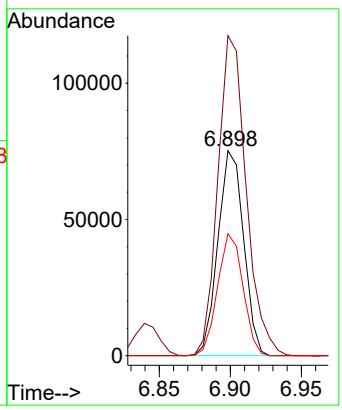


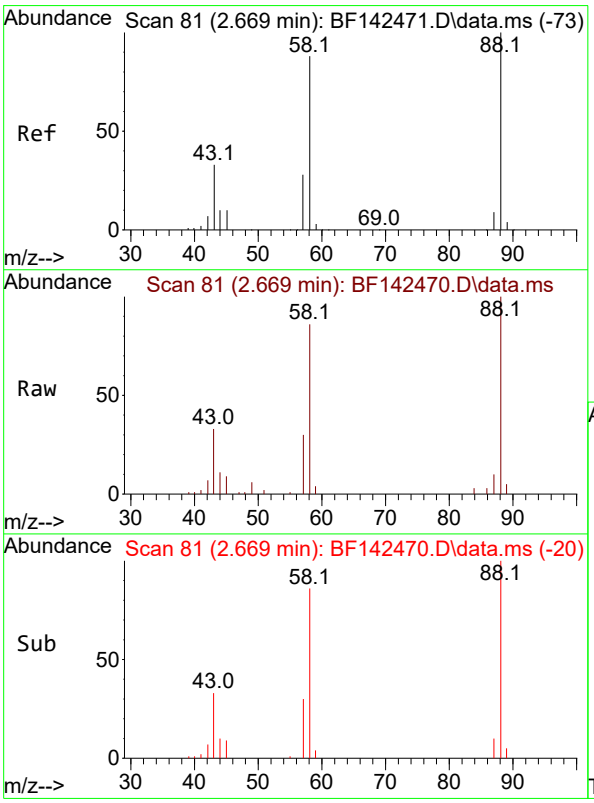
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 94619

Ion	Ratio	Lower	Upper
152	100		
150	156.2	128.2	192.4
115	59.5	48.3	72.5

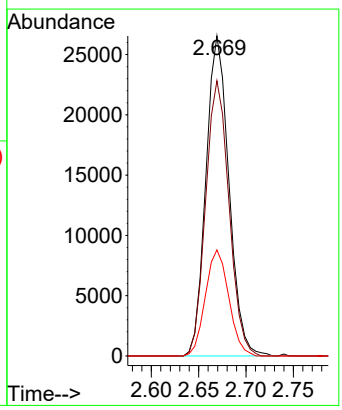


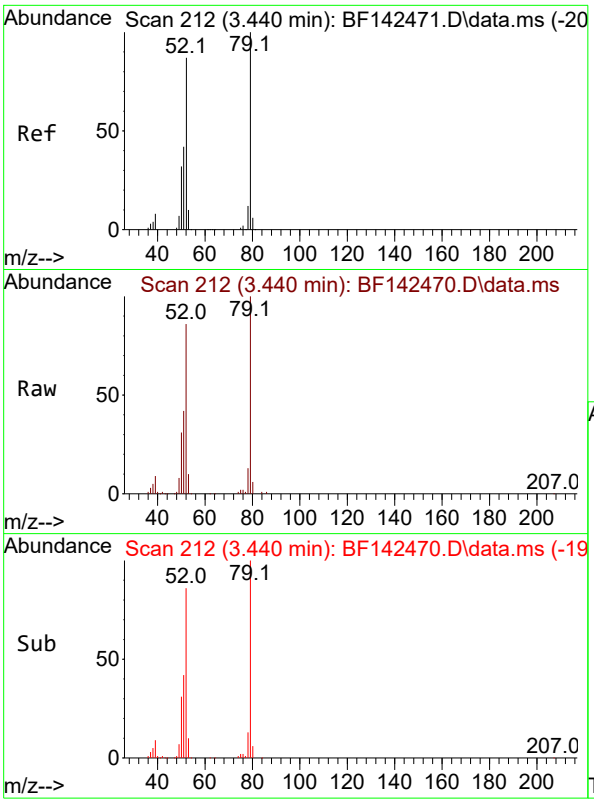


#2
1,4-Dioxane
Concen: 19.944 ng
RT: 2.669 min Scan# 81
Delta R.T. 0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion: 88 Resp: 44822

Ion	Ratio	Lower	Upper
88	100		
58	87.2	70.8	106.2
43	33.7	26.6	40.0



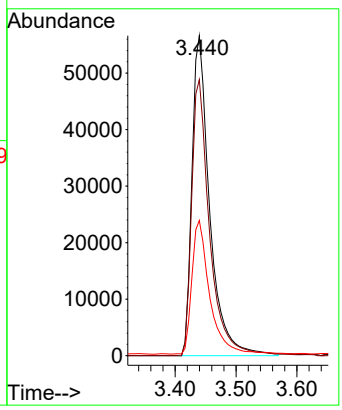


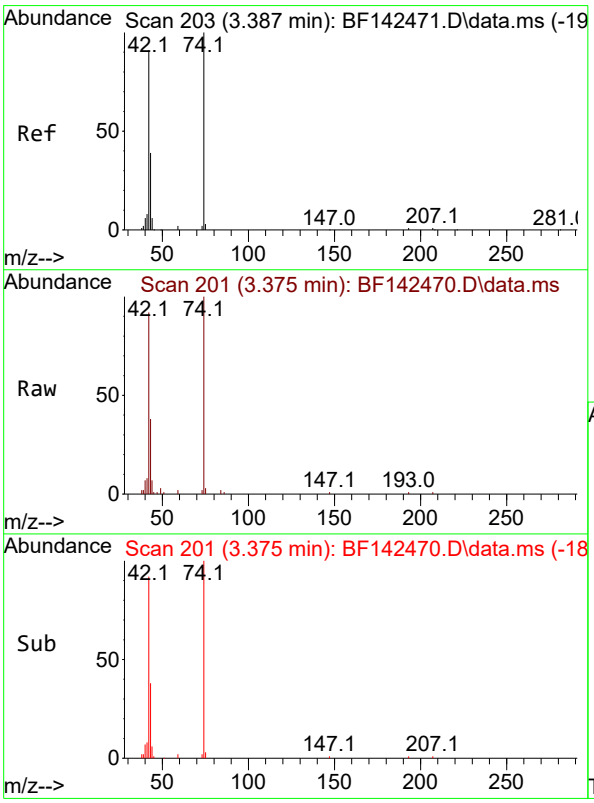
#3
Pyridine
Concen: 20.039 ng
RT: 3.440 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 114685

Ion	Ratio	Lower	Upper
79	100		
52	86.3	69.2	103.8
51	42.3	33.3	49.9

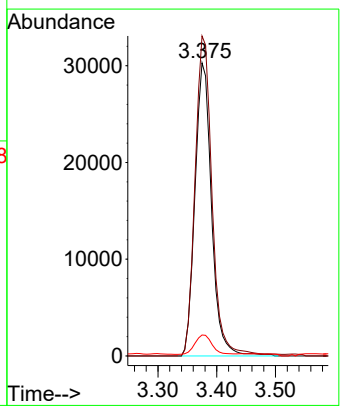


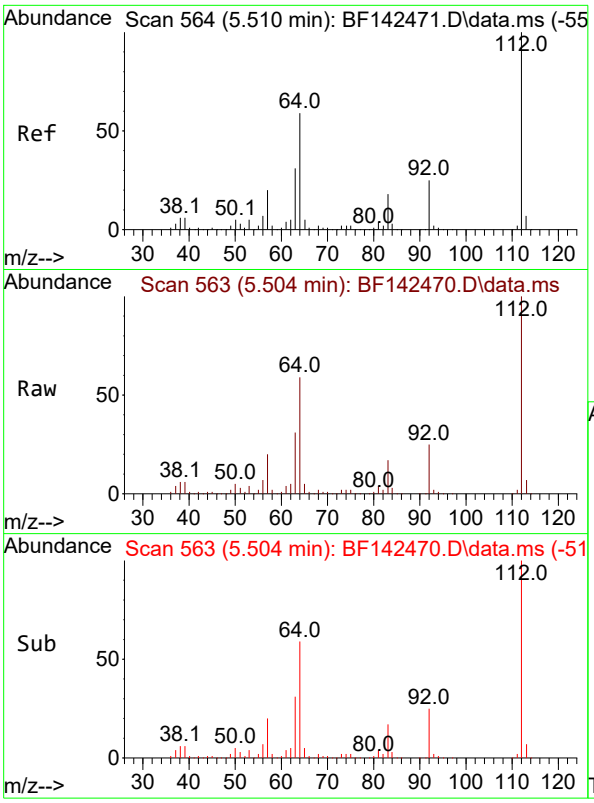


#4
n-Nitrosodimethylamine
Concen: 19.972 ng
RT: 3.375 min Scan# 201
Delta R.T. -0.029 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion: 42 Resp: 59347

Ion	Ratio	Lower	Upper
42	100		
74	109.2	88.2	132.4
44	7.2	5.4	8.2



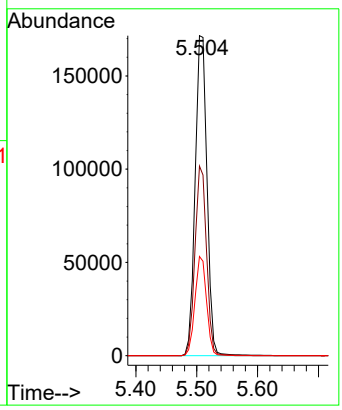


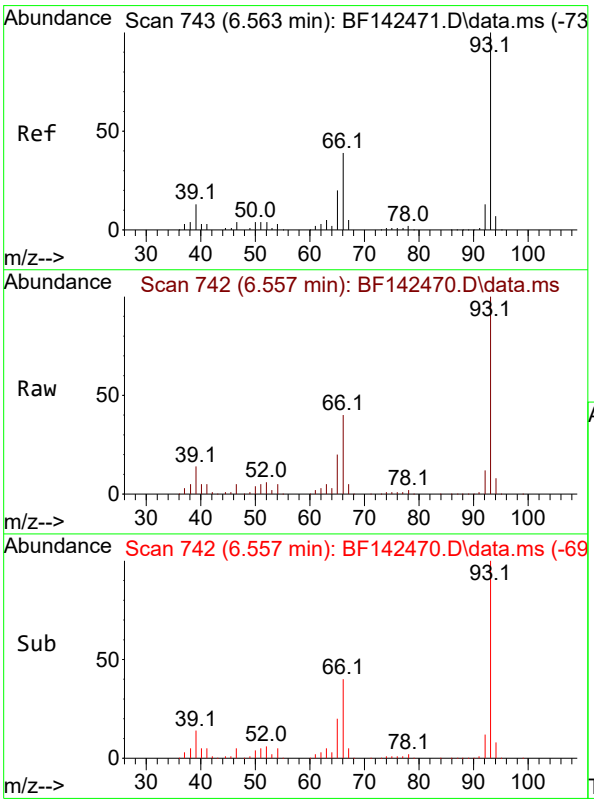
#5
2-Fluorophenol
Concen: 41.261 ng
RT: 5.504 min Scan# 5
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:112 Resp: 231731

Ion	Ratio	Lower	Upper
112	100		
64	59.3	47.5	71.3
63	31.0	24.9	37.3

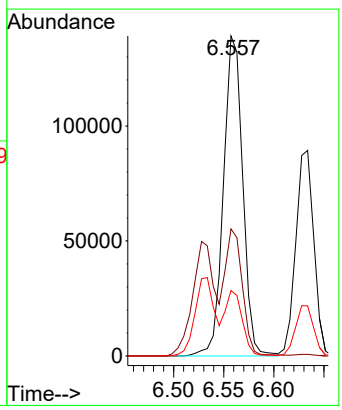


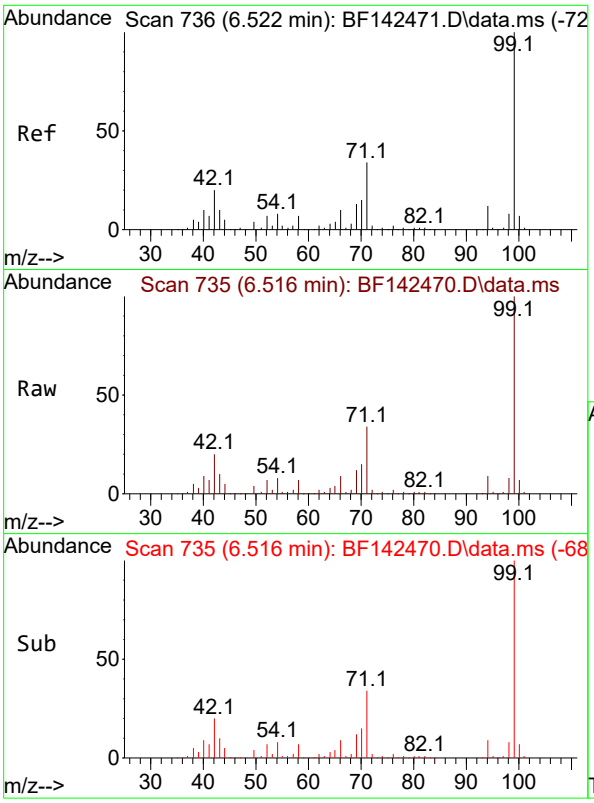


#6
Aniline
Concen: 20.437 ng
RT: 6.557 min Scan# 742
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion: 93 Resp: 185773

Ion	Ratio	Lower	Upper
93	100		
66	39.7	32.0	48.0
65	20.5	16.1	24.1



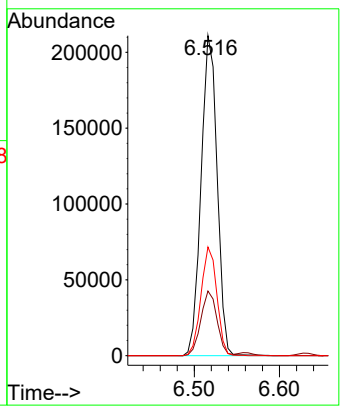


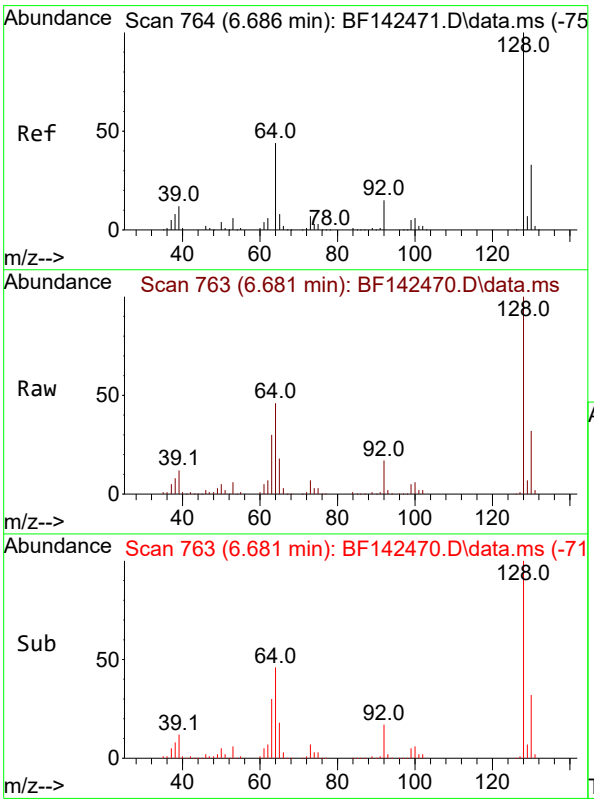
#7
Phenol-d6
Concen: 40.843 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 99 Resp: 276122

Ion	Ratio	Lower	Upper
99	100		
42	20.2	16.2	24.2
71	34.0	27.3	40.9

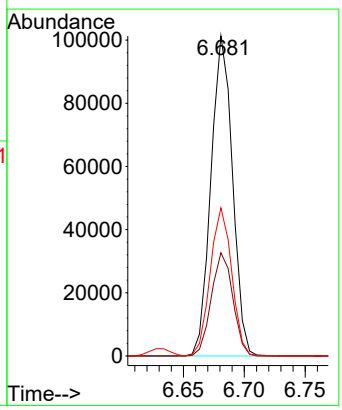


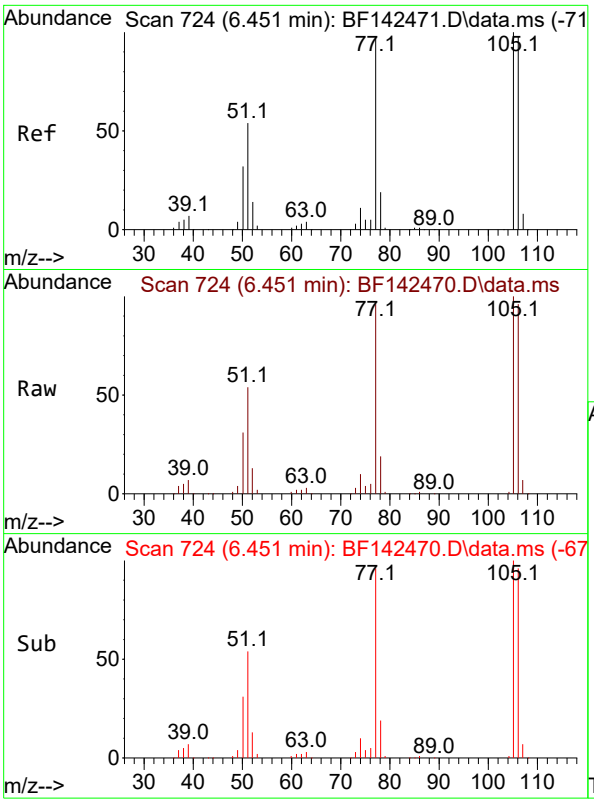


#8
2-Chlorophenol
Concen: 20.347 ng
RT: 6.681 min Scan# 763
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:128 Resp: 124465

Ion	Ratio	Lower	Upper
128	100		
130	32.3	12.6	52.6
64	46.3	25.1	65.1



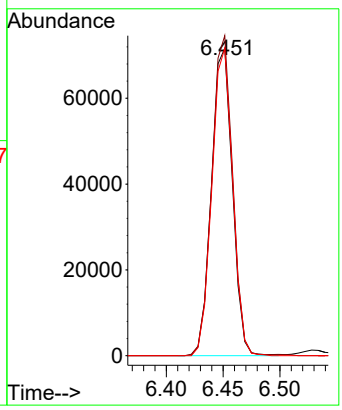


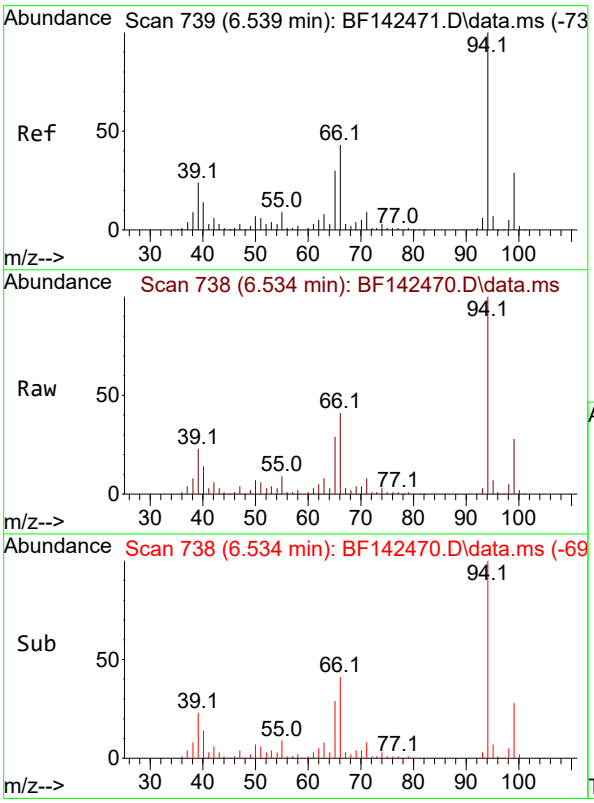
#9
Benzaldehyde
Concen: 22.548 ng
RT: 6.451 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 91686

Ion	Ratio	Lower	Upper
77	100		
105	104.1	82.5	122.5
106	100.0	80.0	120.0

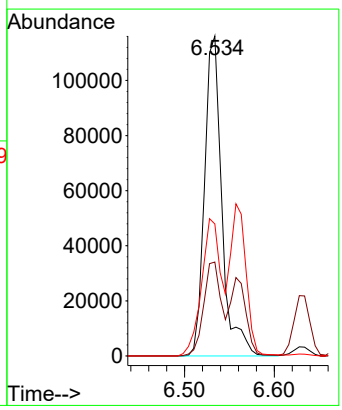


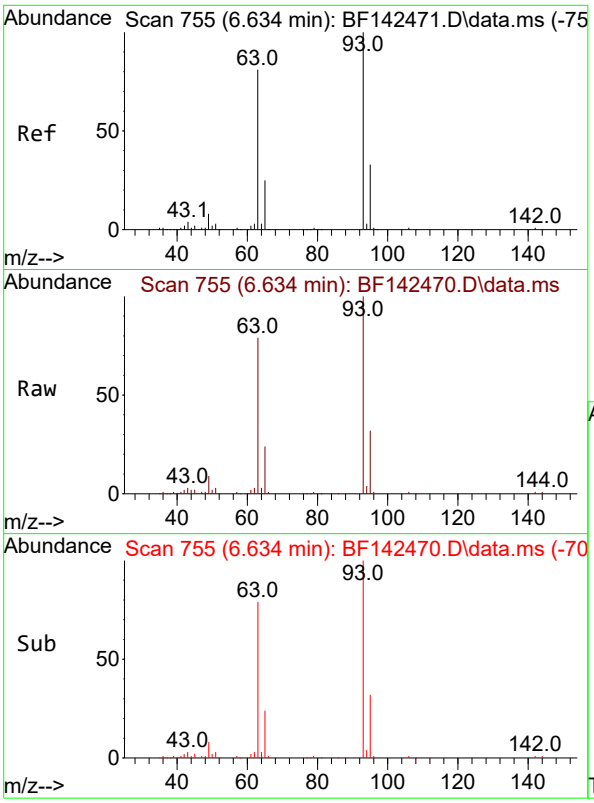


#10
Phenol
Concen: 20.479 ng
RT: 6.534 min Scan# 738
Delta R.T. -0.018 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion: 94 Resp: 155782

Ion	Ratio	Lower	Upper
94	100		
65	29.3	10.3	50.3
66	41.2	22.6	62.6



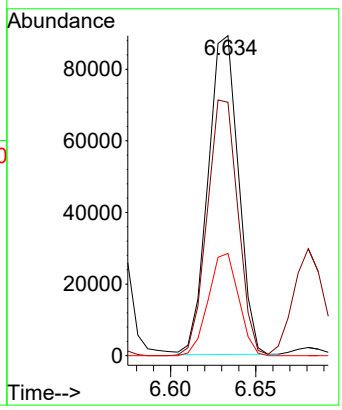


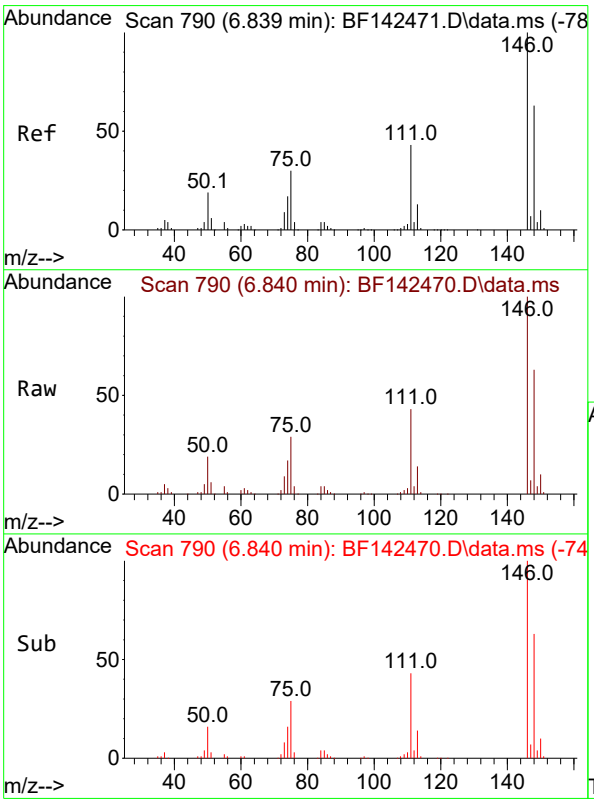
#11
bis(2-Chloroethyl)ether
Concen: 20.187 ng
RT: 6.634 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 93 Resp: 110538

Ion	Ratio	Lower	Upper
93	100		
63	79.2	60.2	100.2
95	32.0	12.3	52.3

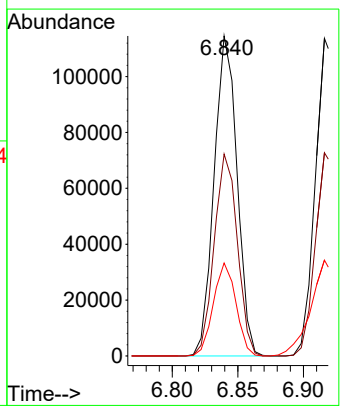


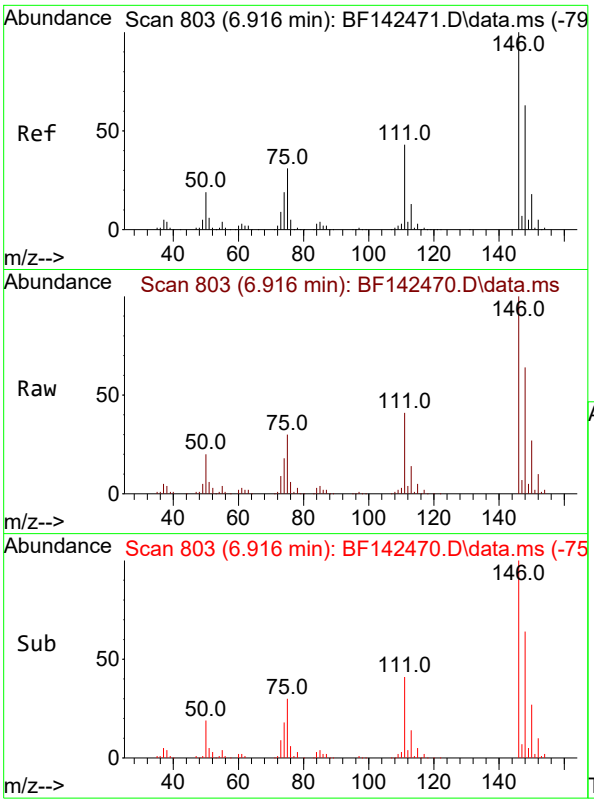


#12
1,3-Dichlorobenzene
Concen: 20.414 ng
RT: 6.840 min Scan# 790
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:146 Resp: 139347

Ion	Ratio	Lower	Upper
146	100		
148	63.1	50.6	75.8
75	29.0	23.8	35.6



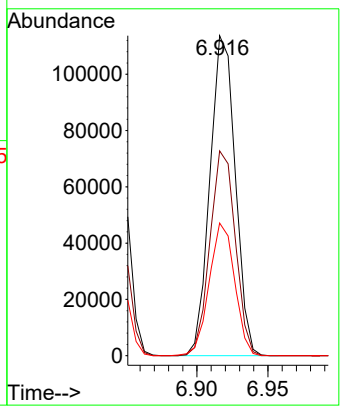


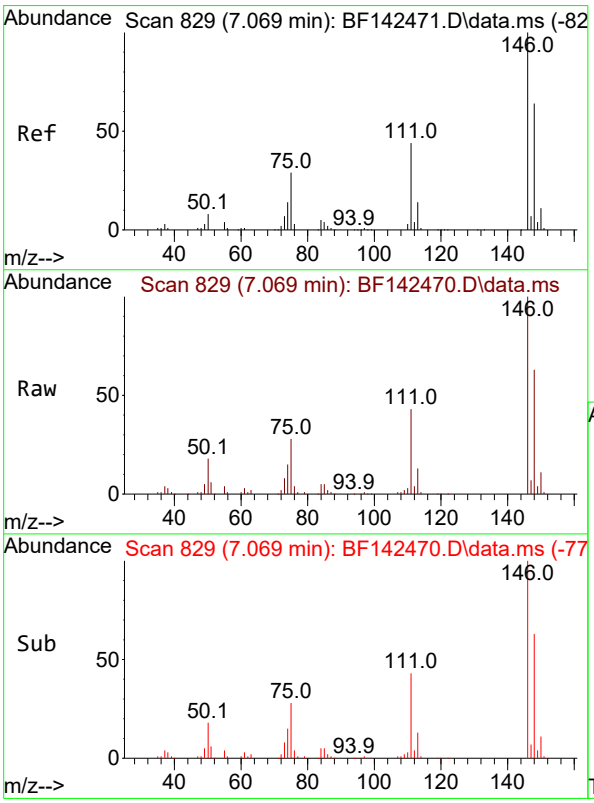
#13
1,4-Dichlorobenzene
Concen: 20.515 ng
RT: 6.916 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:146 Resp: 141061

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.4	75.6
111	41.4	34.1	51.1

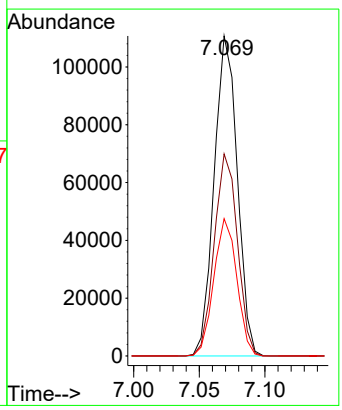


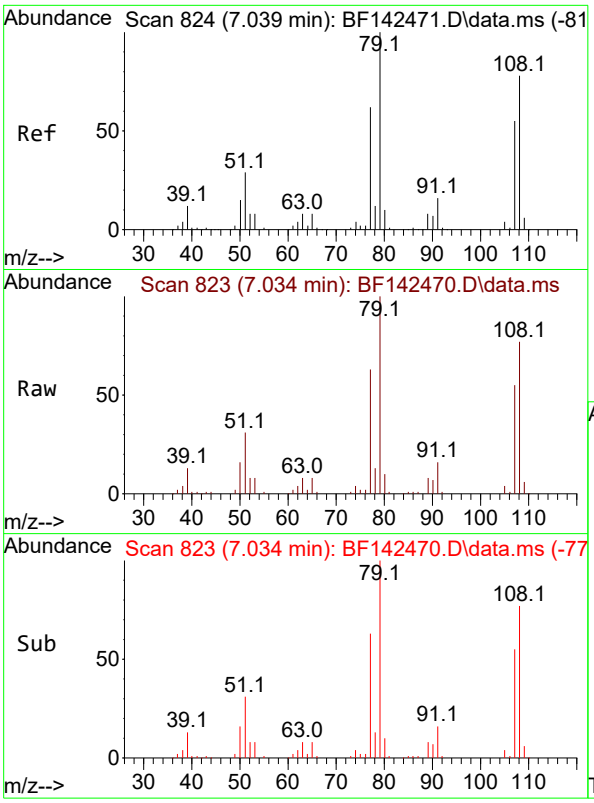


#14
1,2-Dichlorobenzene
Concen: 20.647 ng
RT: 7.069 min Scan# 829
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:146 Resp: 135845

Ion	Ratio	Lower	Upper
146	100		
148	63.1	51.0	76.4
111	42.9	35.0	52.6



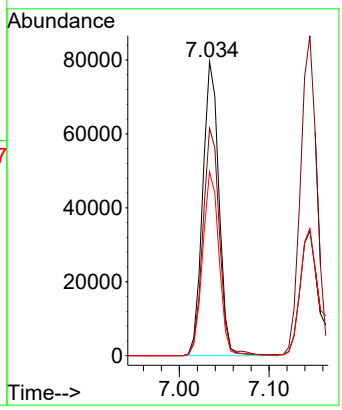


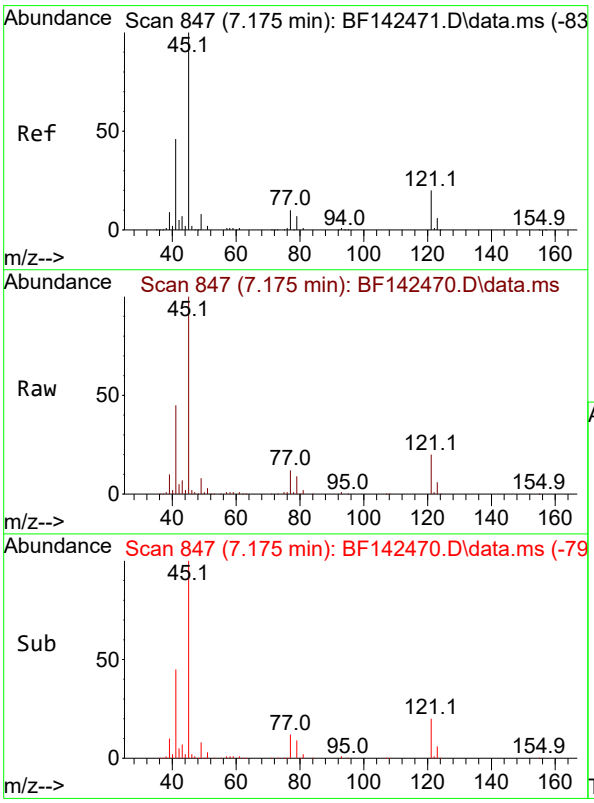
#15
Benzyl Alcohol
Concen: 20.030 ng
RT: 7.034 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 100072

Ion	Ratio	Lower	Upper
79	100		
108	77.4	62.1	93.1
77	62.5	49.5	74.3

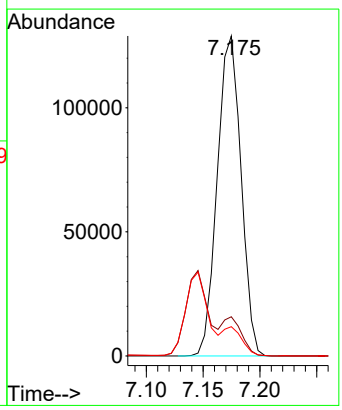


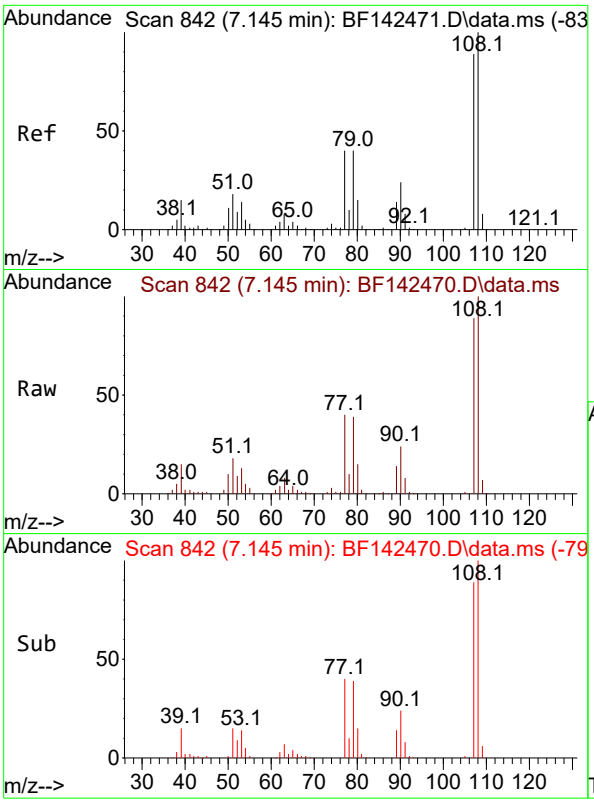


#16
2,2'-oxybis(1-Chloropropane)
Concen: 20.408 ng
RT: 7.175 min Scan# 847
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion: 45 Resp: 187668

Ion	Ratio	Lower	Upper
45	100		
77	12.3	0.0	32.0
79	9.2	0.0	29.2



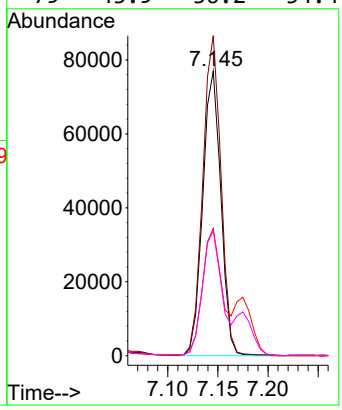


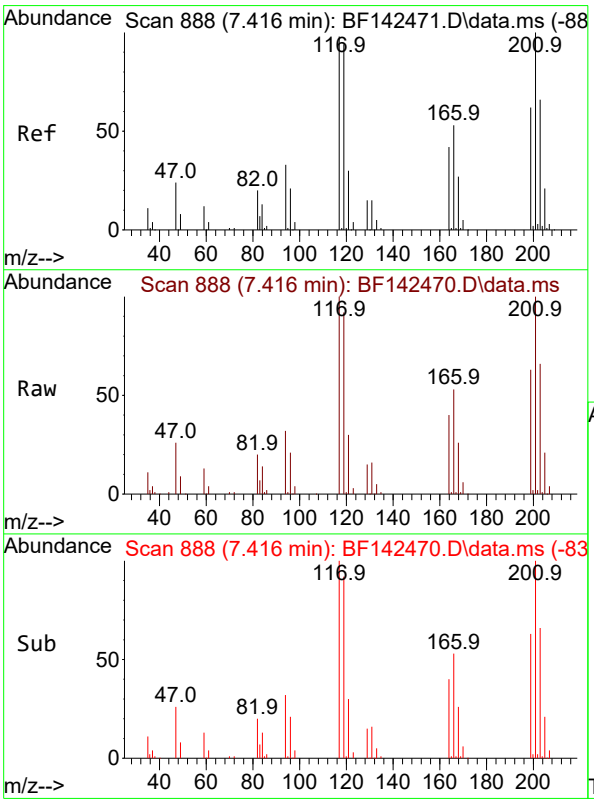
#17
2-Methylphenol
Concen: 20.326 ng
RT: 7.145 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:107 Resp: 97077

Ion	Ratio	Lower	Upper
107	100		
108	112.5	90.2	135.2
77	44.7	36.1	54.1
79	43.9	36.2	54.4

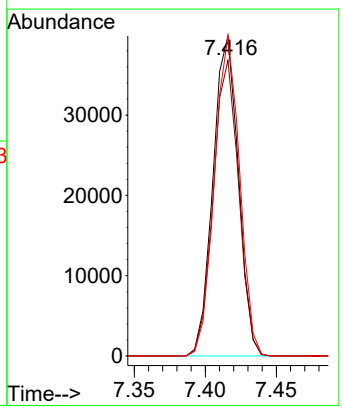


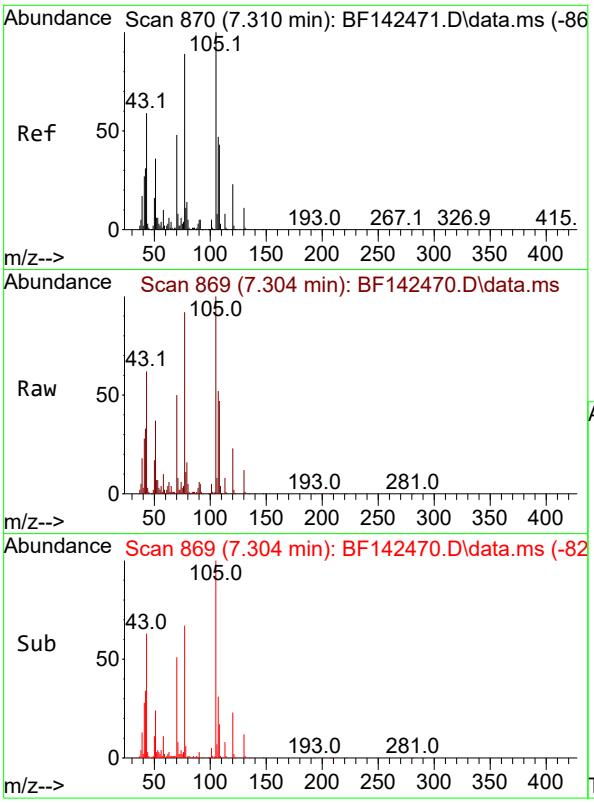


#18
Hexachloroethane
Concen: 20.617 ng
RT: 7.416 min Scan# 888
Delta R.T. 0.000 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:117 Resp: 49500

Ion	Ratio	Lower	Upper
117	100		
119	92.4	76.6	114.8
201	99.9	81.3	121.9



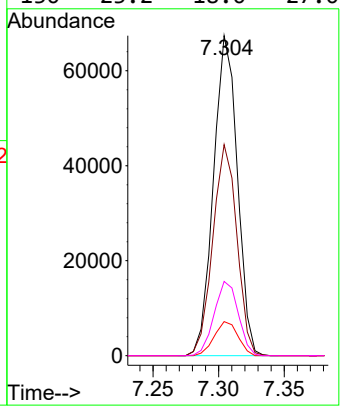


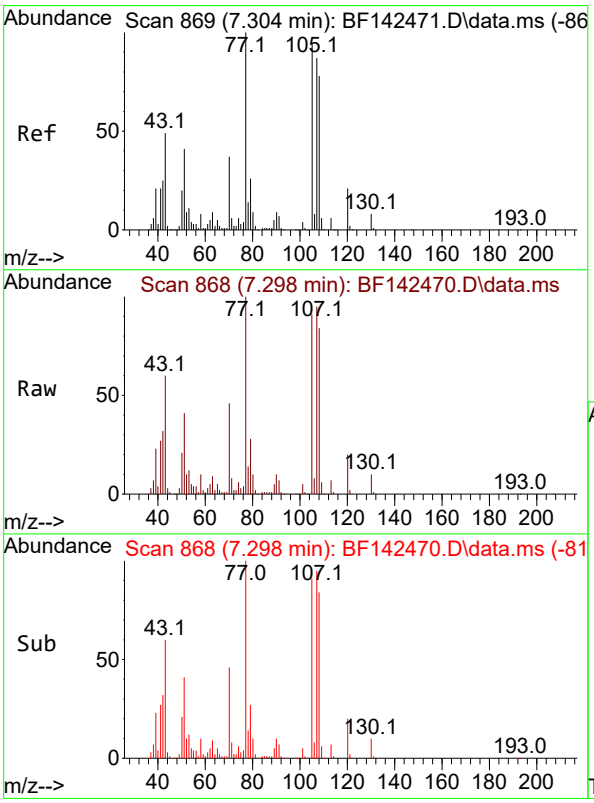
#19
n-Nitroso-di-n-propylamine
Concen: 20.328 ng
RT: 7.304 min Scan# 8
Delta R.T. -0.023 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 70 Resp: 85172

Ion	Ratio	Lower	Upper
70	100		
42	66.0	52.4	78.6
101	10.7	7.8	11.8
130	23.2	18.0	27.0

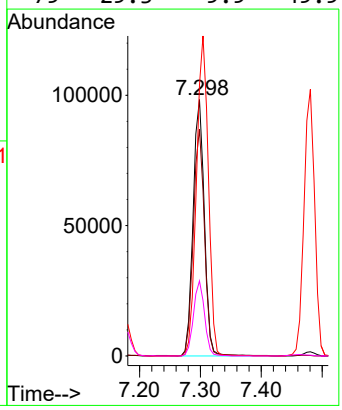


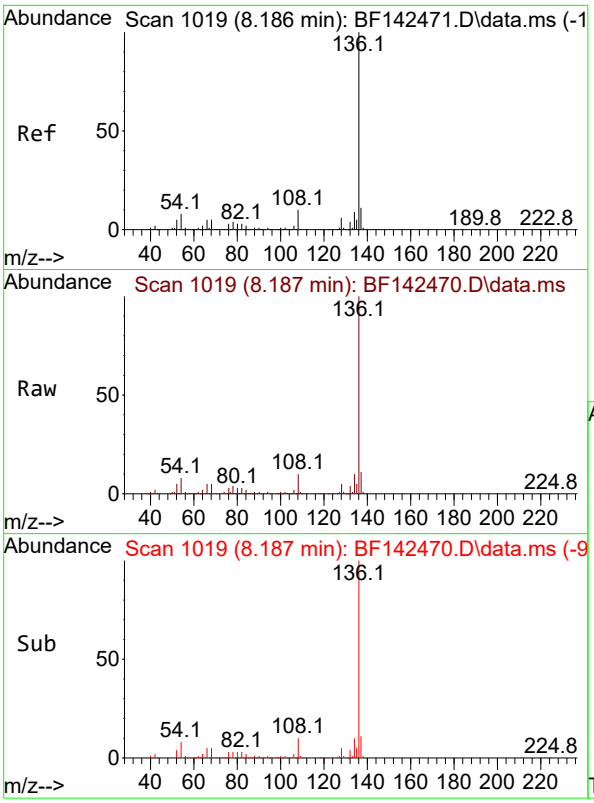


#20
3+4-Methylphenols
Concen: 20.685 ng
RT: 7.298 min Scan# 868
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:107 Resp: 126511

Ion	Ratio	Lower	Upper
107	100		
108	88.5	70.4	110.4
77	105.7	95.4	135.4
79	29.3	9.9	49.9



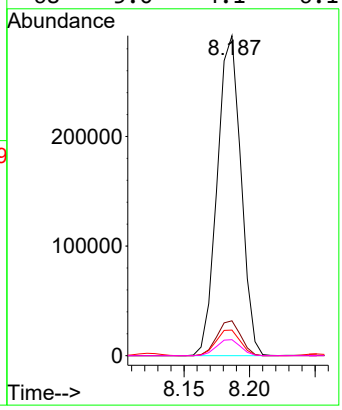


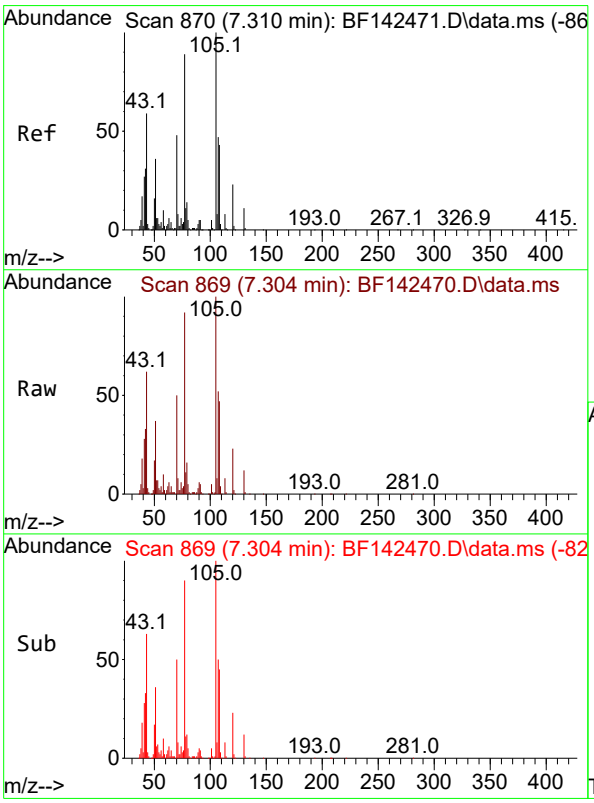
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.187 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:136 Resp: 367495

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.0	6.6	10.0
68	5.0	4.1	6.1

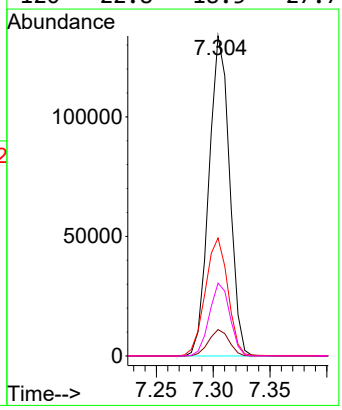


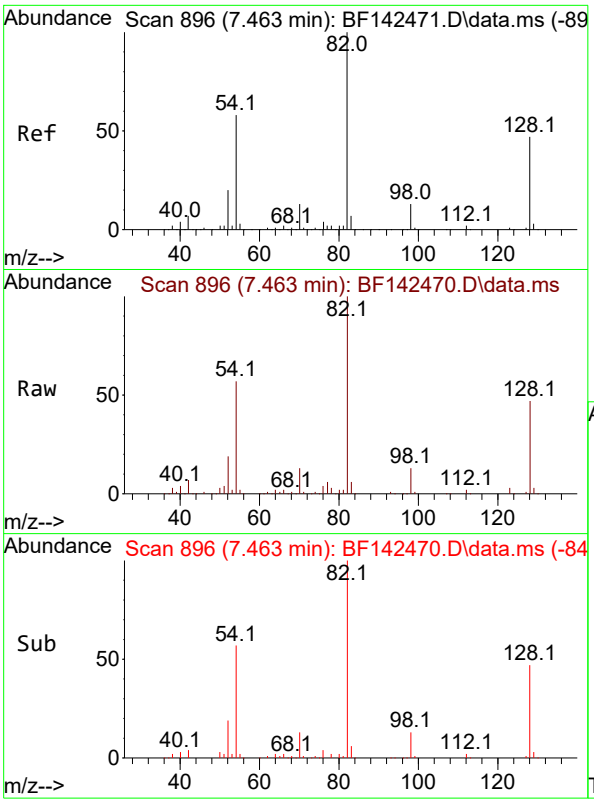


#22
Acetophenone
Concen: 20.741 ng
RT: 7.304 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:105 Resp: 168730

Ion	Ratio	Lower	Upper
105	100		
71	8.2	6.4	9.6
51	36.9	28.6	42.8
120	22.8	18.5	27.7



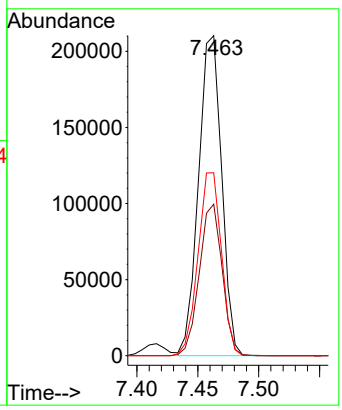


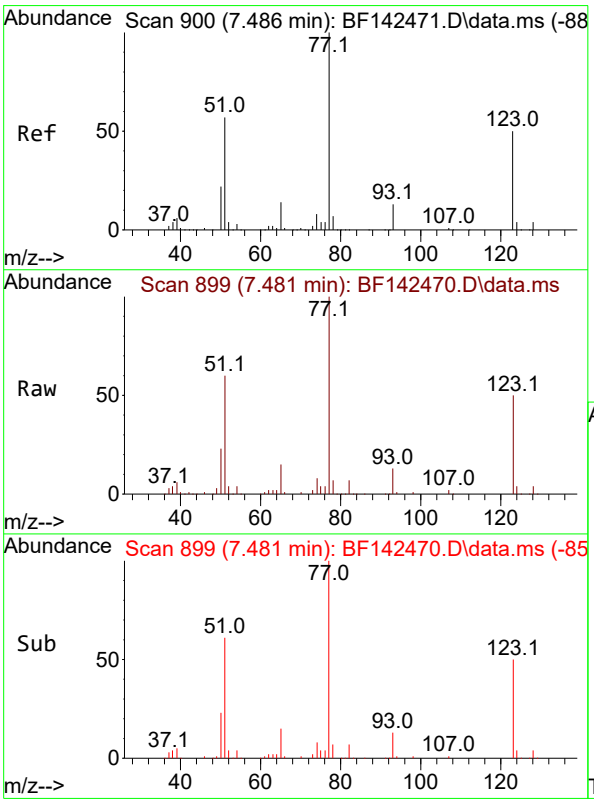
#23
Nitrobenzene-d5
Concen: 41.326 ng
RT: 7.463 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 278514

Ion	Ratio	Lower	Upper
82	100		
128	47.3	37.4	56.2
54	57.2	46.6	70.0

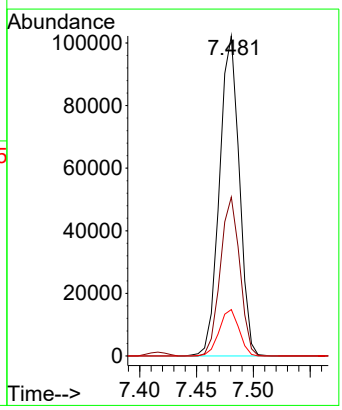


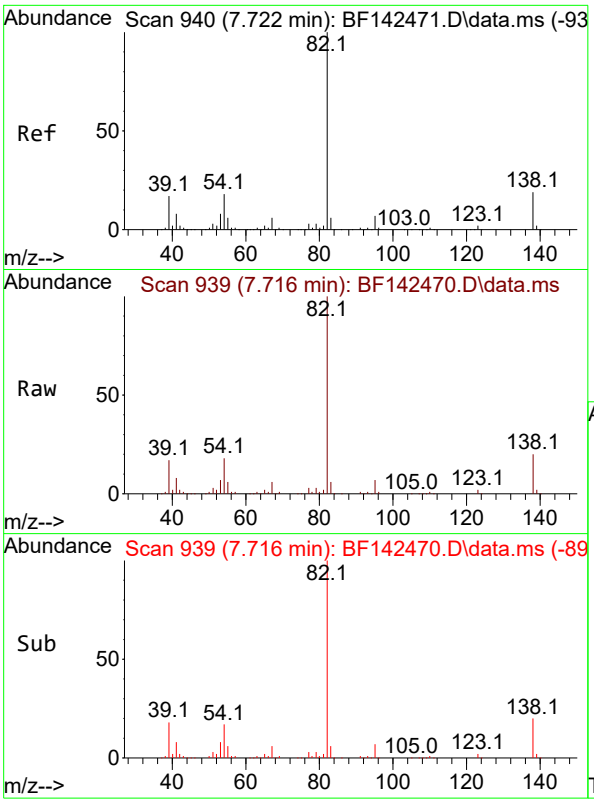


#24
Nitrobenzene
Concen: 20.433 ng
RT: 7.481 min Scan# 899
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion: 77 Resp: 124202

Ion	Ratio	Lower	Upper
77	100		
123	49.6	40.6	61.0
65	14.5	11.4	17.2



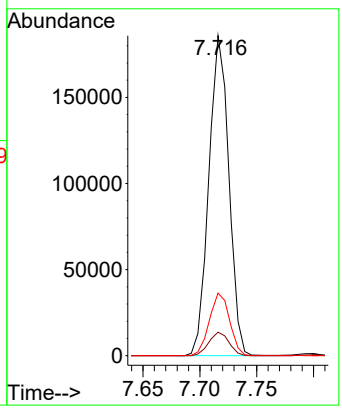


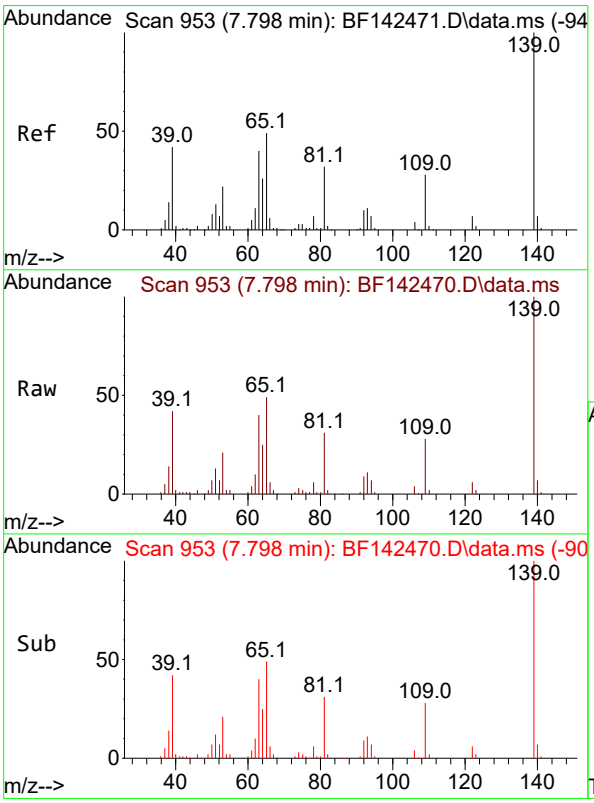
#25
Isophorone
Concen: 20.225 ng
RT: 7.716 min Scan# 9
Delta R.T. -0.018 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 227891

Ion	Ratio	Lower	Upper
82	100		
95	7.4	6.0	9.0
138	19.6	15.5	23.3

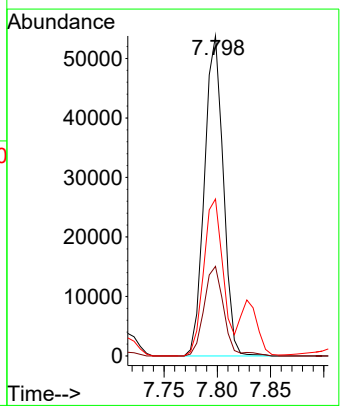


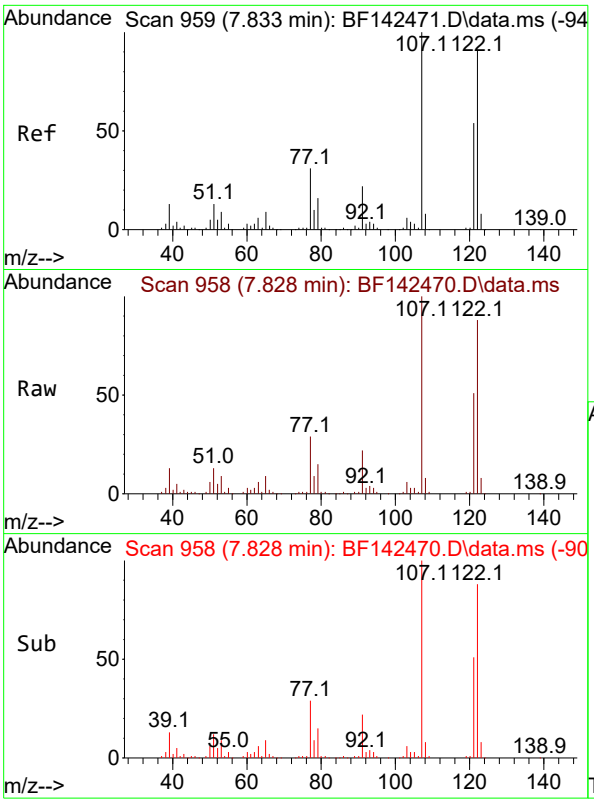


#26
2-Nitrophenol
Concen: 20.361 ng
RT: 7.798 min Scan# 953
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:139 Resp: 66130

Ion	Ratio	Lower	Upper
139	100		
109	28.0	22.6	33.8
65	49.1	39.4	59.0



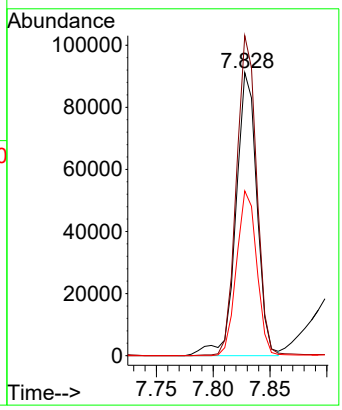


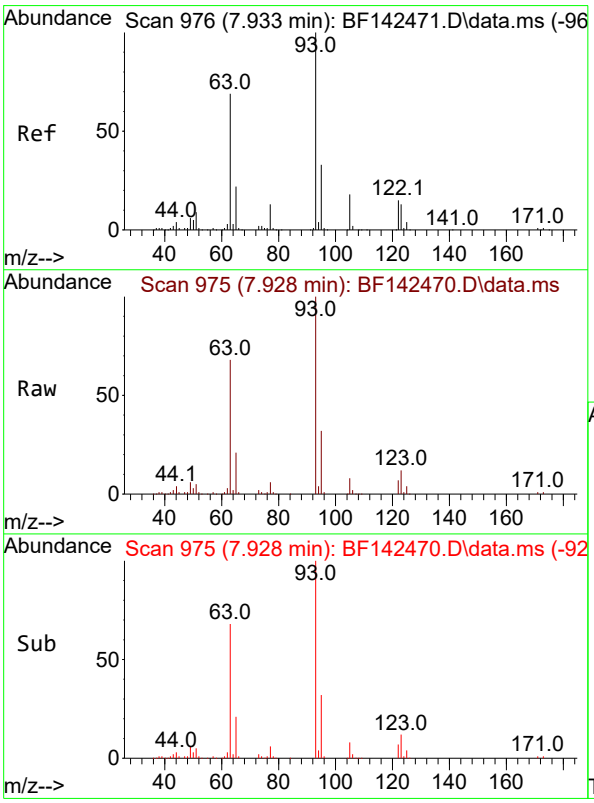
#27
2,4-Dimethylphenol
Concen: 20.412 ng
RT: 7.828 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:122 Resp: 116913

Ion	Ratio	Lower	Upper
122	100		
107	113.0	88.1	132.1
121	58.2	47.3	70.9

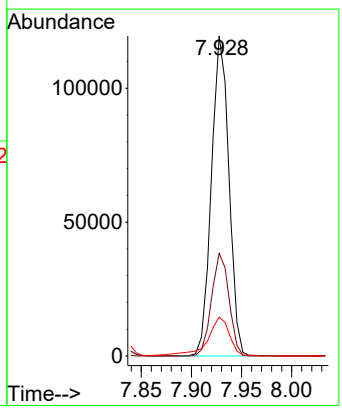


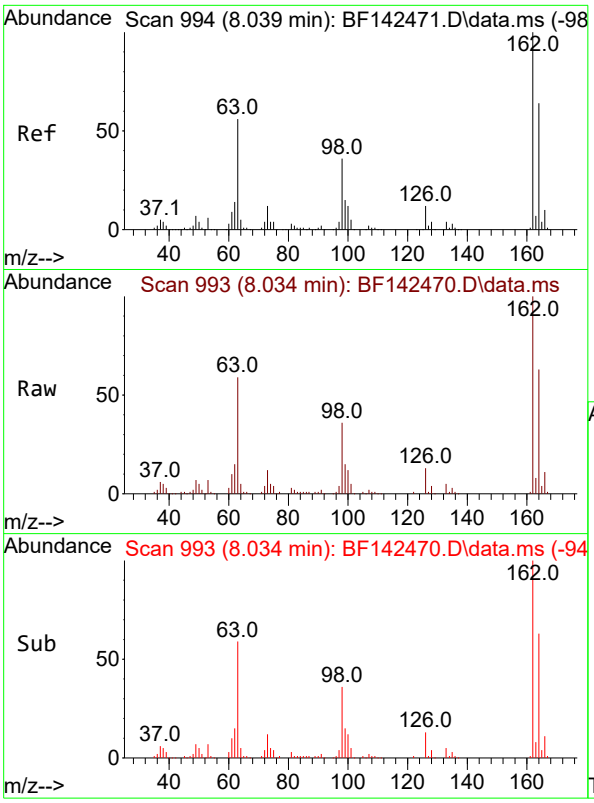


#28
bis(2-Chloroethoxy)methane
Concen: 20.593 ng
RT: 7.928 min Scan# 975
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion: 93 Resp: 144952

Ion	Ratio	Lower	Upper
93	100		
95	32.0	26.4	39.6
123	12.2	10.6	15.8



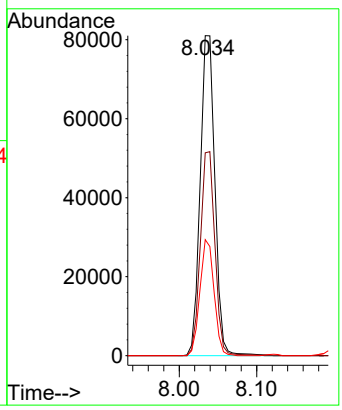


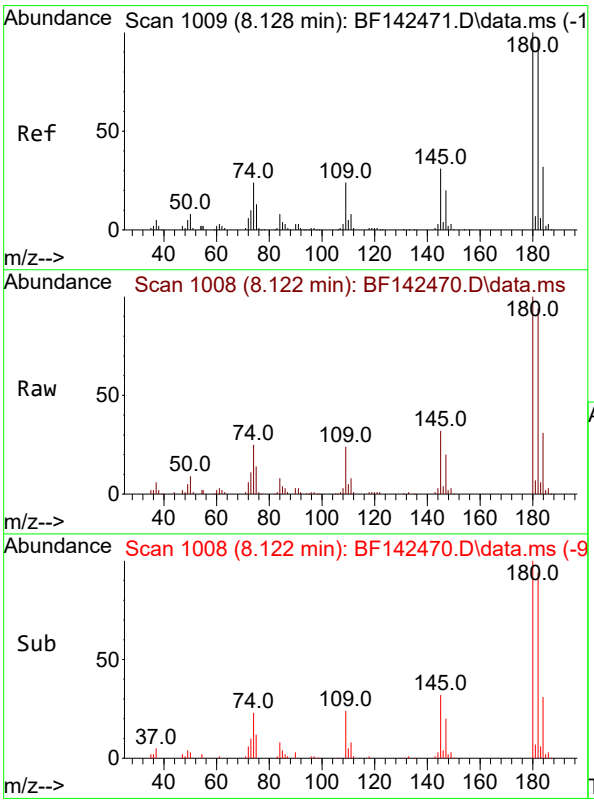
#29
2,4-Dichlorophenol
Concen: 20.462 ng
RT: 8.034 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 106584

Ion	Ratio	Lower	Upper
162	100		
164	63.4	43.7	83.7
98	36.3	15.5	55.5

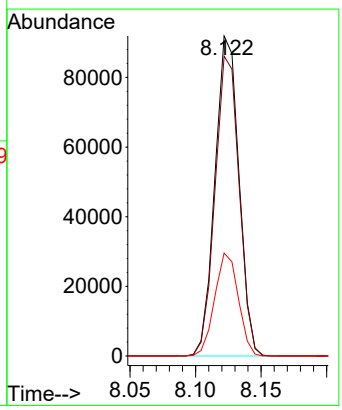


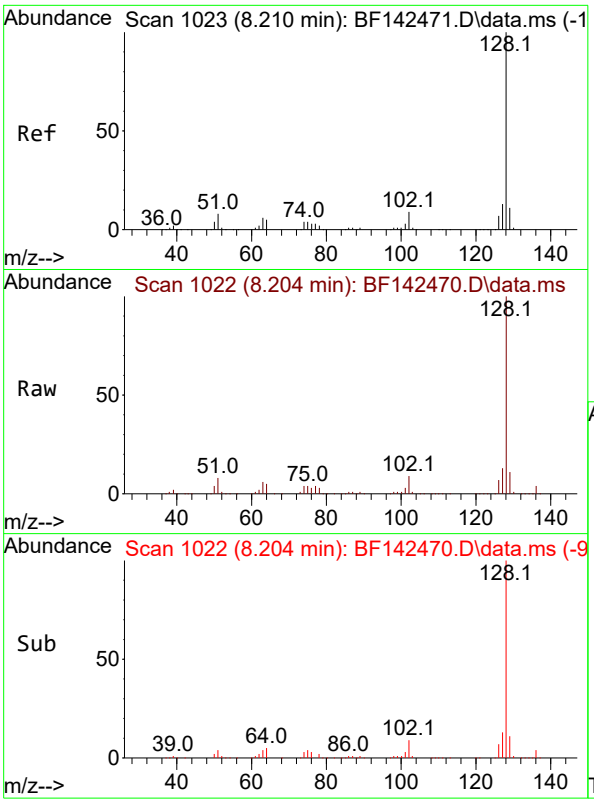


#30
1,2,4-Trichlorobenzene
Concen: 20.638 ng
RT: 8.122 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:180 Resp: 116666

Ion	Ratio	Lower	Upper
180	100		
182	93.7	78.0	117.0
145	32.2	25.0	37.6



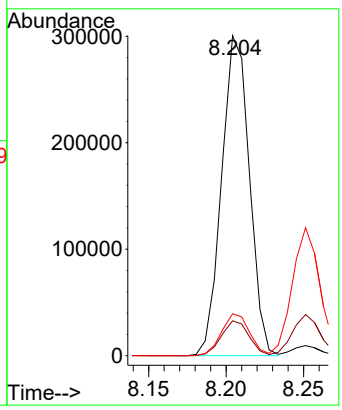


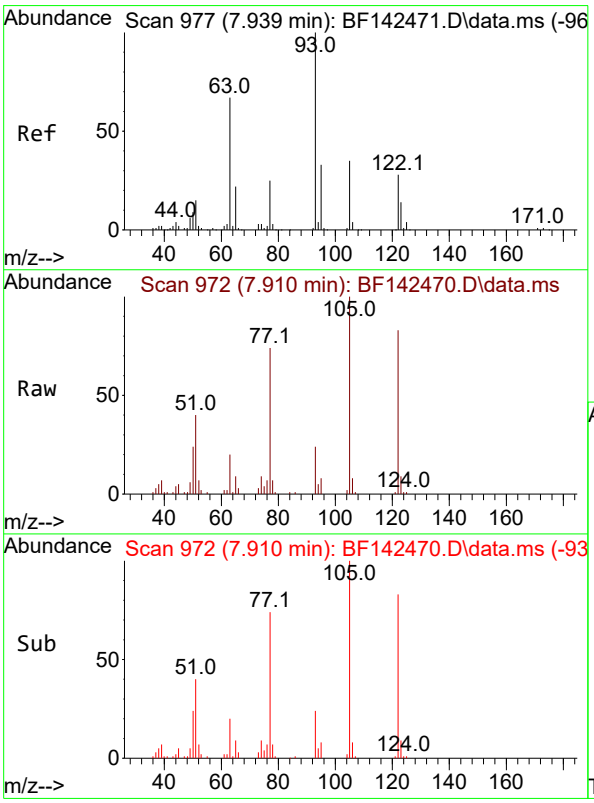
#31
Naphthalene
Concen: 20.713 ng
RT: 8.204 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:128 Resp: 374799

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.9	13.3
127	13.1	10.5	15.7

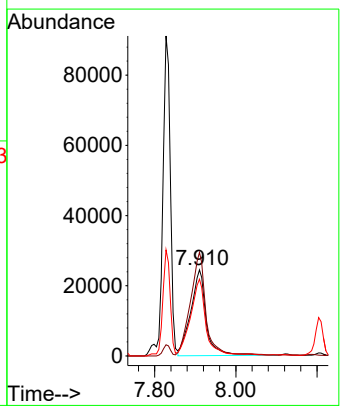


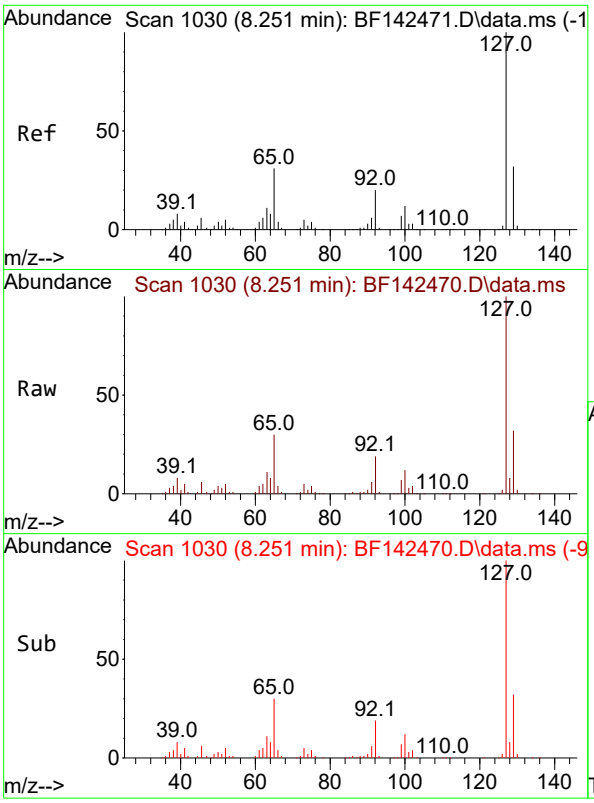


#32
Benzoic acid
Concen: 18.586 ng
RT: 7.910 min Scan# 972
Delta R.T. -0.065 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:122 Resp: 64801

Ion	Ratio	Lower	Upper
122	100		
105	120.5	101.7	141.7
77	89.3	69.5	109.5



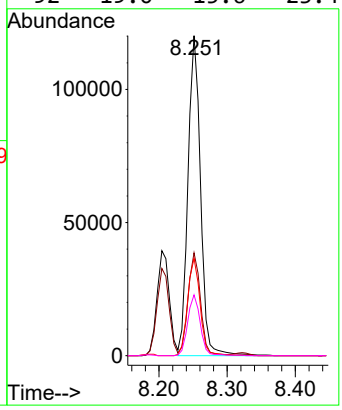


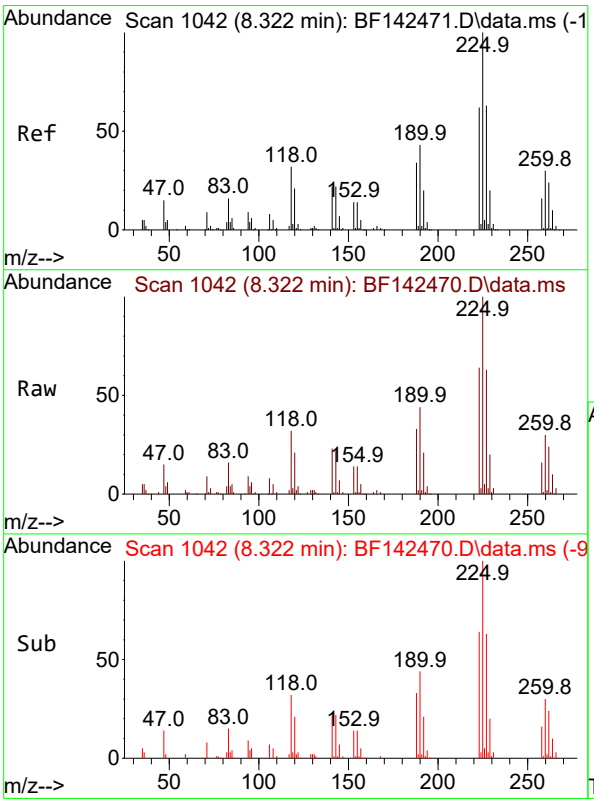
#33
4-Chloroaniline
Concen: 20.853 ng
RT: 8.251 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:127 Resp: 152901

Ion	Ratio	Lower	Upper
127	100		
129	32.2	26.1	39.1
65	30.4	24.9	37.3
92	19.0	15.6	23.4

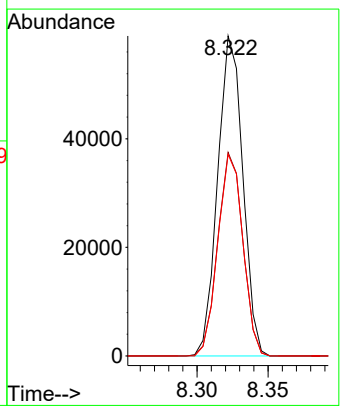


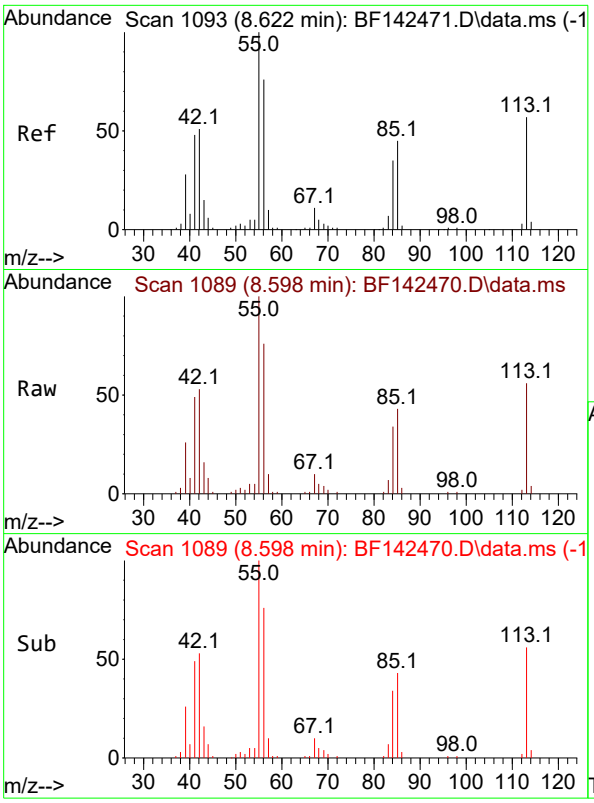


#34
Hexachlorobutadiene
Concen: 20.523 ng
RT: 8.322 min Scan# 1042
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:225 Resp: 72441

Ion	Ratio	Lower	Upper
225	100		
223	63.6	49.7	74.5
227	63.0	50.3	75.5



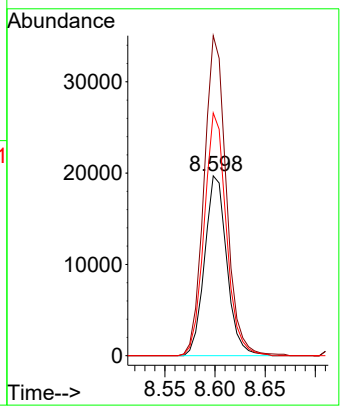


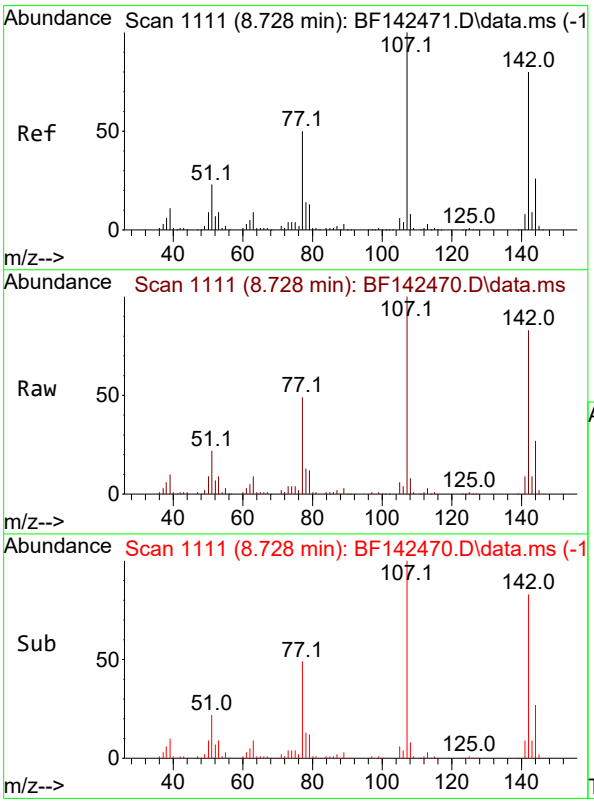
#35
Caprolactam
Concen: 20.762 ng
RT: 8.598 min Scan# 1
Delta R.T. -0.047 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:113 Resp: 30374

Ion	Ratio	Lower	Upper
113	100		
55	178.0	154.7	194.7
56	135.0	113.2	153.2

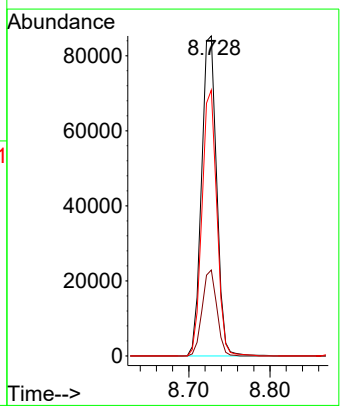


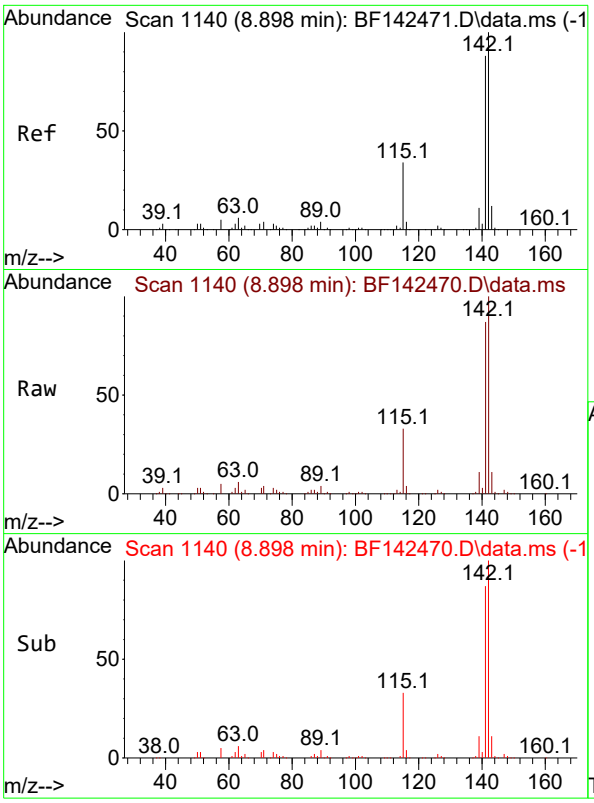


#36
4-Chloro-3-methylphenol
Concen: 20.567 ng
RT: 8.728 min Scan# 1111
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:107 Resp: 109793

Ion	Ratio	Lower	Upper
107	100		
144	26.9	20.9	31.3
142	83.1	64.2	96.2



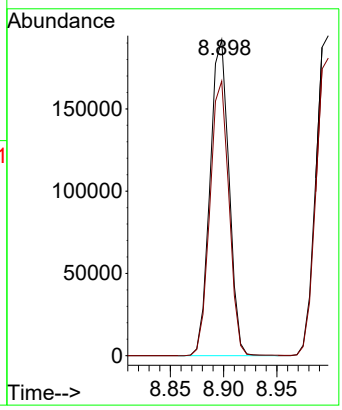


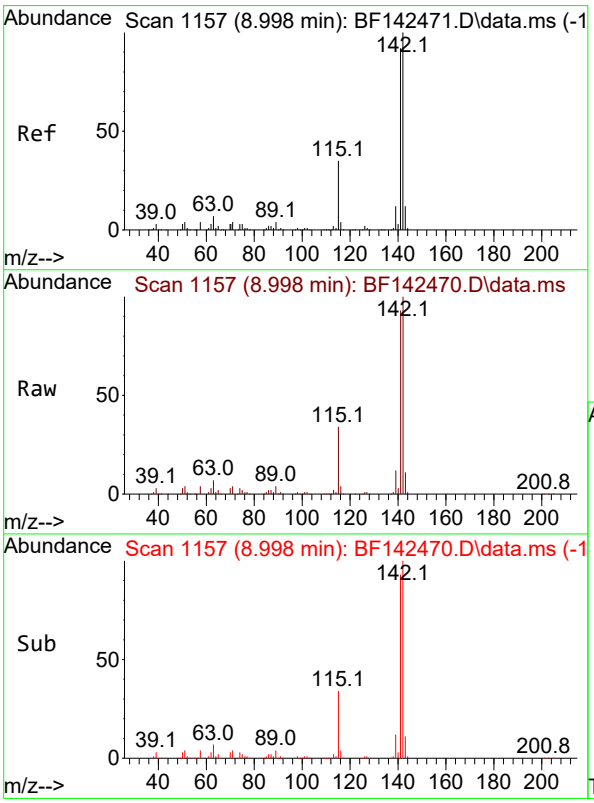
#37
2-Methylnaphthalene
Concen: 20.849 ng
RT: 8.898 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:142 Resp: 237350

Ion	Ratio	Lower	Upper
142	100		
141	86.9	70.7	106.1

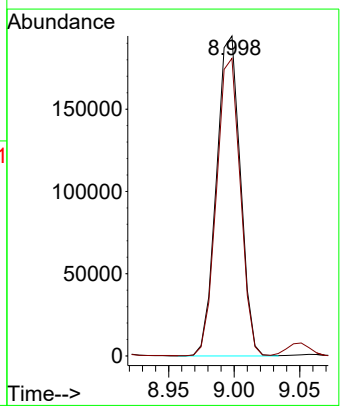


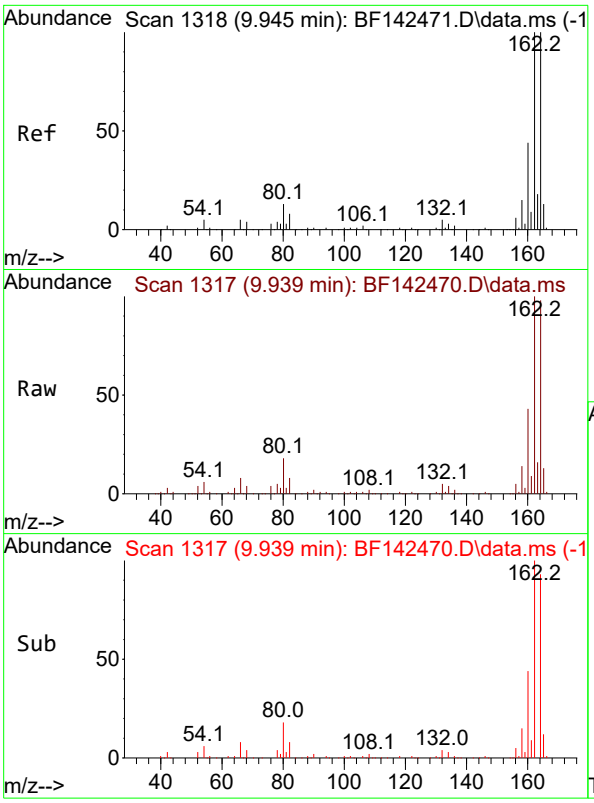


#38
1-Methylnaphthalene
Concen: 20.961 ng
RT: 8.998 min Scan# 1157
Delta R.T. 0.000 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:142 Resp: 246831

Ion	Ratio	Lower	Upper
142	100		
141	93.0	73.4	110.2



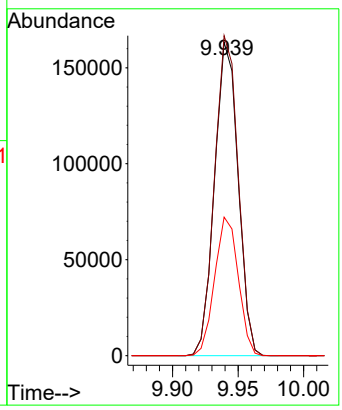


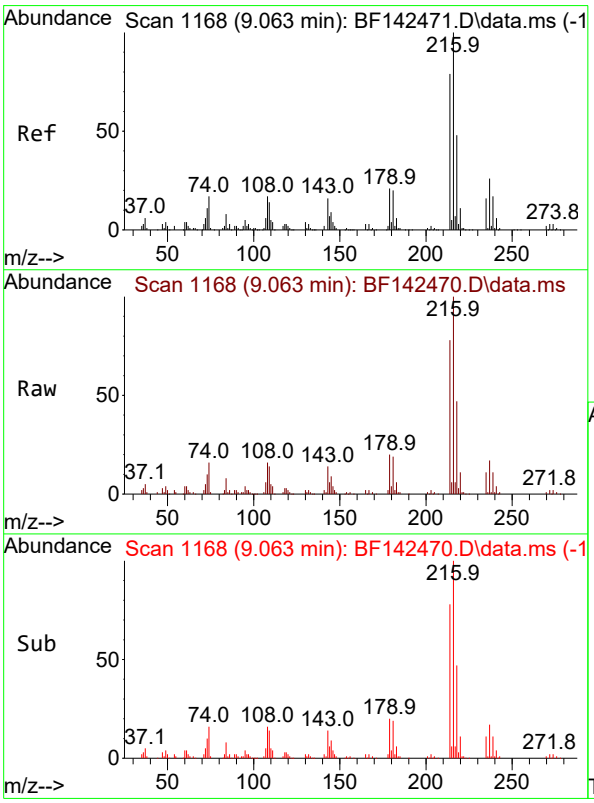
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:164 Resp: 204113

Ion	Ratio	Lower	Upper
164	100		
162	102.1	80.2	120.4
160	44.2	35.6	53.4

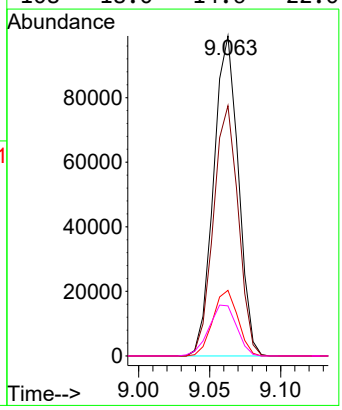


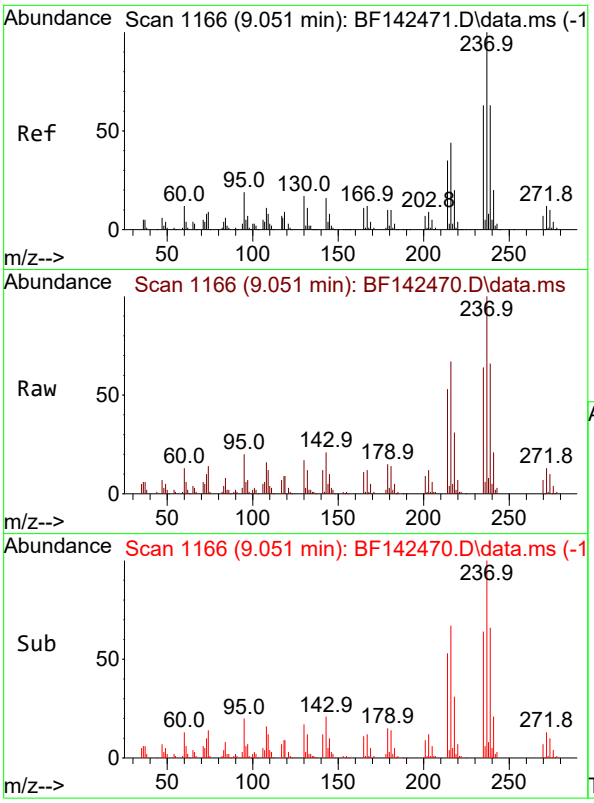


#40
1,2,4,5-Tetrachlorobenzene
Concen: 20.477 ng
RT: 9.063 min Scan# 1168
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:216 Resp: 119980

Ion	Ratio	Lower	Upper
216	100		
214	78.4	62.9	94.3
179	20.7	16.9	25.3
108	18.0	14.6	22.0



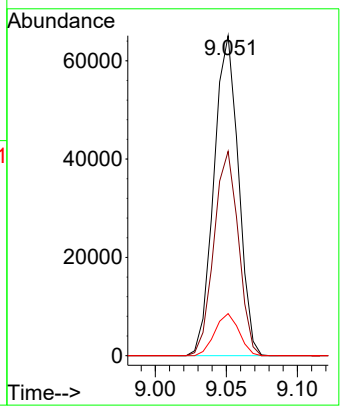


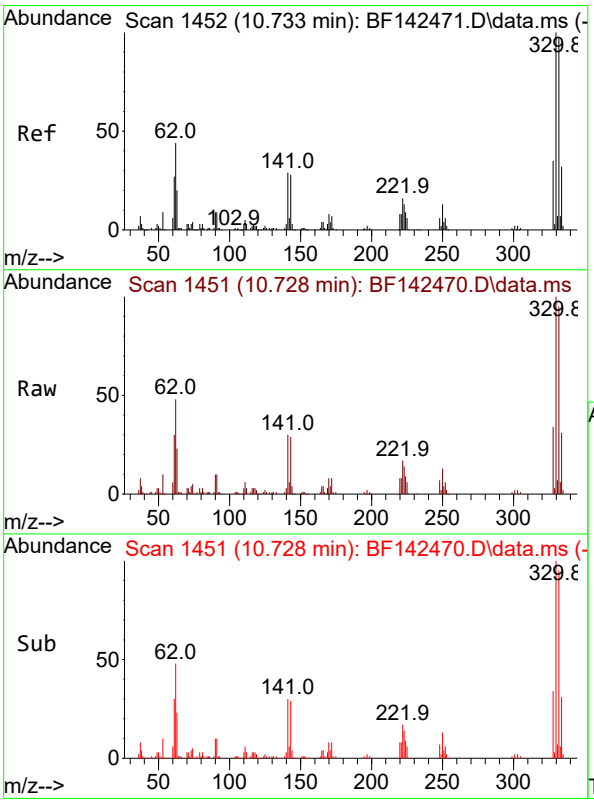
#41
Hexachlorocyclopentadiene
Concen: 19.796 ng
RT: 9.051 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:237 Resp: 78243

Ion	Ratio	Lower	Upper
237	100		
235	63.8	43.3	83.3
272	13.2	0.0	32.4

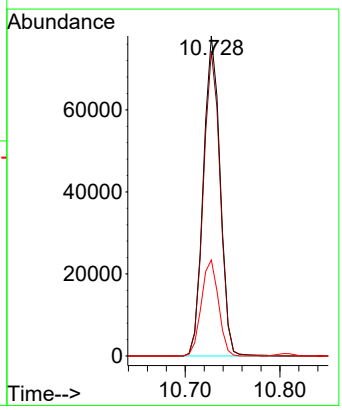


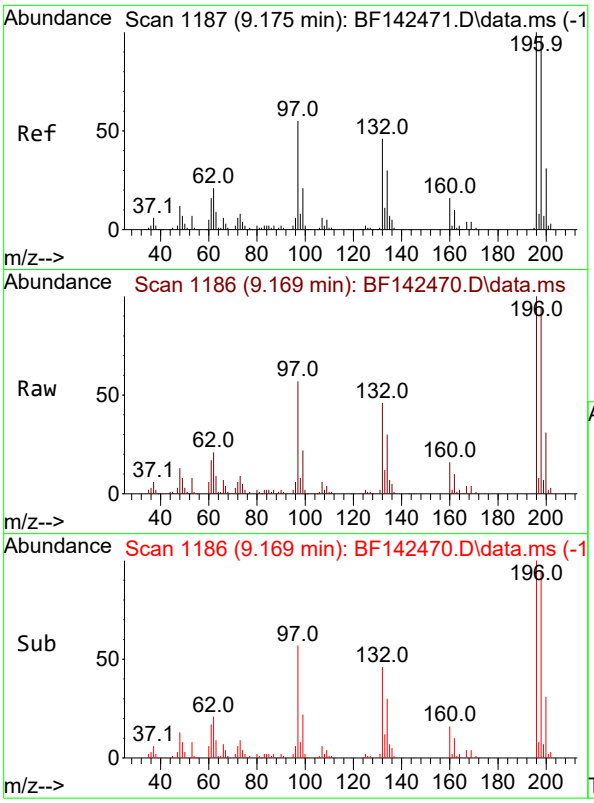


#42
2,4,6-Tribromophenol
Concen: 42.171 ng
RT: 10.728 min Scan# 1451
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:330 Resp: 95535

Ion	Ratio	Lower	Upper
330	100		
332	95.2	77.6	116.4
141	30.4	24.6	36.8



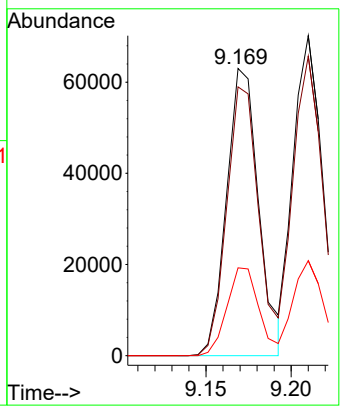


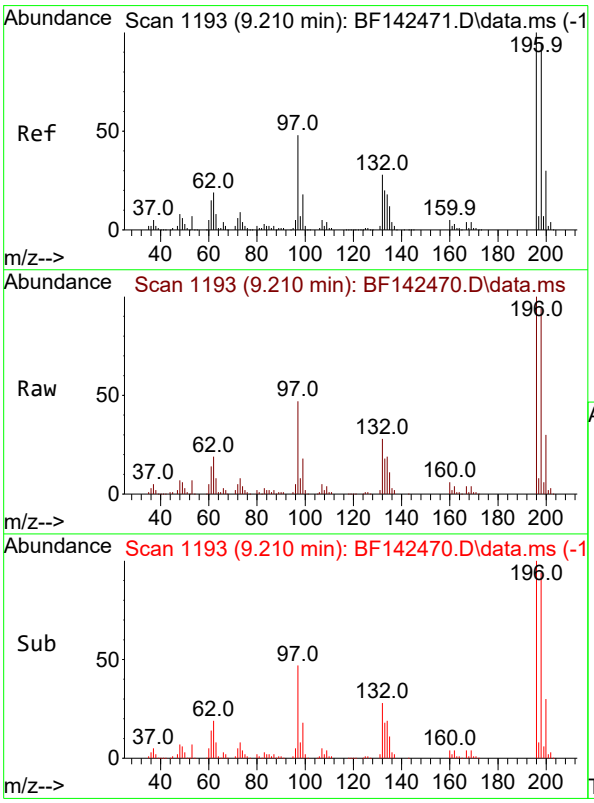
#43
2,4,6-Trichlorophenol
Concen: 20.971 ng
RT: 9.169 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:196 Resp: 82857

Ion	Ratio	Lower	Upper
196	100		
198	93.6	78.8	118.2
200	30.6	24.9	37.3

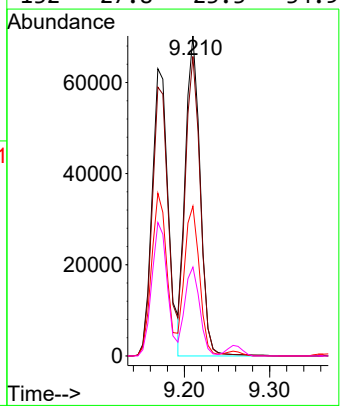


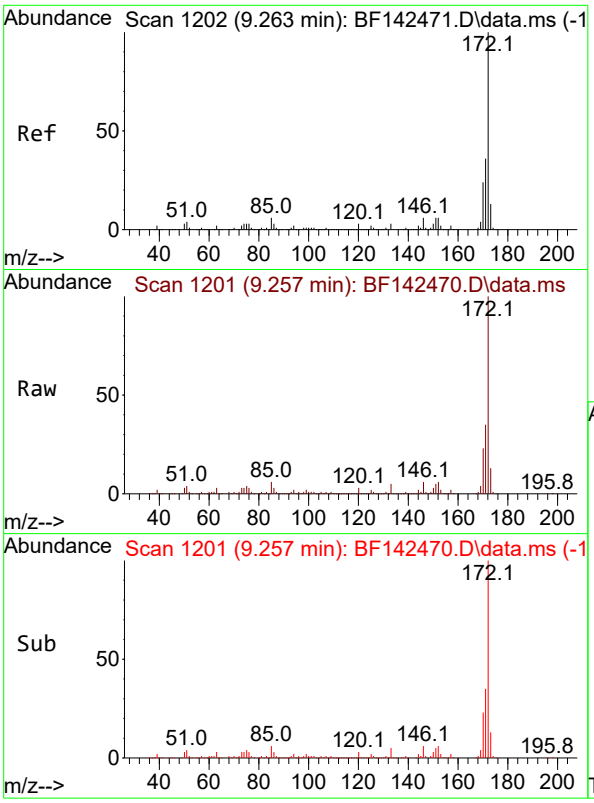


#44
2,4,5-Trichlorophenol
Concen: 20.383 ng
RT: 9.210 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:196 Resp: 84935

Ion	Ratio	Lower	Upper
196	100		
198	93.6	75.5	113.3
97	46.8	39.3	58.9
132	27.8	23.3	34.9



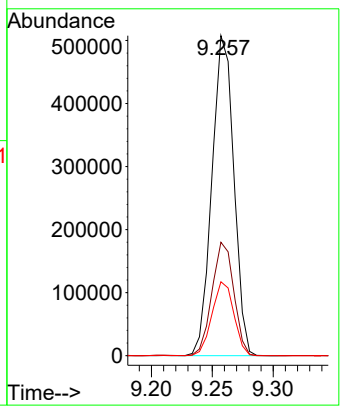


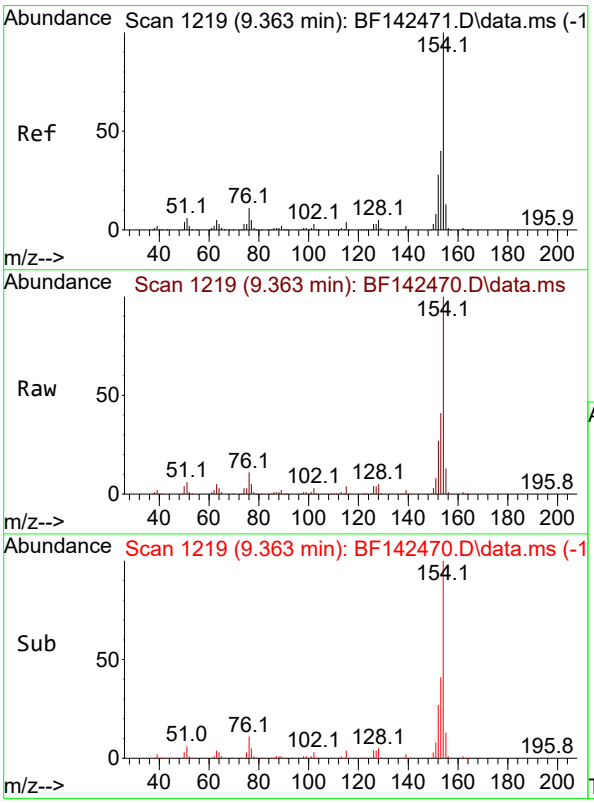
#45
2-Fluorobiphenyl
Concen: 41.799 ng
RT: 9.257 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:172 Resp: 635813

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	42.8
170	23.1	18.9	28.3

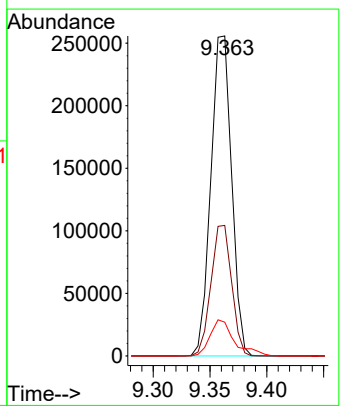


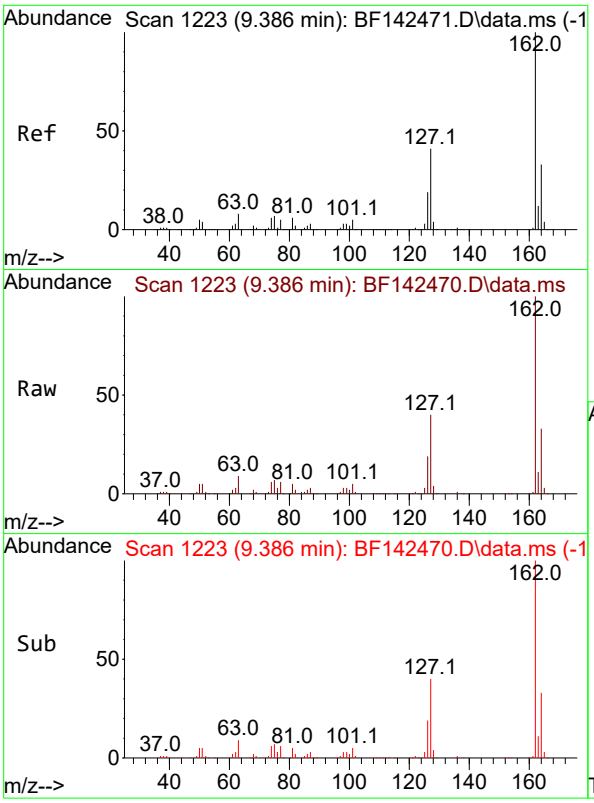


#46
1,1'-Biphenyl
Concen: 20.553 ng
RT: 9.363 min Scan# 1219
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:154 Resp: 325474

Ion	Ratio	Lower	Upper
154	100		
153	40.8	20.4	60.4
76	10.6	0.0	30.8



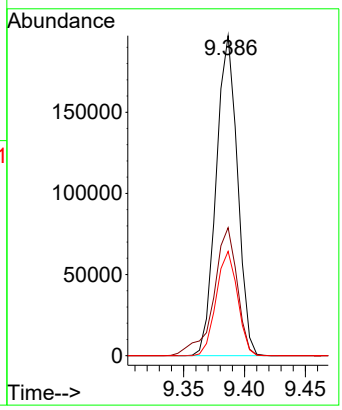


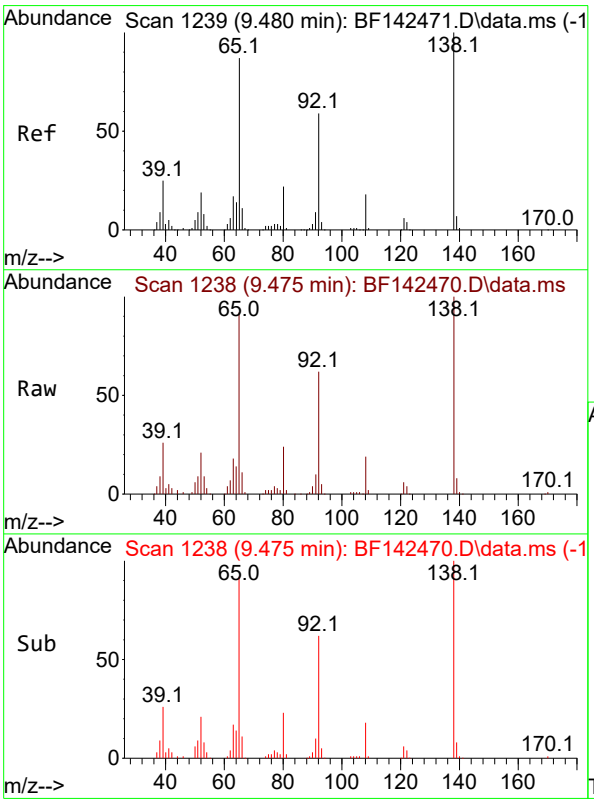
#47
2-Chloronaphthalene
Concen: 20.526 ng
RT: 9.386 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 240148

Ion	Ratio	Lower	Upper
162	100		
127	40.0	33.5	50.3
164	32.6	26.1	39.1

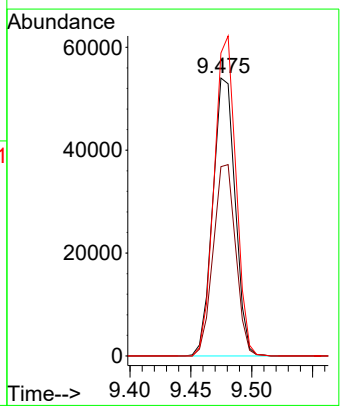


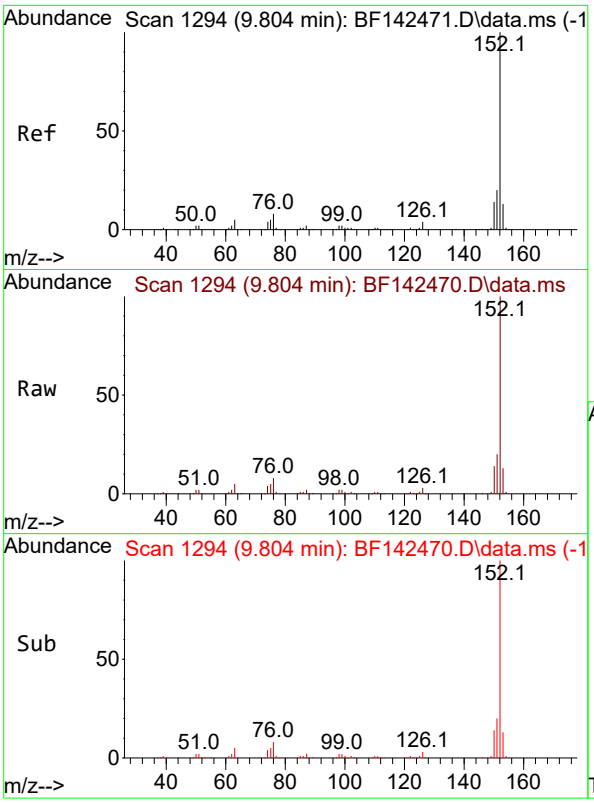


#48
2-Nitroaniline
Concen: 20.424 ng
RT: 9.475 min Scan# 1238
Delta R.T. -0.011 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion: 65 Resp: 69068

Ion	Ratio	Lower	Upper
65	100		
92	68.1	54.4	81.6
138	109.0	91.4	137.2



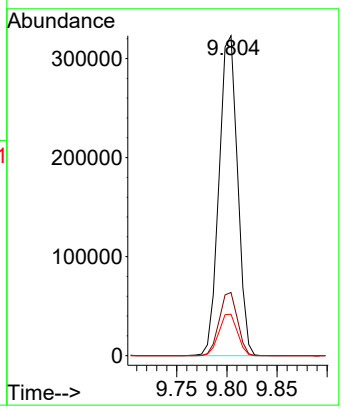


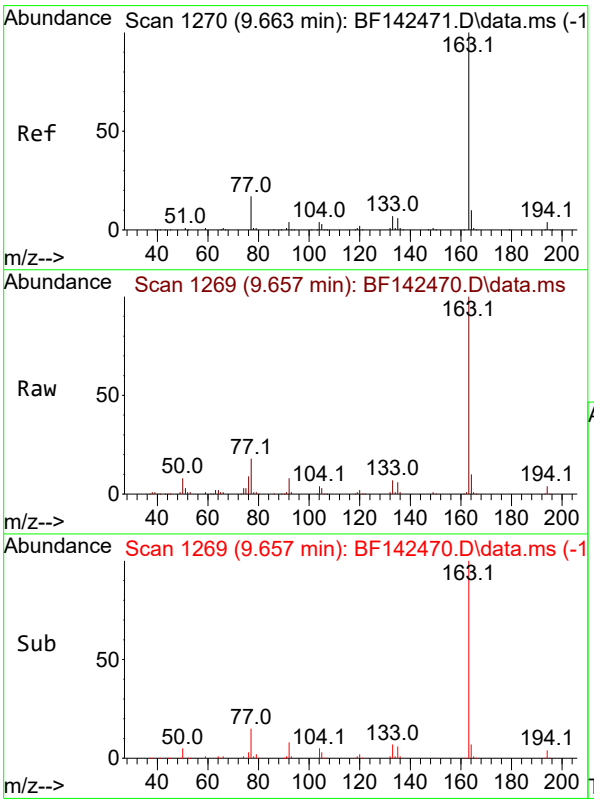
#49
Acenaphthylene
Concen: 20.945 ng
RT: 9.804 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 413782

Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.8	23.8
153	13.0	10.6	15.8

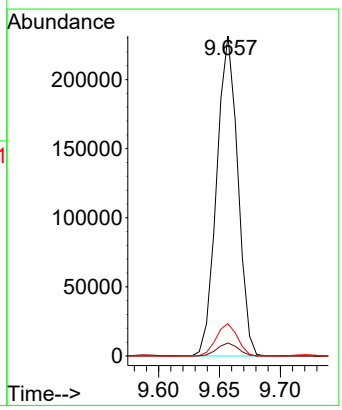


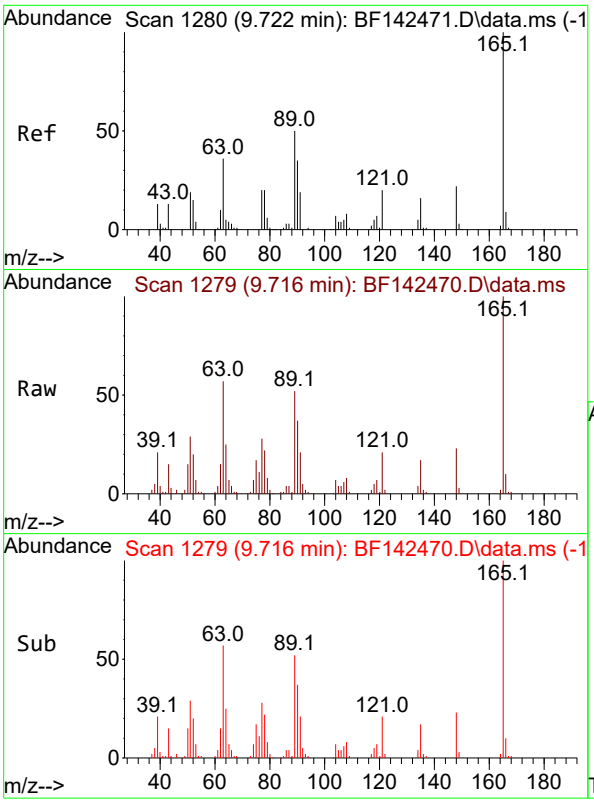


#50
Dimethylphthalate
Concen: 20.724 ng
RT: 9.657 min Scan# 1269
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:163 Resp: 279113

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.3	4.9
164	10.1	8.2	12.4



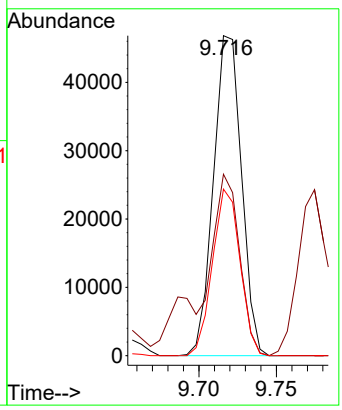


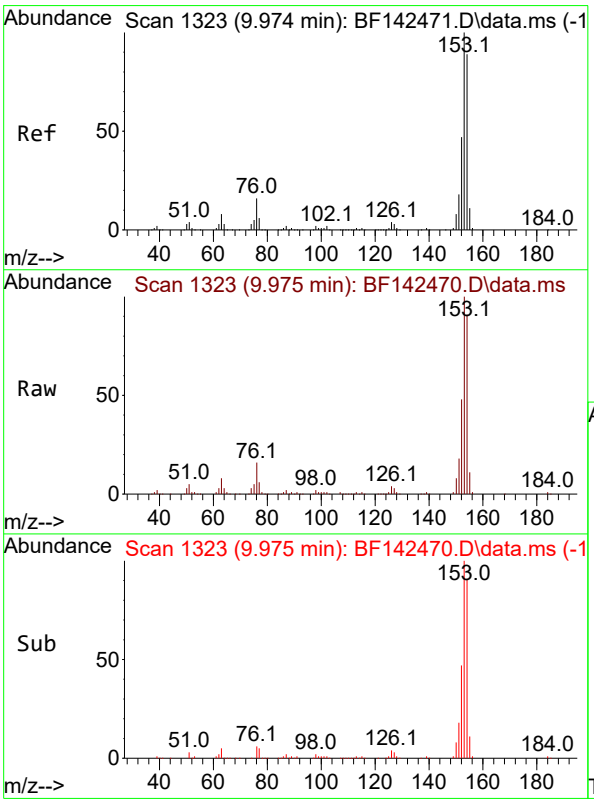
#51
2,6-Dinitrotoluene
Concen: 20.308 ng
RT: 9.716 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 59031

Ion	Ratio	Lower	Upper
165	100		
63	56.7	42.9	64.3
89	52.1	40.2	60.4

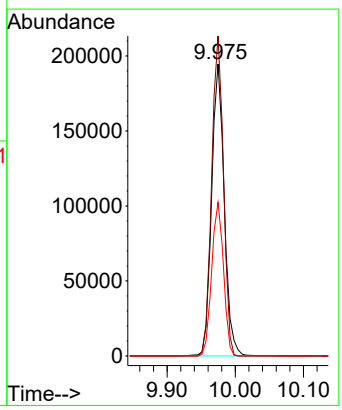


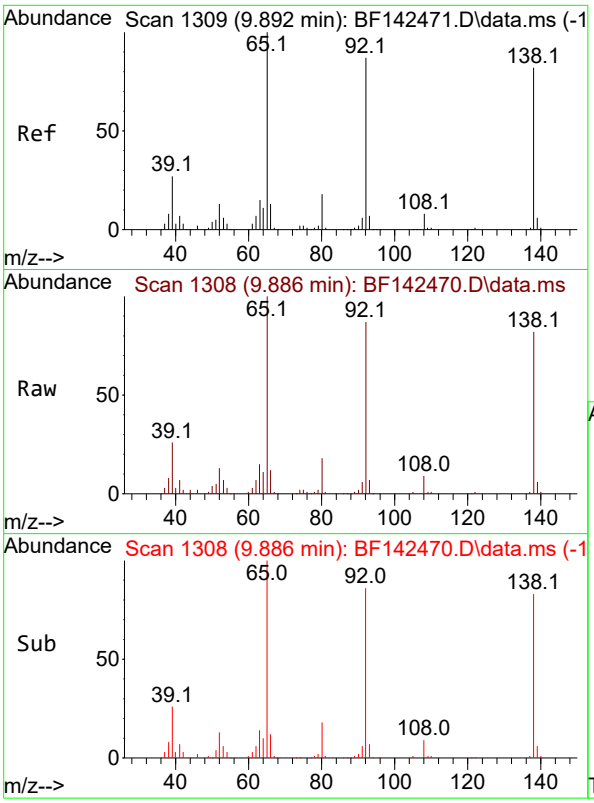


#52
Acenaphthene
Concen: 20.764 ng
RT: 9.975 min Scan# 1323
Delta R.T. -0.005 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:154 Resp: 250487

Ion	Ratio	Lower	Upper
154	100		
153	109.6	90.0	135.0
152	52.6	42.6	64.0



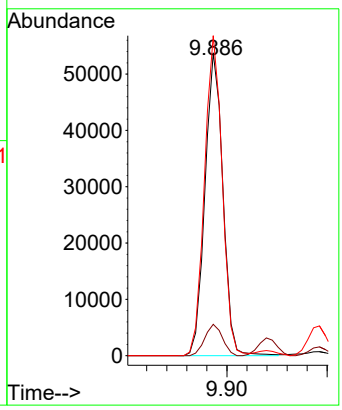


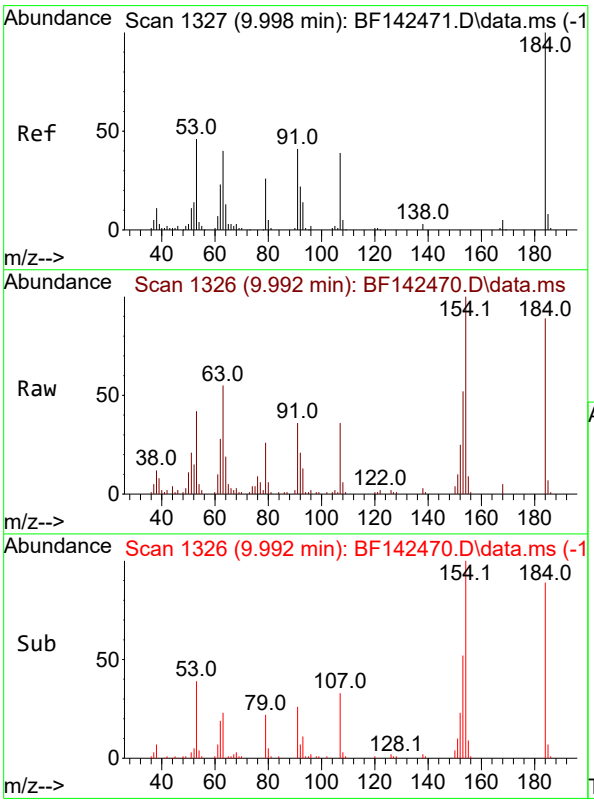
#53
3-Nitroaniline
Concen: 21.055 ng
RT: 9.886 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:138 Resp: 66847

Ion	Ratio	Lower	Upper
138	100		
108	10.4	8.1	12.1
92	105.6	85.2	127.8

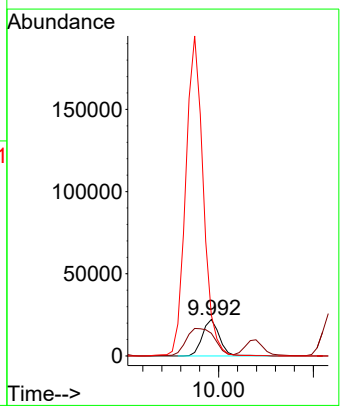


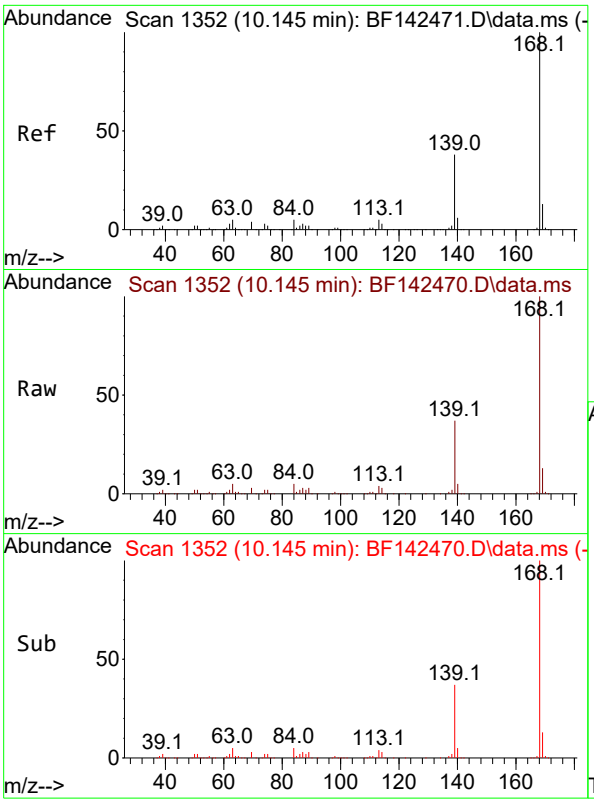


#54
2,4-Dinitrophenol
Concen: 18.553 ng
RT: 9.992 min Scan# 1326
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:184 Resp: 27863

Ion	Ratio	Lower	Upper
184	100		
63	62.4	46.3	69.5
154	112.6	56.8	85.2#



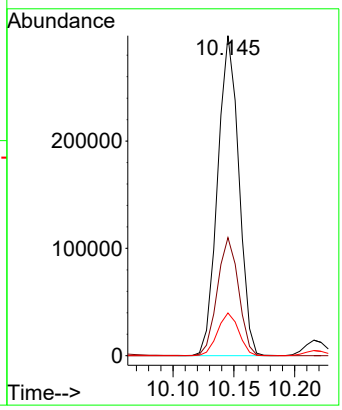


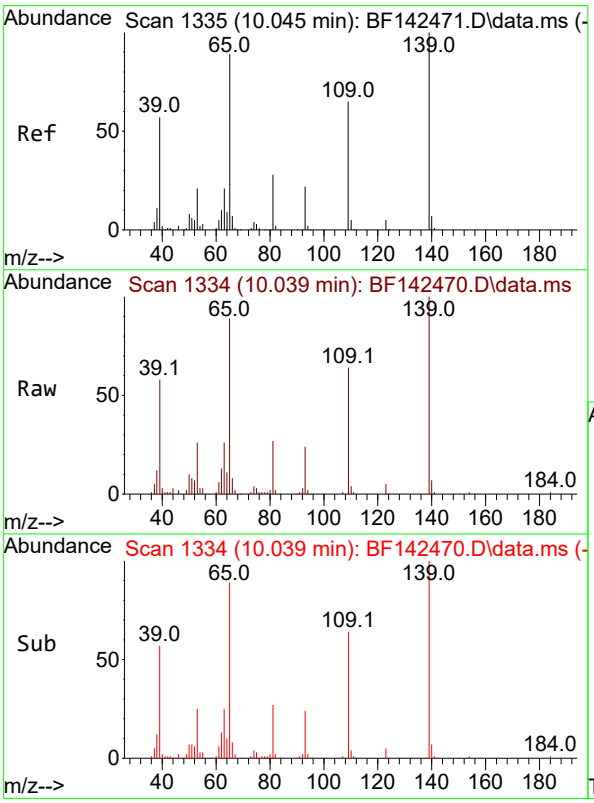
#55
Dibenzofuran
Concen: 20.792 ng
RT: 10.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:168 Resp: 360936

Ion	Ratio	Lower	Upper
168	100		
139	36.9	30.2	45.2
169	13.4	10.7	16.1

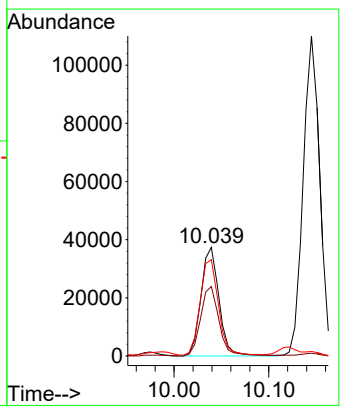


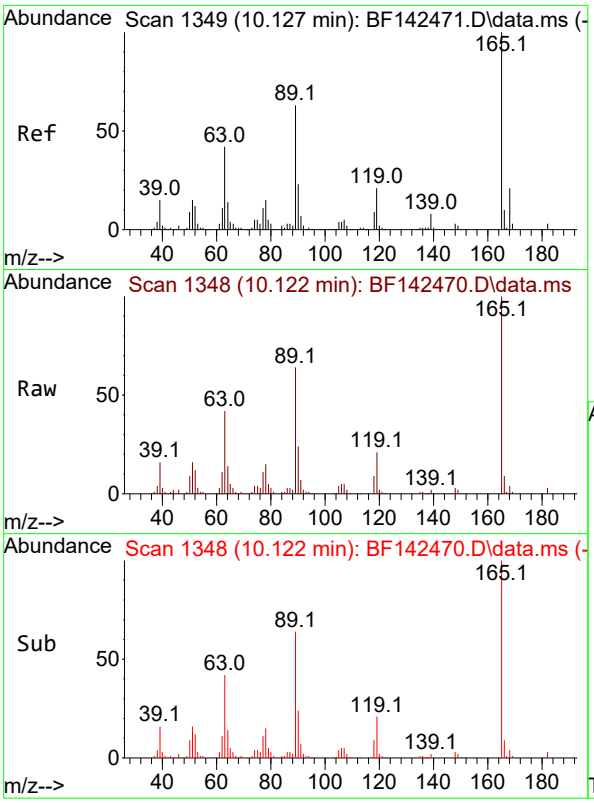


#56
4-Nitrophenol
Concen: 21.067 ng
RT: 10.039 min Scan# 1334
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:139 Resp: 49352

Ion	Ratio	Lower	Upper
139	100		
109	63.9	45.1	85.1
65	88.7	69.7	109.7



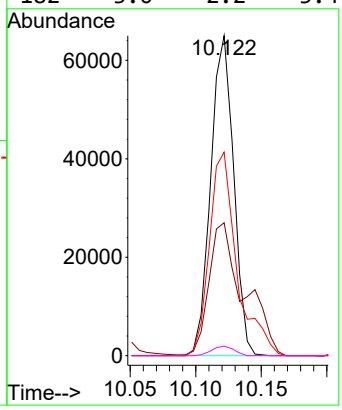


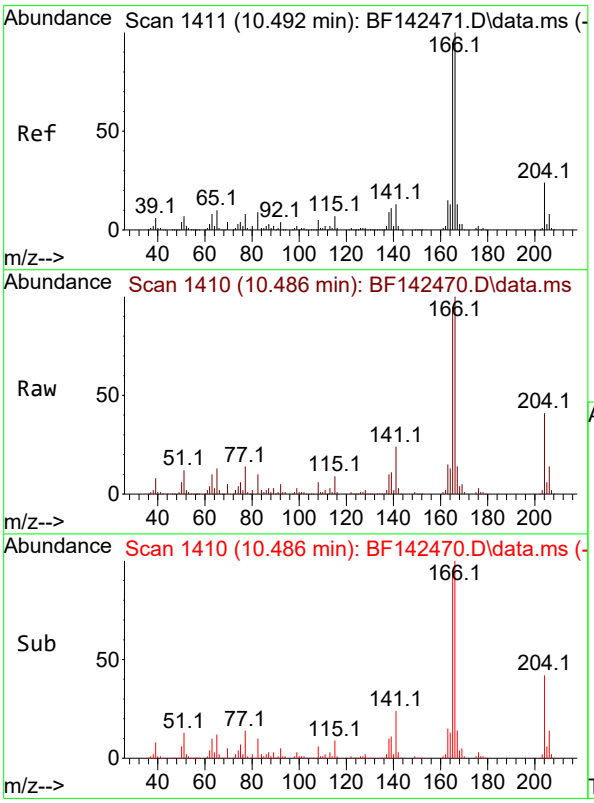
#57
2,4-Dinitrotoluene
Concen: 20.827 ng
RT: 10.122 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 79063

Ion	Ratio	Lower	Upper
165	100		
63	41.5	33.6	50.4
89	63.6	50.2	75.4
182	3.0	2.2	3.4

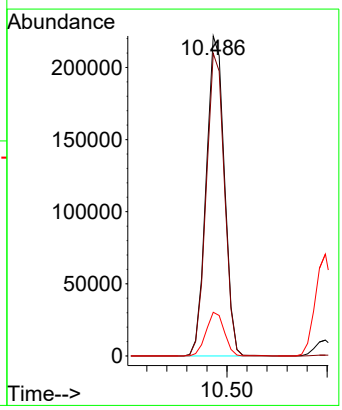


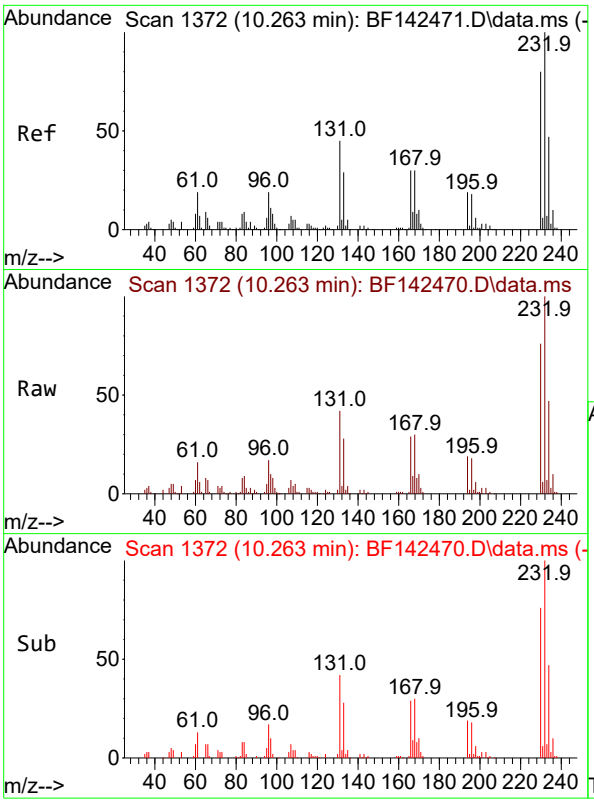


#58
Fluorene
Concen: 20.878 ng
RT: 10.486 min Scan# 1410
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:166 Resp: 279994

Ion	Ratio	Lower	Upper
166	100		
165	94.5	75.8	113.8
167	13.6	10.6	16.0



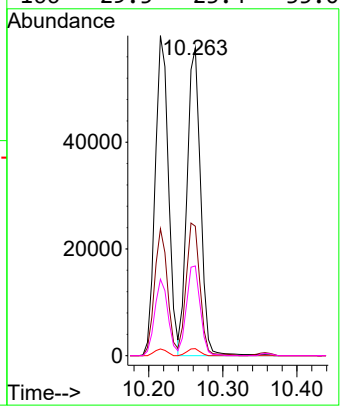


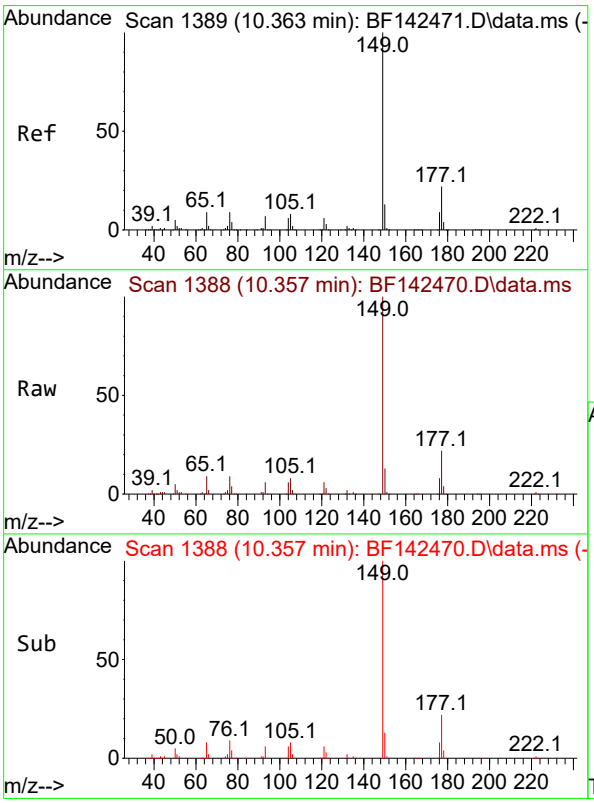
#59
2,3,4,6-Tetrachlorophenol
Concen: 21.140 ng
RT: 10.263 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:232 Resp: 73538

Ion	Ratio	Lower	Upper
232	100		
131	43.7	35.2	52.8
130	2.2	1.7	2.5
166	29.5	23.4	35.0

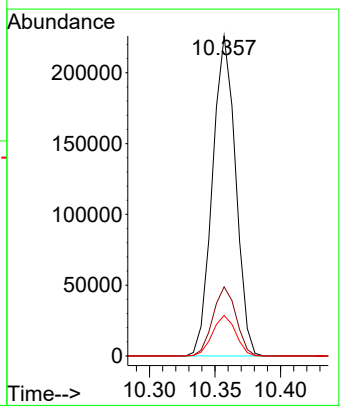


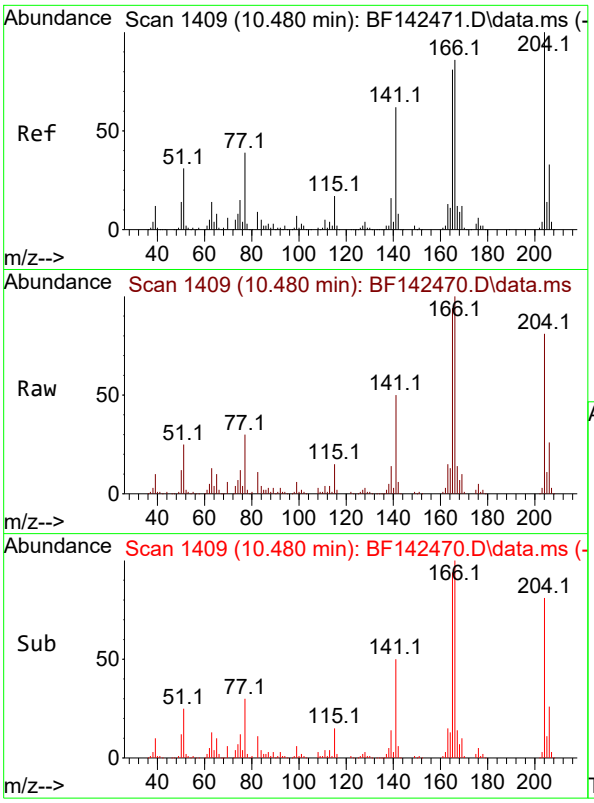


#60
Diethylphthalate
Concen: 21.084 ng
RT: 10.357 min Scan# 1388
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:149 Resp: 277325

Ion	Ratio	Lower	Upper
149	100		
177	21.6	17.6	26.4
150	12.7	10.1	15.1



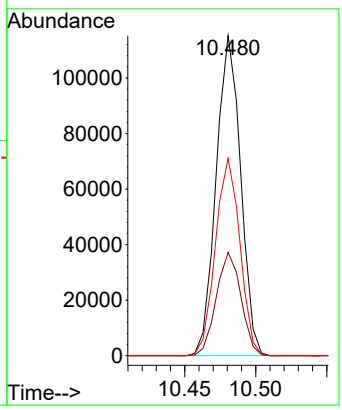


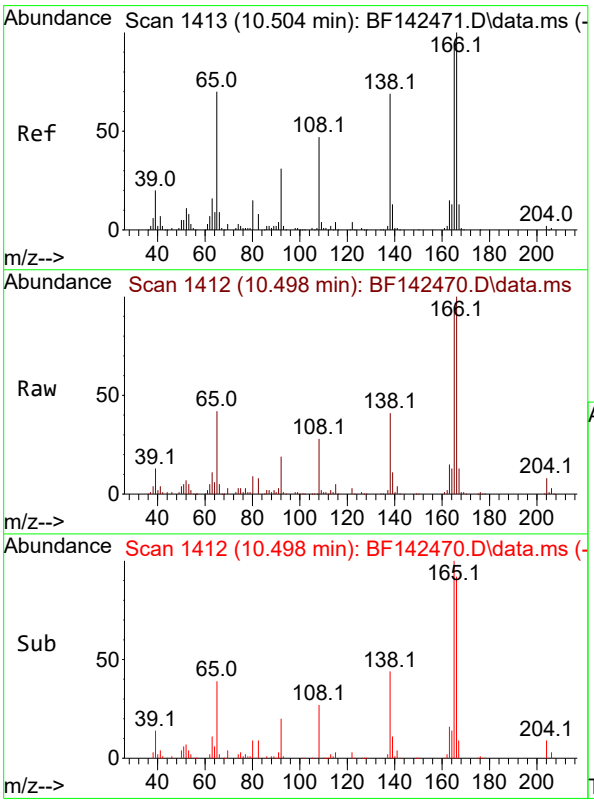
#61
4-Chlorophenyl-phenylether
Concen: 20.944 ng
RT: 10.480 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:204 Resp: 137985

Ion	Ratio	Lower	Upper
204	100		
206	32.3	26.3	39.5
141	61.7	49.5	74.3

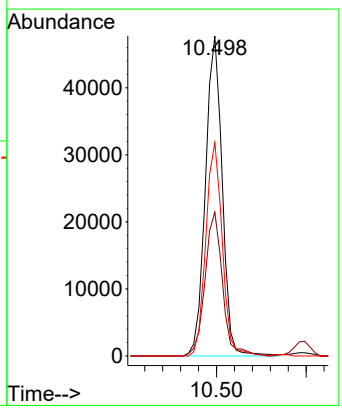


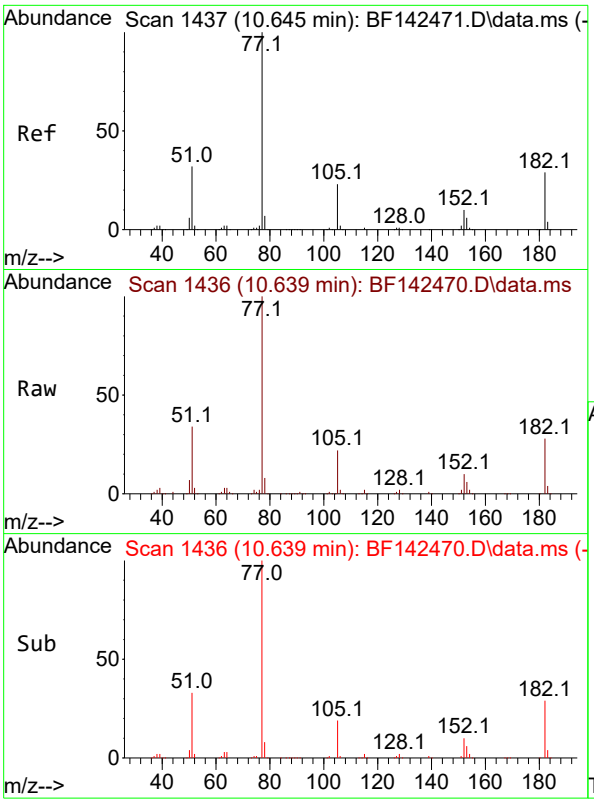


#62
4-Nitroaniline
Concen: 21.481 ng
RT: 10.498 min Scan# 1412
Delta R.T. -0.018 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:138 Resp: 61856

Ion	Ratio	Lower	Upper
138	100		
92	44.9	26.0	66.0
108	66.7	48.4	88.4



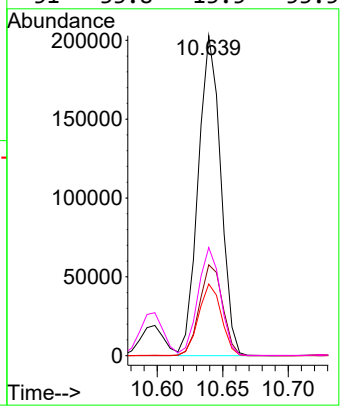


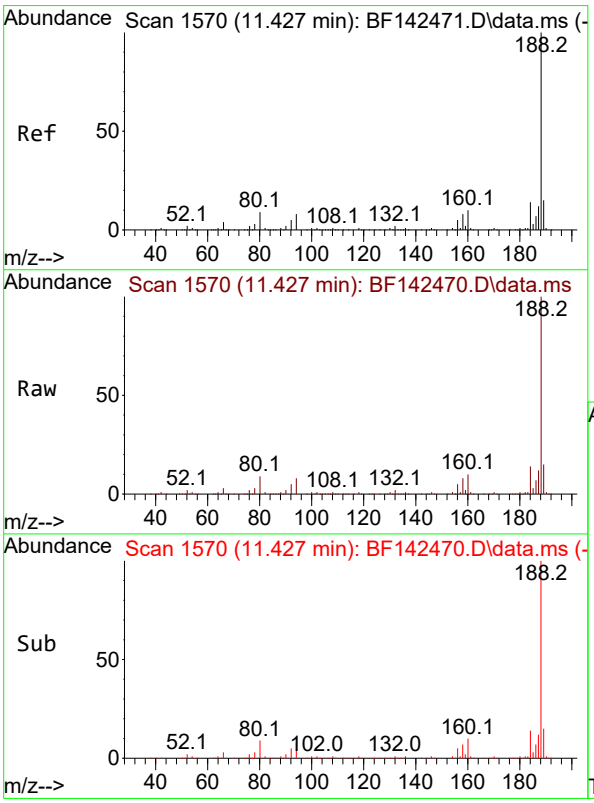
#63
Azobenzene
Concen: 20.530 ng
RT: 10.639 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 242545

Ion	Ratio	Lower	Upper
77	100		
182	28.4	9.0	49.0
105	22.4	2.4	42.4
51	33.8	13.5	53.5

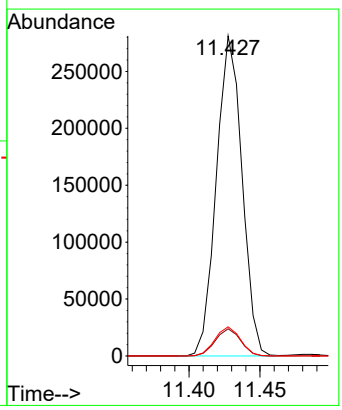


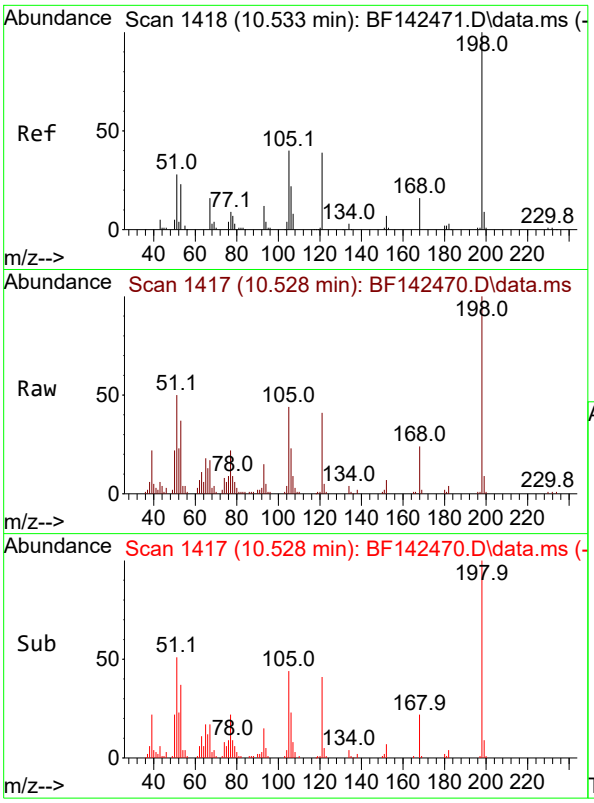


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:188 Resp: 353003

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.6	10.0
80	9.1	7.4	11.0



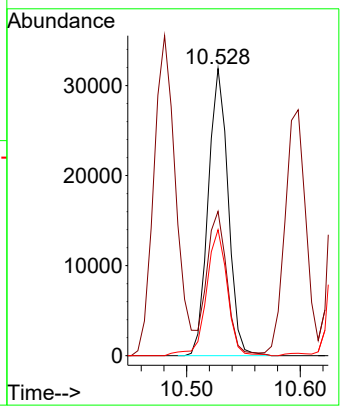


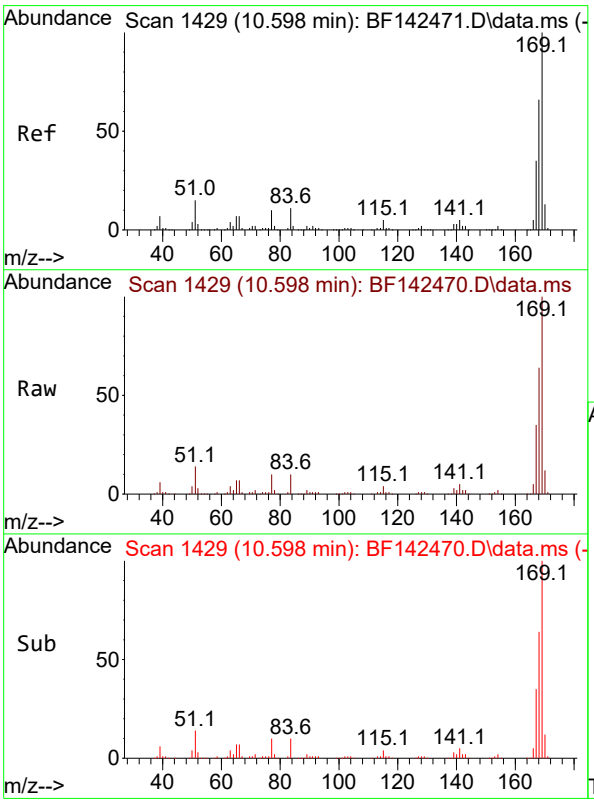
#65
4,6-Dinitro-2-methylphenol
Concen: 19.673 ng
RT: 10.528 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:198 Resp: 38757

Ion	Ratio	Lower	Upper
198	100		
51	50.3	28.3	68.3
105	43.9	21.3	61.3

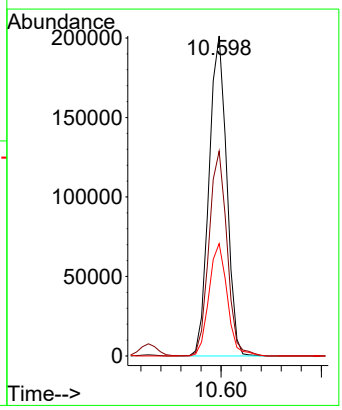


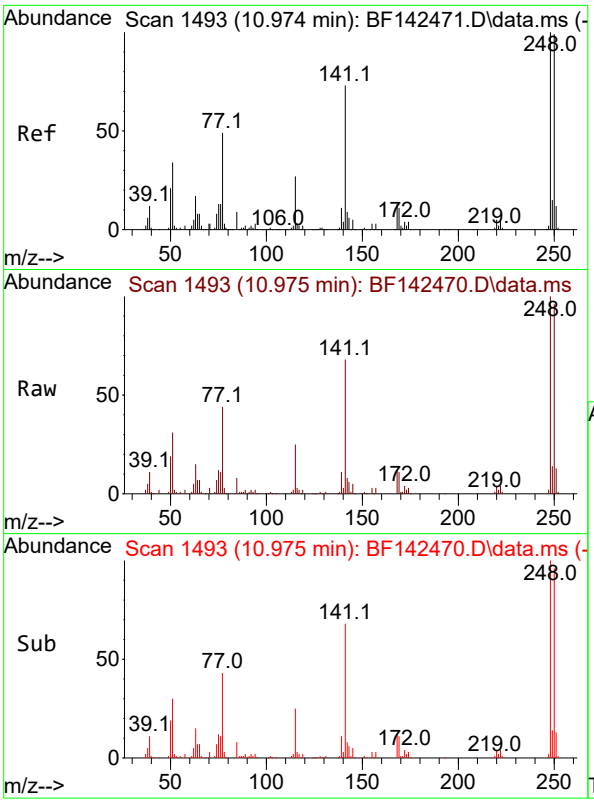


#66
n-Nitrosodiphenylamine
Concen: 20.348 ng
RT: 10.598 min Scan# 1429
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:169 Resp: 245739

Ion	Ratio	Lower	Upper
169	100		
168	64.0	52.7	79.1
167	35.1	28.3	42.5



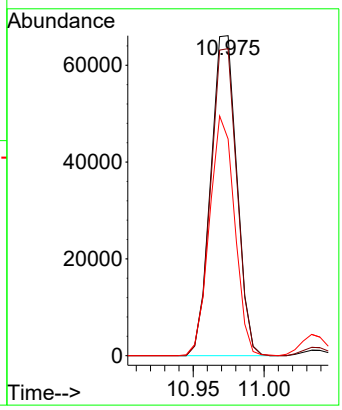


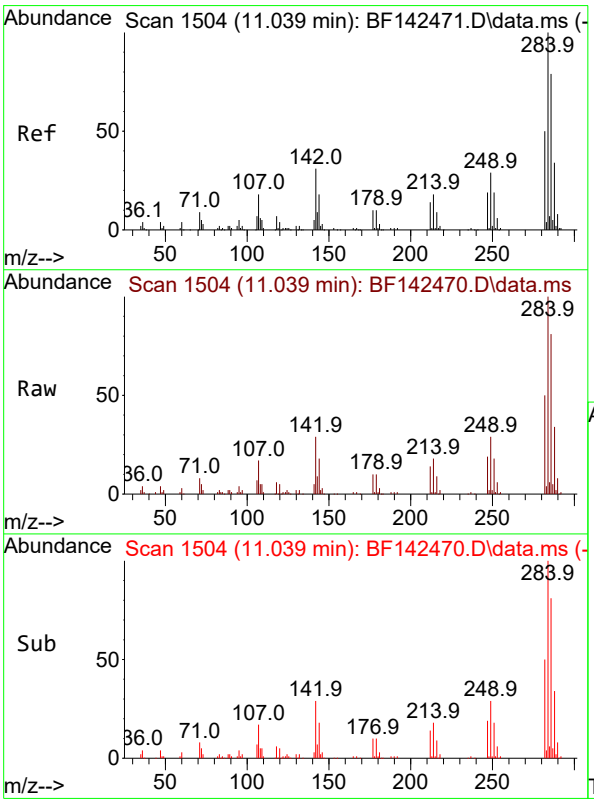
#67
4-Bromophenyl-phenylether
Concen: 20.222 ng
RT: 10.975 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:248 Resp: 84406

Ion	Ratio	Lower	Upper
248	100		
250	95.9	79.0	118.4
141	67.7	58.4	87.6

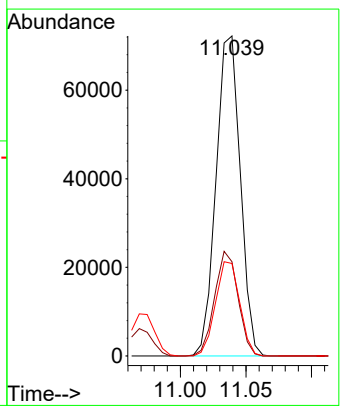


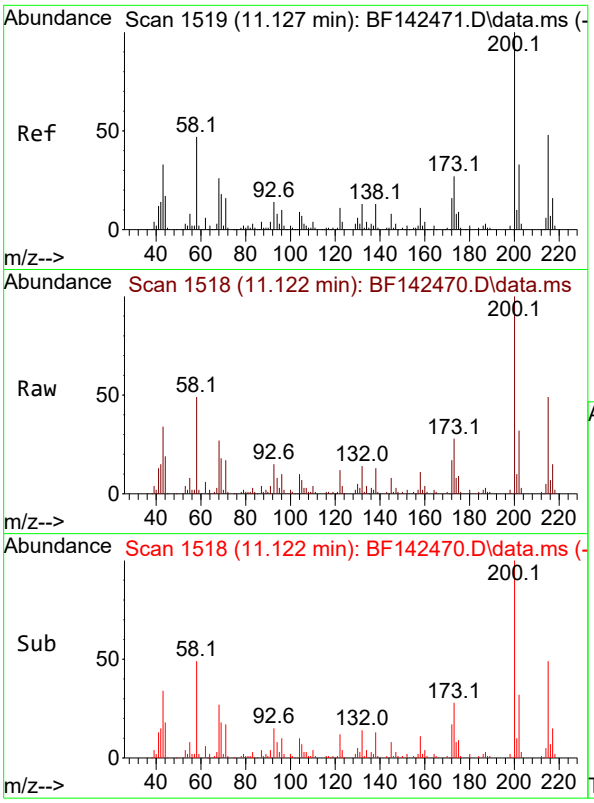


#68
Hexachlorobenzene
Concen: 20.102 ng
RT: 11.039 min Scan# 1504
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:284 Resp: 92803

Ion	Ratio	Lower	Upper
284	100		
142	29.4	24.8	37.2
249	28.9	23.6	35.4



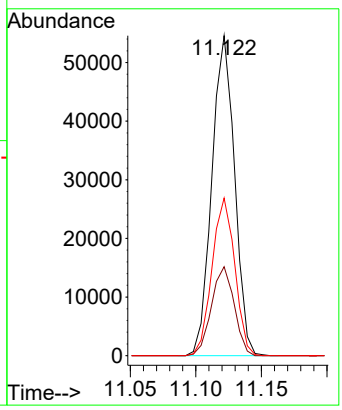


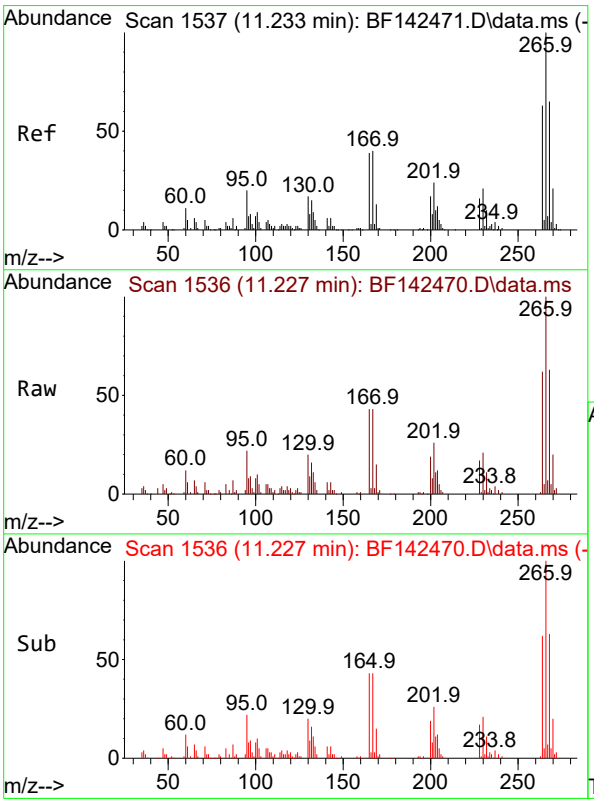
#69
Atrazine
Concen: 20.471 ng
RT: 11.122 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:200 Resp: 65656

Ion	Ratio	Lower	Upper
200	100		
173	27.8	7.4	47.4
215	49.2	28.5	68.5

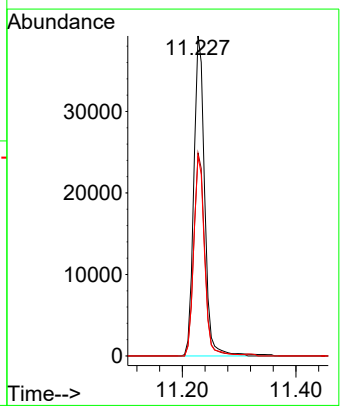


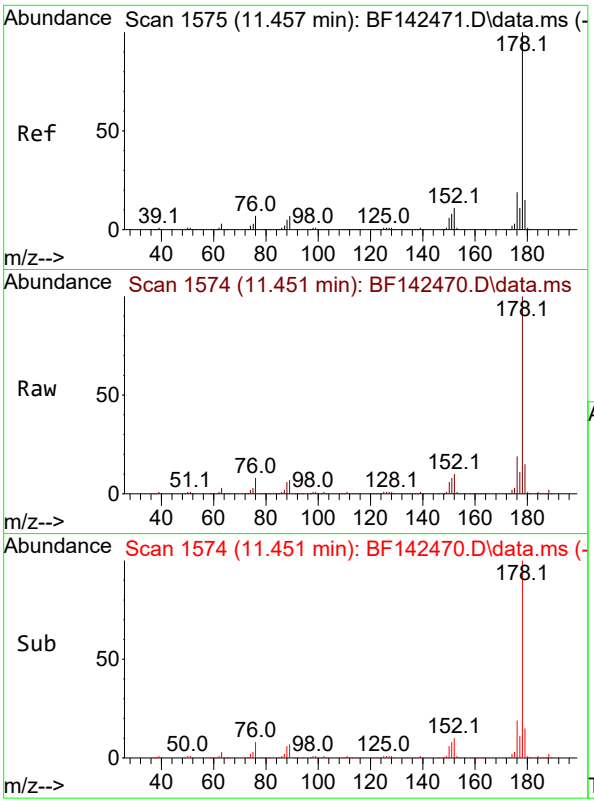


#70
Pentachlorophenol
Concen: 20.152 ng
RT: 11.227 min Scan# 1536
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:266 Resp: 52525

Ion	Ratio	Lower	Upper
266	100		
268	63.4	51.7	77.5
264	62.5	50.4	75.6



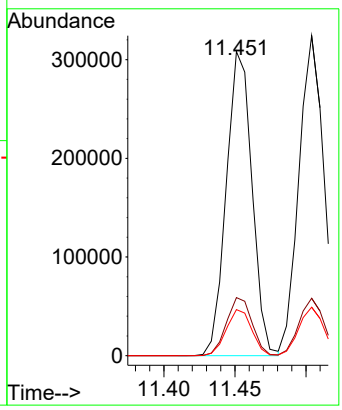


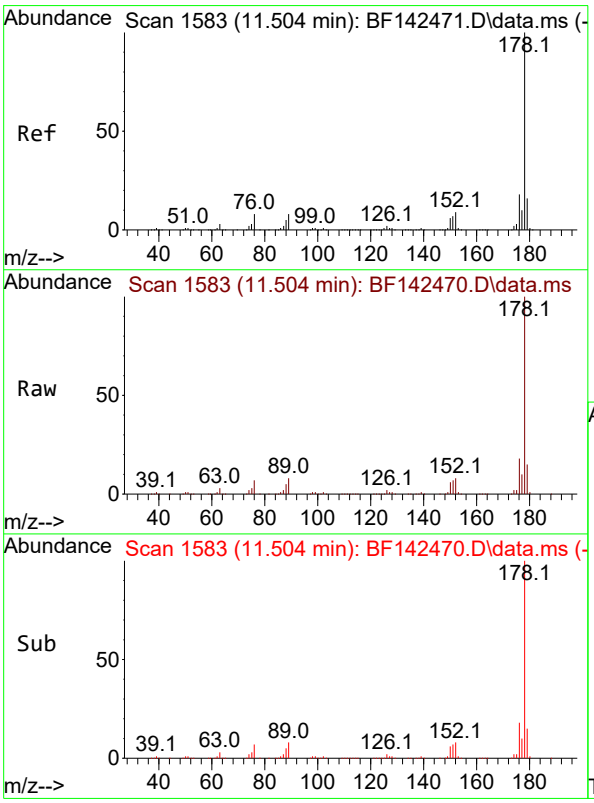
#71
Phenanthrene
Concen: 20.584 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:178 Resp: 388317

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	15.2	12.3	18.5

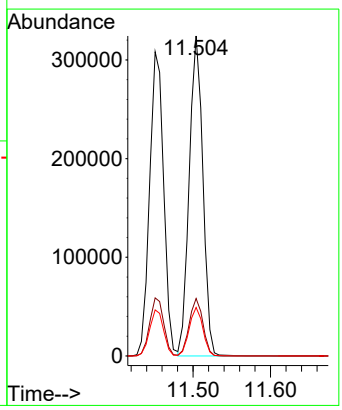


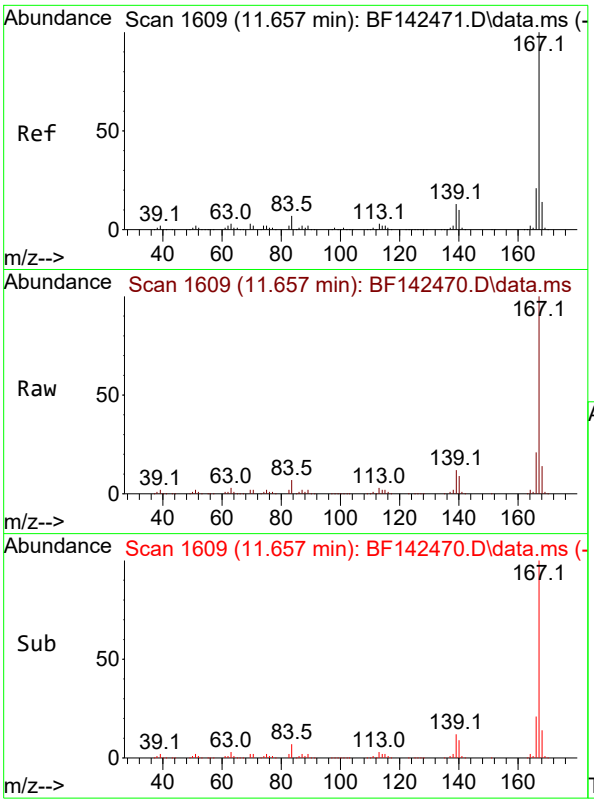


#72
Anthracene
Concen: 20.604 ng
RT: 11.504 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:178 Resp: 396704

Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.6	21.8
179	15.2	12.4	18.6



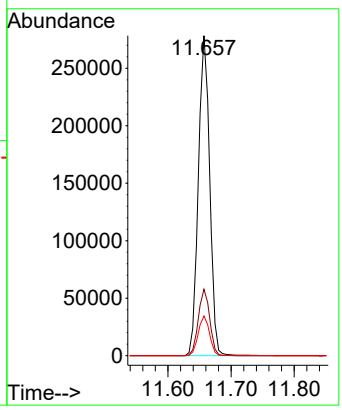


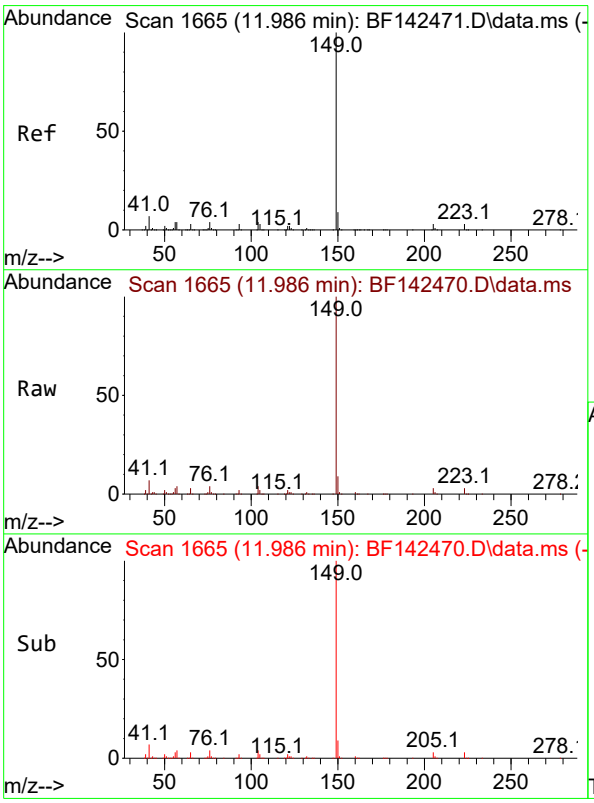
#73
Carbazole
Concen: 21.055 ng
RT: 11.657 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:167 Resp: 346558

Ion	Ratio	Lower	Upper
167	100		
166	20.8	16.9	25.3
139	12.4	10.2	15.4

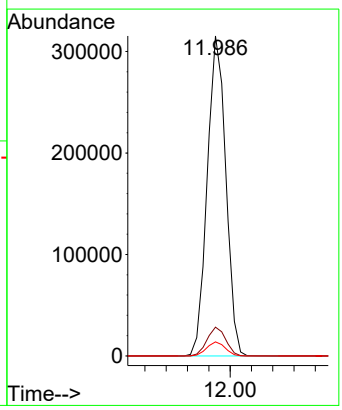


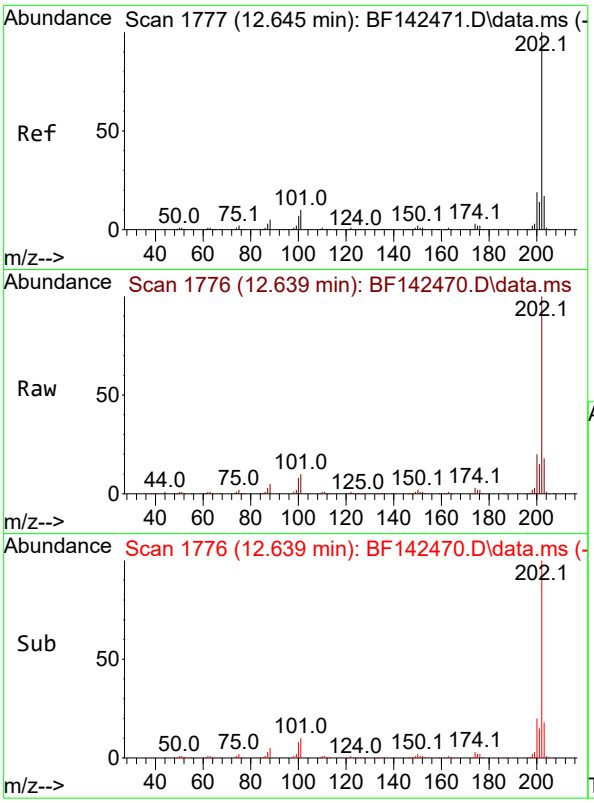


#74
Di-n-butylphthalate
Concen: 21.221 ng
RT: 11.986 min Scan# 1665
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:149 Resp: 382324

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.3	10.9
104	4.4	3.6	5.4



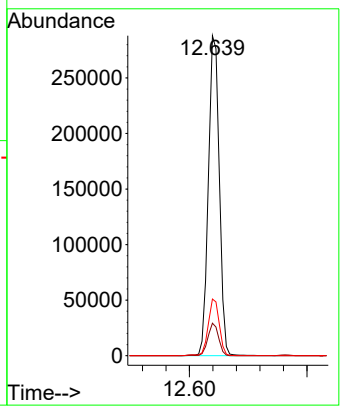


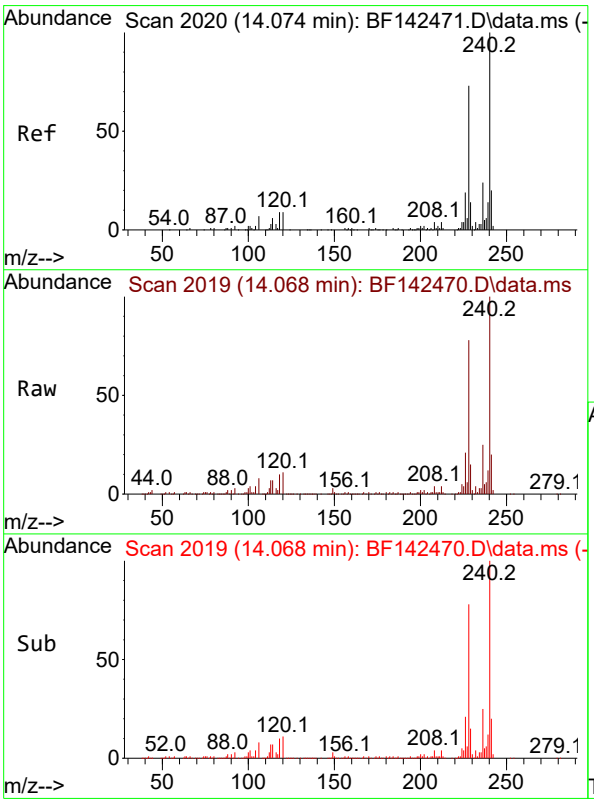
#75
Fluoranthene
Concen: 21.059 ng
RT: 12.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:202 Resp: 371226

Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	29.6
203	17.7	0.0	37.2

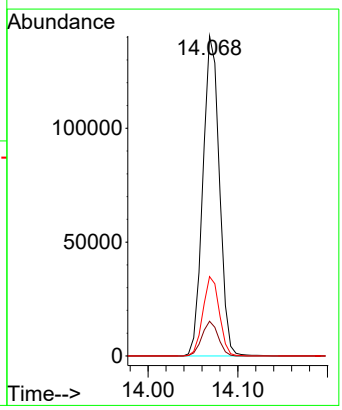


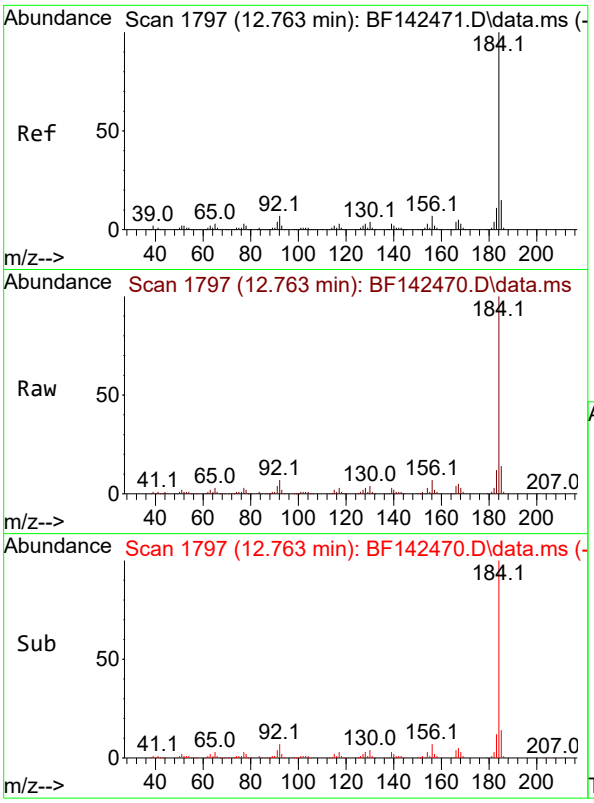


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:240 Resp: 179495

Ion	Ratio	Lower	Upper
240	100		
120	10.9	7.5	11.3
236	24.8	19.6	29.4



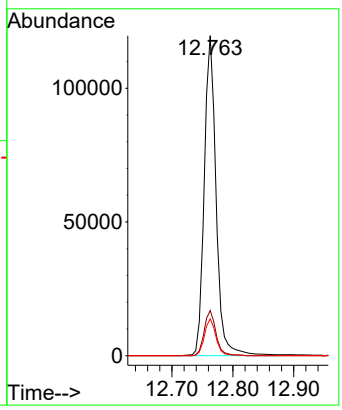


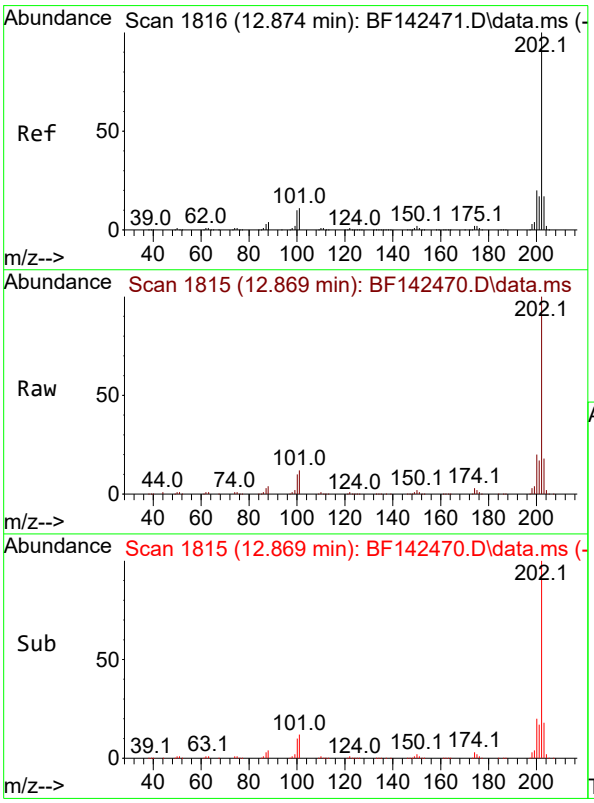
#77
Benzidine
Concen: 24.258 ng
RT: 12.763 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:184 Resp: 162031

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.6	17.4
183	11.5	9.0	13.4

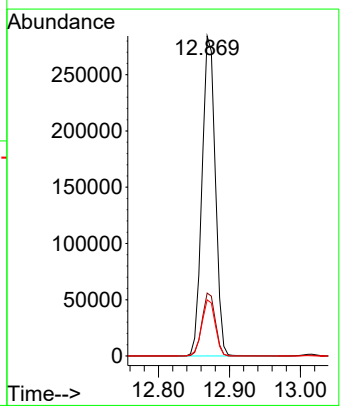


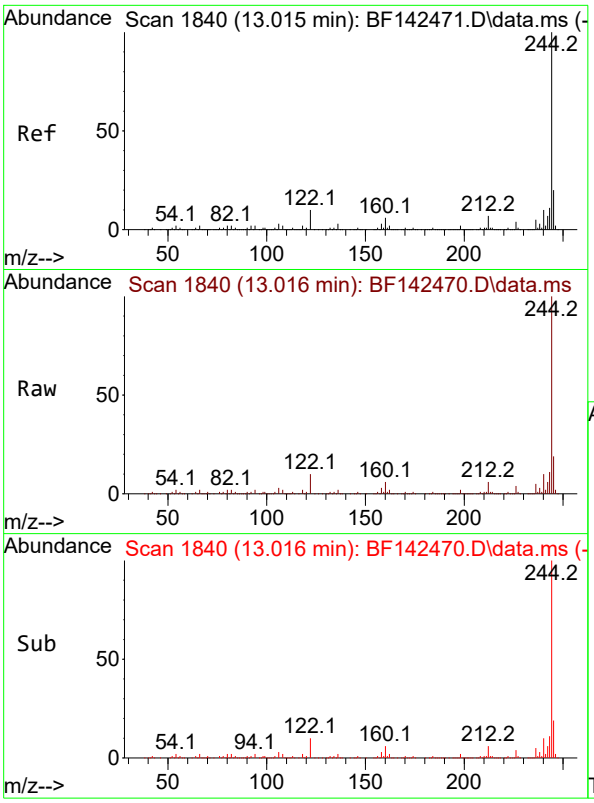


#78
Pyrene
Concen: 22.144 ng
RT: 12.869 min Scan# 1815
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:202 Resp: 370789

Ion	Ratio	Lower	Upper
202	100		
200	19.7	16.1	24.1
203	17.6	13.9	20.9



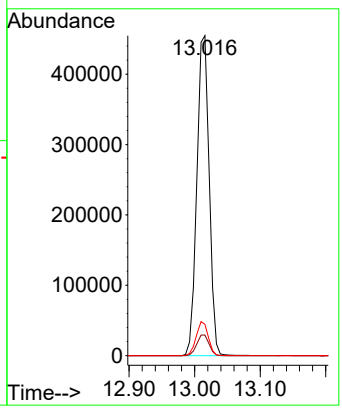


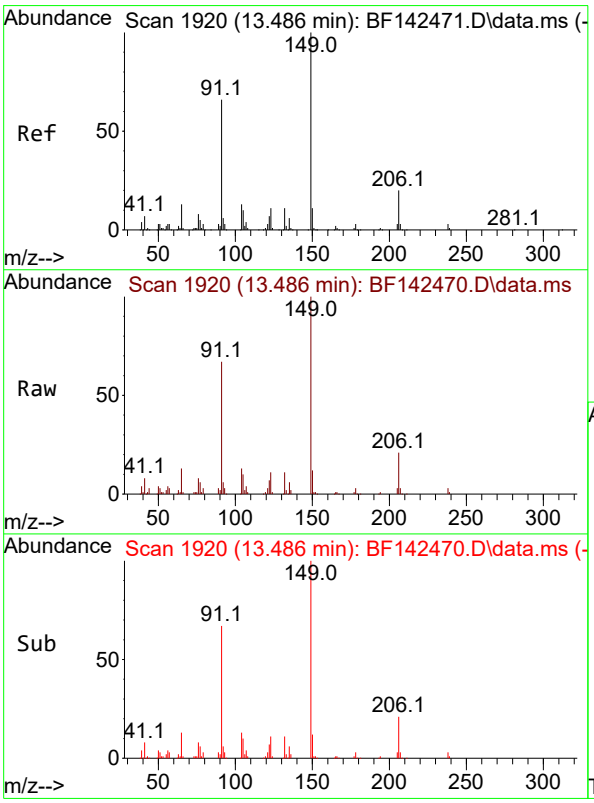
#79
Terphenyl-d14
Concen: 45.382 ng
RT: 13.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:244 Resp: 596097

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.3	7.9
122	9.8	8.2	12.2

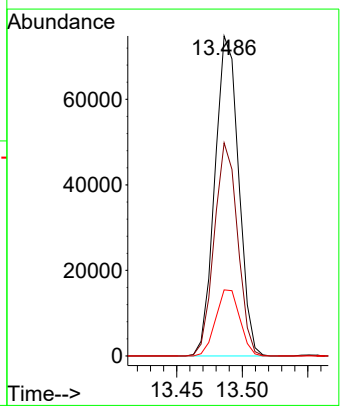


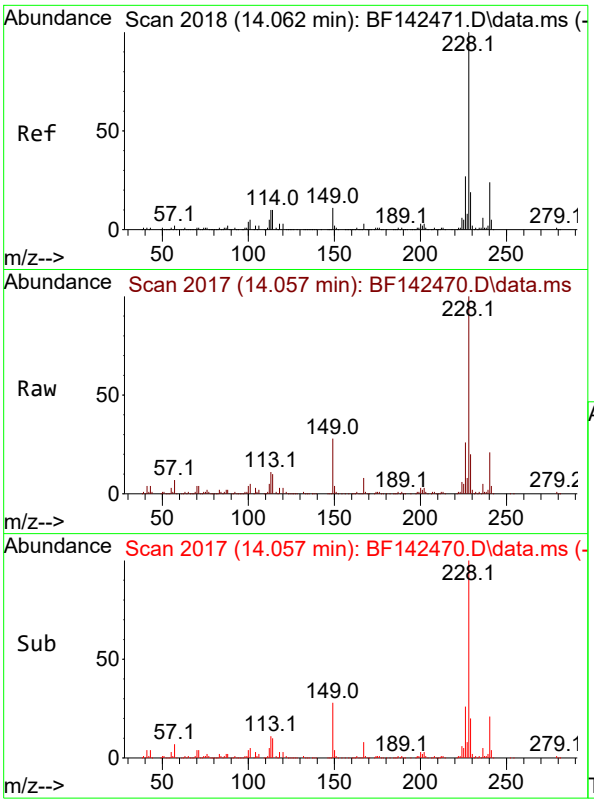


#80
Butylbenzylphthalate
Concen: 20.379 ng
RT: 13.486 min Scan# 1920
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:149 Resp: 94290

Ion	Ratio	Lower	Upper
149	100		
91	66.6	52.9	79.3
206	20.7	16.2	24.2



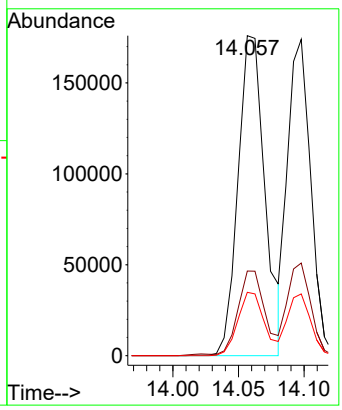


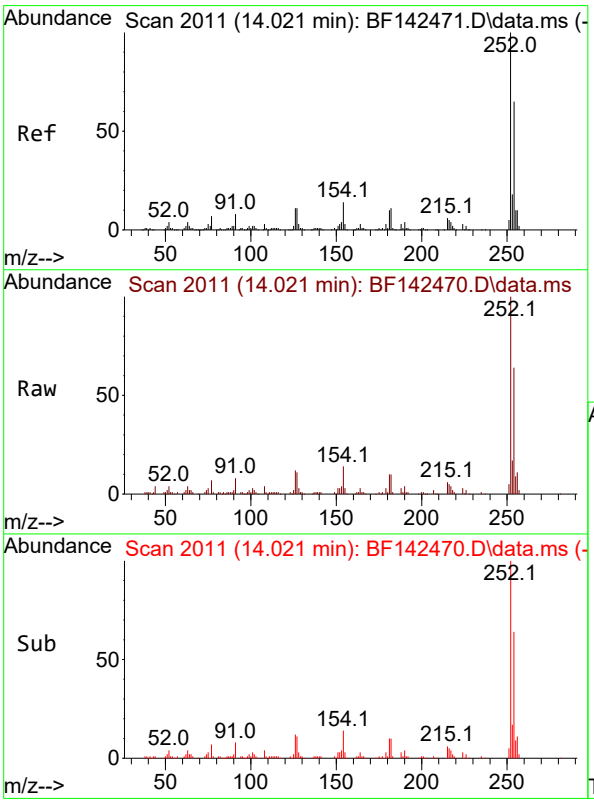
#81
Benzo(a)anthracene
Concen: 21.013 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 251858

Ion	Ratio	Lower	Upper
228	100		
226	26.5	21.2	31.8
229	19.8	15.5	23.3

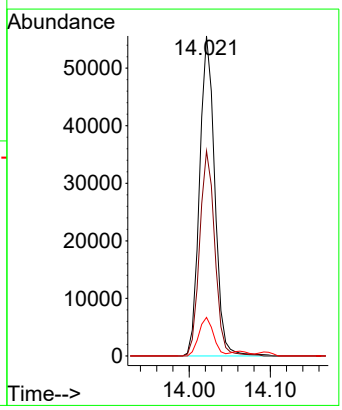


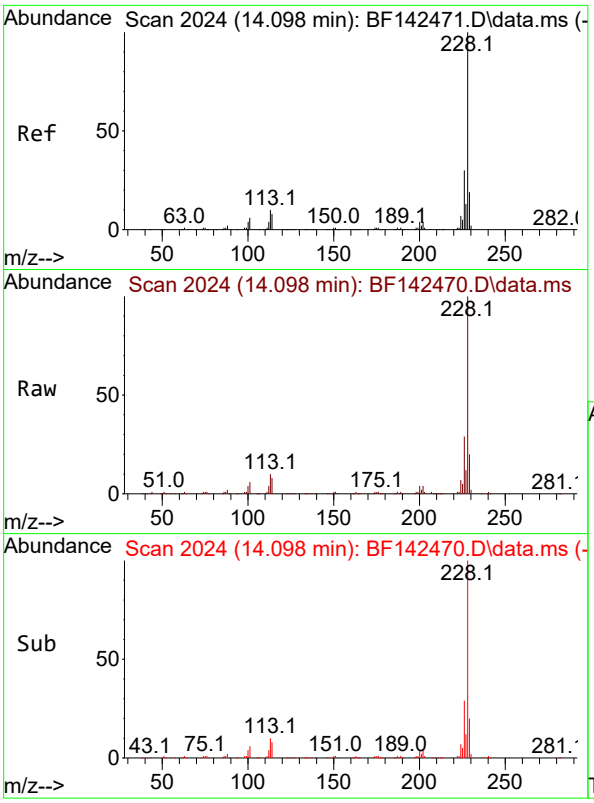


#82
3,3'-Dichlorobenzidine
Concen: 19.865 ng
RT: 14.021 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:252 Resp: 72218

Ion	Ratio	Lower	Upper
252	100		
254	64.1	52.0	78.0
126	12.1	8.9	13.3



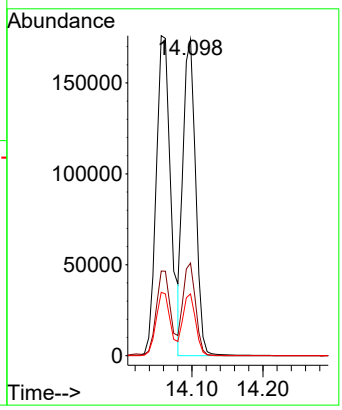


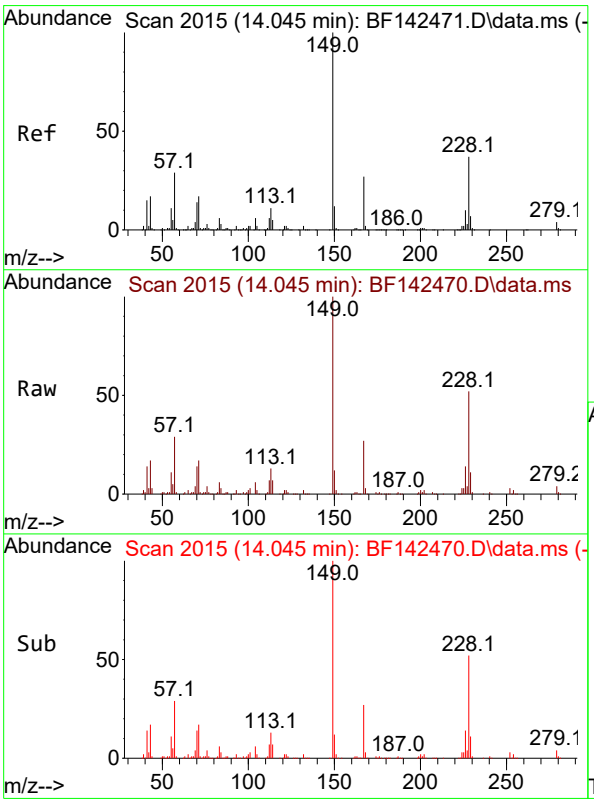
#83
Chrysene
Concen: 19.890 ng
RT: 14.098 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 214213

Ion	Ratio	Lower	Upper
228	100		
226	29.3	23.8	35.6
229	19.5	15.4	23.2

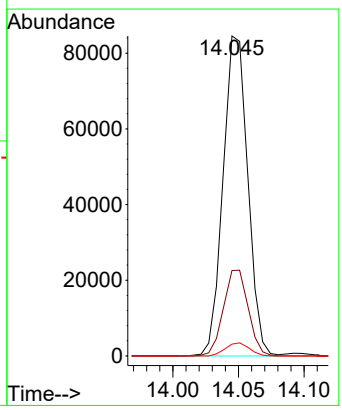


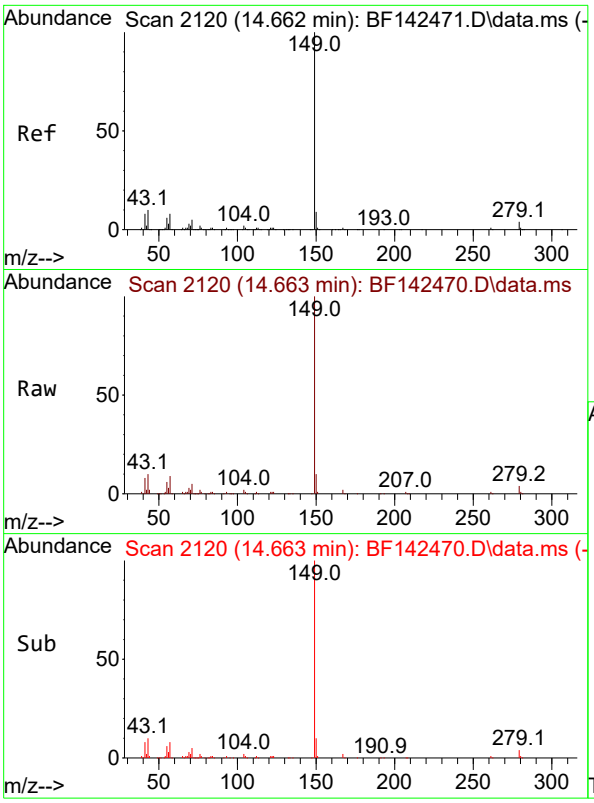


#84
Bis(2-ethylhexyl)phthalate
Concen: 18.743 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:149 Resp: 111015

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.5	32.3
279	3.7	3.2	4.8



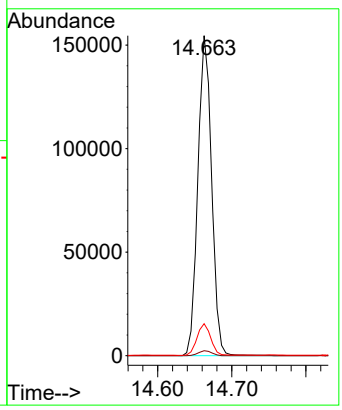


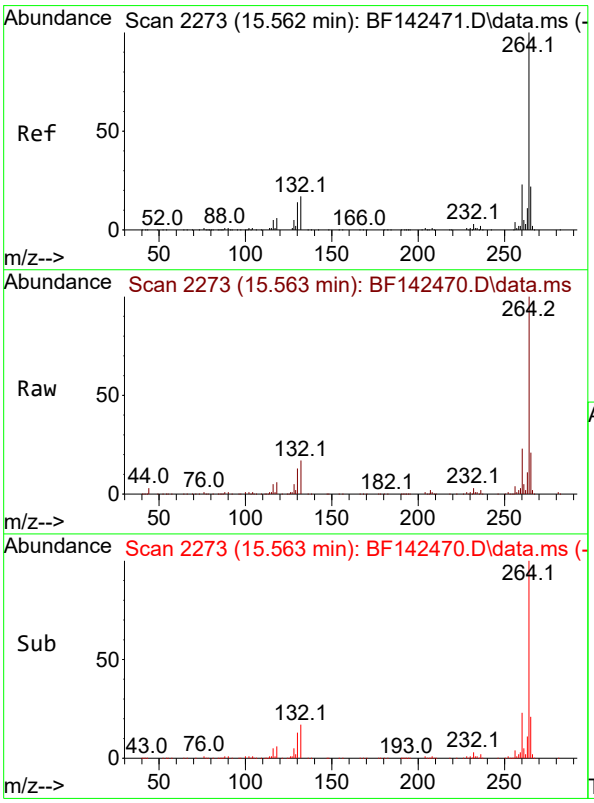
#85
Di-n-octyl phthalate
Concen: 17.166 ng
RT: 14.663 min Scan# 21
Delta R.T. -0.005 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:149 Resp: 198800

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	9.9	7.9	11.9

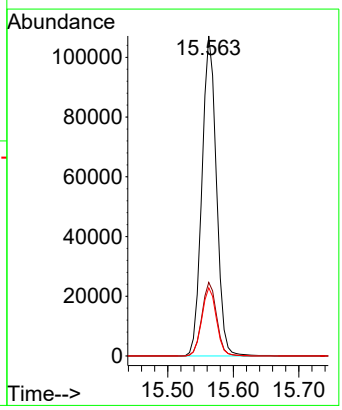


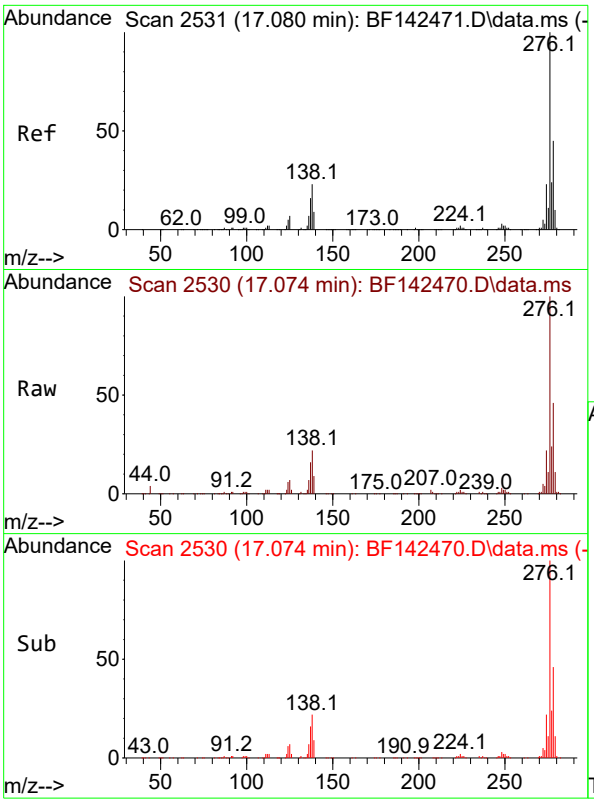


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:264 Resp: 165092

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.6	28.0
265	21.3	17.7	26.5



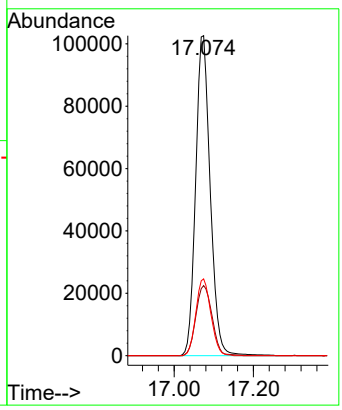


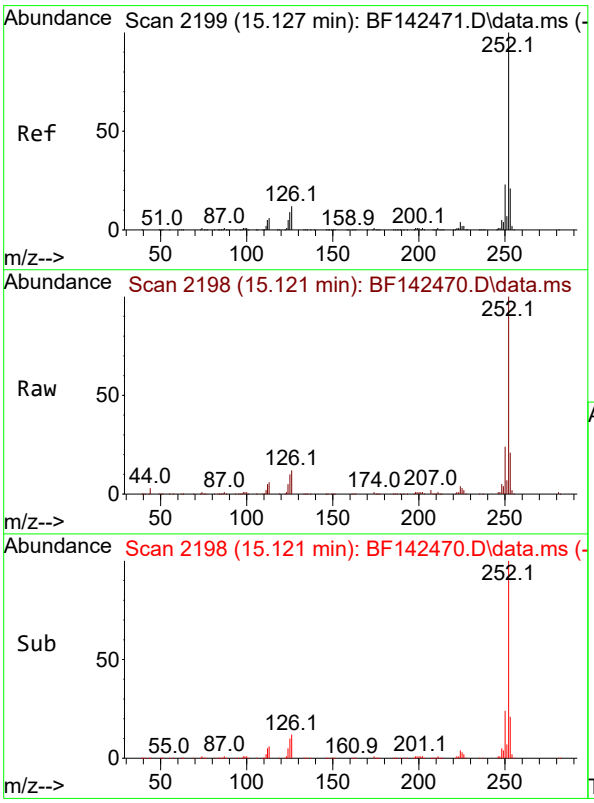
#87
Indeno(1,2,3-cd)pyrene
Concen: 21.080 ng
RT: 17.074 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:276 Resp: 261271

Ion	Ratio	Lower	Upper
276	100		
138	24.3	19.9	29.9
277	24.7	20.2	30.2

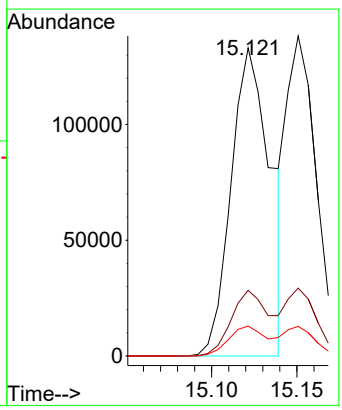


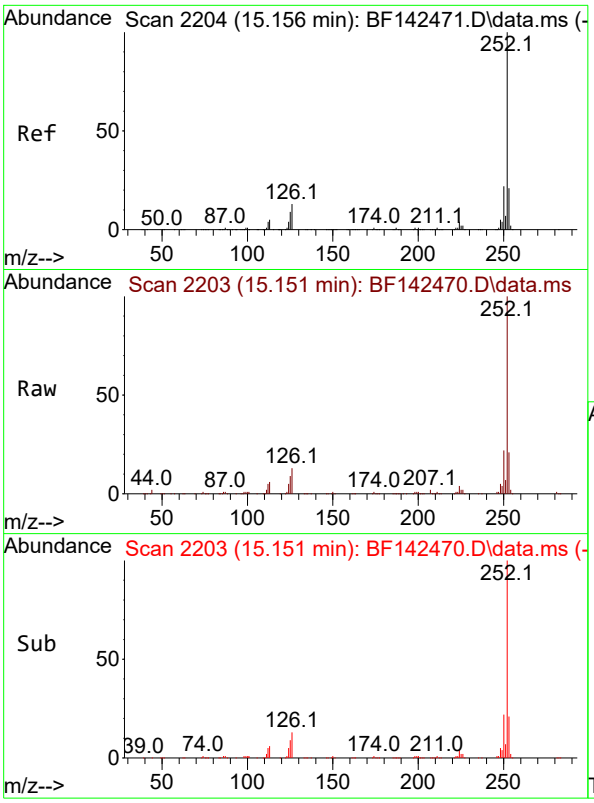


#88
Benzo(b)fluoranthene
Concen: 21.849 ng
RT: 15.121 min Scan# 2198
Delta R.T. -0.006 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:252 Resp: 213487

Ion	Ratio	Lower	Upper
252	100		
253	21.3	17.0	25.4
125	9.7	7.4	11.0



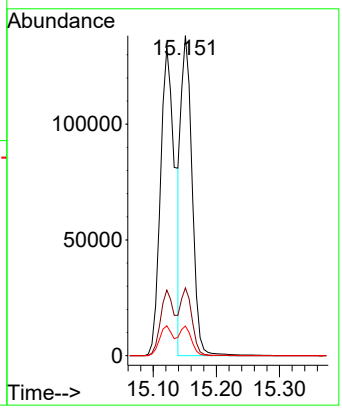


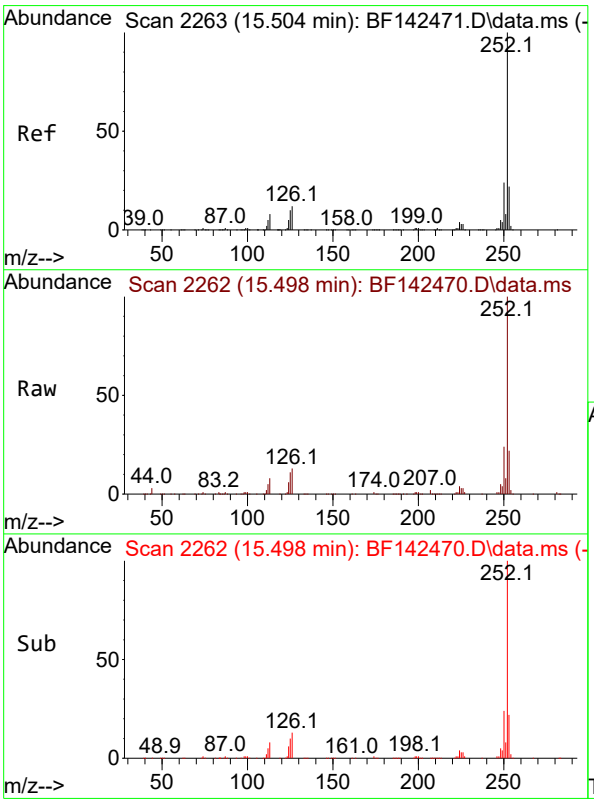
#89
Benzo(k)fluoranthene
Concen: 18.611 ng
RT: 15.151 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:252 Resp: 170316

Ion	Ratio	Lower	Upper
252	100		
253	21.2	17.0	25.4
125	9.3	7.3	10.9

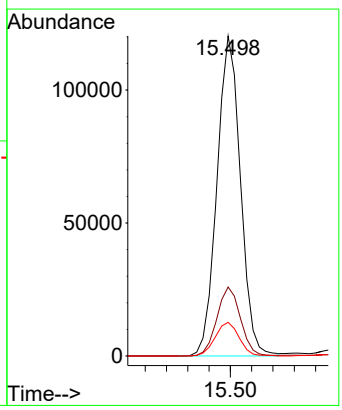


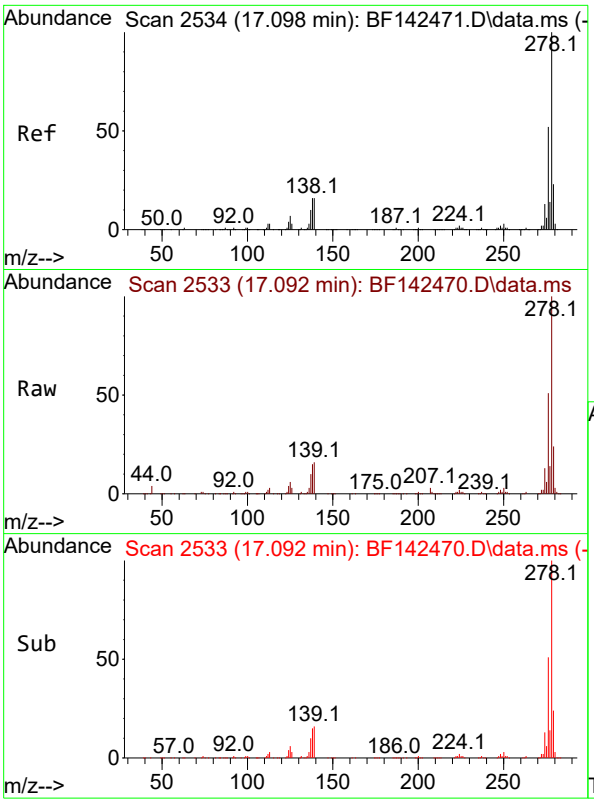


#90
Benzo(a)pyrene
Concen: 19.976 ng
RT: 15.498 min Scan# 2262
Delta R.T. -0.012 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:252 Resp: 183983

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.4	26.0
125	10.5	7.9	11.9



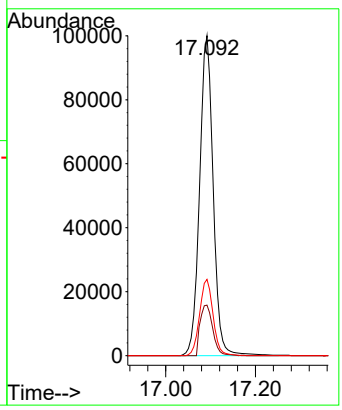


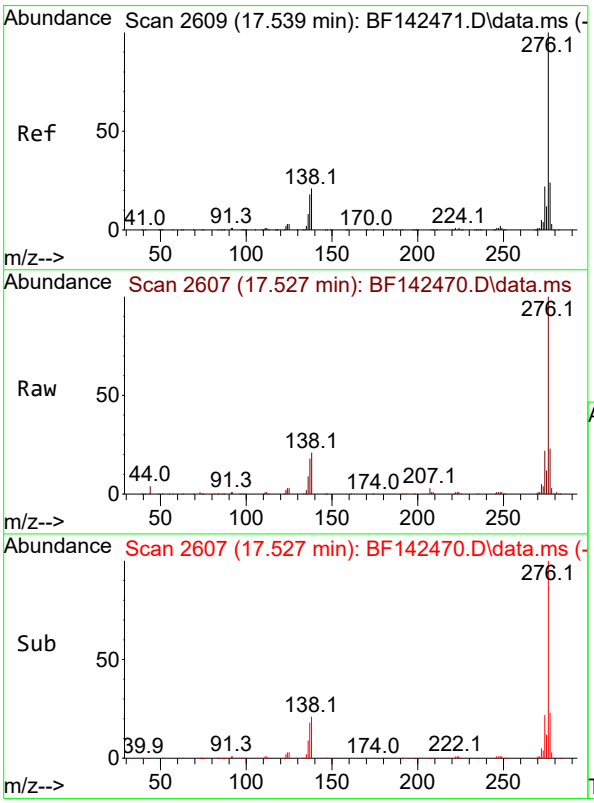
#91
Dibenzo(a,h)anthracene
Concen: 20.946 ng
RT: 17.092 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:278 Resp: 210557

Ion	Ratio	Lower	Upper
278	100		
139	15.8	12.8	19.2
279	23.8	18.6	28.0

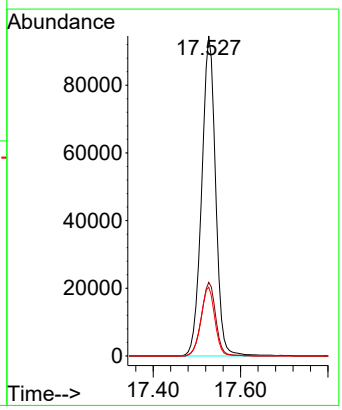




#92
Benzo(g,h,i)perylene
Concen: 20.859 ng
RT: 17.527 min Scan# 2607
Delta R.T. -0.029 min
Lab File: BF142470.D
Acq: 20 May 2025 13:36

Tgt Ion:276 Resp: 209719

Ion	Ratio	Lower	Upper
276	100		
277	23.0	19.2	28.8
138	21.5	16.8	25.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142471.D
Acq On : 20 May 2025 14:05
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: May 20 16:55:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	97580	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	377433	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	206343	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	343068	20.000	ng	0.00
76) Chrysene-d12	14.074	240	169022	20.000	ng	0.00
86) Perylene-d12	15.562	264	189289	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	439258	75.840	ng	0.00
7) Phenol-d6	6.522	99	533569	76.529	ng	-0.01
23) Nitrobenzene-d5	7.463	82	537832	77.702	ng	-0.01
42) 2,4,6-Tribromophenol	10.733	330	174483	76.189	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	1144883	74.452	ng	0.00
79) Terphenyl-d14	13.015	244	962300	77.802	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.669	88	89364	38.557	ng	100
3) Pyridine	3.440	79	228376	38.694	ng	100
4) n-Nitrosodimethylamine	3.387	42	120777	39.412	ng	100
6) Aniline	6.563	93	359784	38.378	ng	100
8) 2-Chlorophenol	6.686	128	244270	38.720	ng	100
9) Benzaldehyde	6.451	77	159492	38.033	ng	100
10) Phenol	6.539	94	298690	38.073	ng	100
11) bis(2-Chloroethyl)ether	6.634	93	216144	38.275	ng	100
12) 1,3-Dichlorobenzene	6.839	146	271118	38.514	ng	100
13) 1,4-Dichlorobenzene	6.916	146	274616	38.727	ng	100
14) 1,2-Dichlorobenzene	7.069	146	258896	38.156	ng	100
15) Benzyl Alcohol	7.039	79	199176	38.657	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.175	45	364537	38.439	ng	100
17) 2-Methylphenol	7.145	107	190501	38.677	ng	100
18) Hexachloroethane	7.416	117	95436	38.543	ng	100
19) n-Nitroso-di-n-propyla...	7.310	70	164556	38.083	ng	100
20) 3+4-Methylphenols	7.304	107	243075	38.538	ng	100
22) Acetophenone	7.310	105	323676	38.740	ng	100
24) Nitrobenzene	7.486	77	243446	38.996	ng	100
25) Isophorone	7.722	82	447323	38.653	ng	100
26) 2-Nitrophenol	7.798	139	132248	39.646	ng	100
27) 2,4-Dimethylphenol	7.833	122	228588	38.858	ng	100
28) bis(2-Chloroethoxy)met...	7.933	93	274724	38.002	ng	100
29) 2,4-Dichlorophenol	8.039	162	208444	38.963	ng	100
30) 1,2,4-Trichlorobenzene	8.128	180	222613	38.342	ng	100
31) Naphthalene	8.210	128	710368	38.223	ng	100
32) Benzoic acid	7.939	122	142061	39.672	ng	100
33) 4-Chloroaniline	8.251	127	293373	38.957	ng	100
34) Hexachlorobutadiene	8.322	225	141200	38.949	ng	100
35) Caprolactam	8.622	113	59309	39.473	ng	100
36) 4-Chloro-3-methylphenol	8.728	107	212728	38.800	ng	100
37) 2-Methylnaphthalene	8.898	142	445368	38.092	ng	100
38) 1-Methylnaphthalene	8.998	142	464365	38.397	ng	100
40) 1,2,4,5-Tetrachloroben...	9.063	216	227685	38.439	ng	100
41) Hexachlorocyclopentadiene	9.051	237	162314	40.622	ng	100
43) 2,4,6-Trichlorophenol	9.175	196	153308	38.383	ng	100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142471.D
Acq On : 20 May 2025 14:05
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: May 20 16:55:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	162880	38.667	ng	100
46) 1,1'-Biphenyl	9.363	154	610663	38.146	ng	100
47) 2-Chloronaphthalene	9.386	162	451638	38.185	ng	100
48) 2-Nitroaniline	9.480	65	133679	39.102	ng	100
49) Acenaphthylene	9.804	152	763730	38.240	ng	100
50) Dimethylphthalate	9.663	163	518078	38.051	ng	100
51) 2,6-Dinitrotoluene	9.722	165	115691	39.370	ng	100
52) Acenaphthene	9.974	154	462249	37.904	ng	100
53) 3-Nitroaniline	9.892	138	123293	38.413	ng	100
54) 2,4-Dinitrophenol	9.998	184	61452	40.477	ng	100
55) Dibenzofuran	10.145	168	662626	37.758	ng	100
56) 4-Nitrophenol	10.045	139	93606	39.526	ng	100
57) 2,4-Dinitrotoluene	10.127	165	150036	39.095	ng	100
58) Fluorene	10.492	166	507836	37.457	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.263	232	137225	39.022	ng	100
60) Diethylphthalate	10.363	149	508183	38.217	ng	100
61) 4-Chlorophenyl-phenyle...	10.480	204	251129	37.706	ng	100
62) 4-Nitroaniline	10.504	138	114265	39.253	ng	100
63) Azobenzene	10.645	77	456781	38.246	ng	100
65) 4,6-Dinitro-2-methylph...	10.533	198	79121	41.326	ng	100
66) n-Nitrosodiphenylamine	10.598	169	445033	37.917	ng	100
67) 4-Bromophenyl-phenylether	10.974	248	152348	37.556	ng	100
68) Hexachlorobenzene	11.039	284	171918	38.318	ng	100
69) Atrazine	11.127	200	121790	39.072	ng	100
70) Pentachlorophenol	11.233	266	100877	39.824	ng	100
71) Phenanthrene	11.457	178	694045	37.855	ng	100
72) Anthracene	11.504	178	711162	38.007	ng	100
73) Carbazole	11.657	167	610097	38.140	ng	100
74) Di-n-butylphthalate	11.986	149	669345	38.227	ng	100
75) Fluoranthene	12.645	202	643610	37.569	ng	100
77) Benzidine	12.763	184	269307	42.816	ng	100
78) Pyrene	12.874	202	628371	39.853	ng	100
80) Butylbenzylphthalate	13.486	149	177841	40.819	ng	100
81) Benzo(a)anthracene	14.062	228	431998	38.276	ng	100
82) 3,3'-Dichlorobenzidine	14.021	252	137438	40.148	ng	100
83) Chrysene	14.098	228	387081	38.168	ng	100
84) Bis(2-ethylhexyl)phtha...	14.045	149	227555	40.800	ng	100
85) Di-n-octyl phthalate	14.662	149	427995	39.246	ng	100
87) Indeno(1,2,3-cd)pyrene	17.080	276	548309	38.584	ng	100
88) Benzo(b)fluoranthene	15.127	252	426174	38.041	ng	100
89) Benzo(k)fluoranthene	15.156	252	394567	37.603	ng	100
90) Benzo(a)pyrene	15.504	252	409312	38.761	ng	100
91) Dibenzo(a,h)anthracene	17.098	278	448372	38.903	ng	100
92) Benzo(g,h,i)perylene	17.539	276	446674	38.747	ng	100

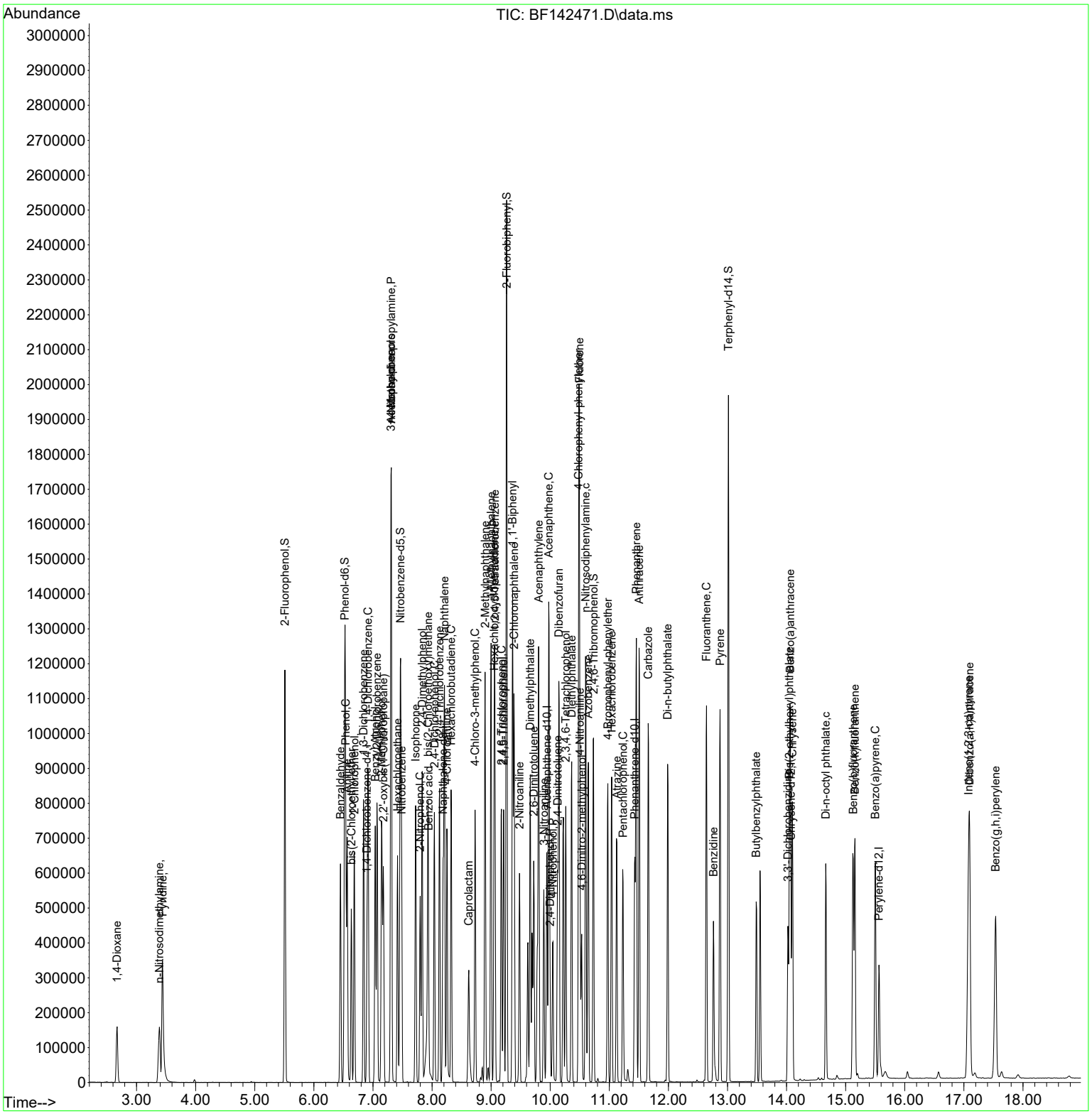
(#) = qualifier out of range (m) = manual integration (+) = signals summed

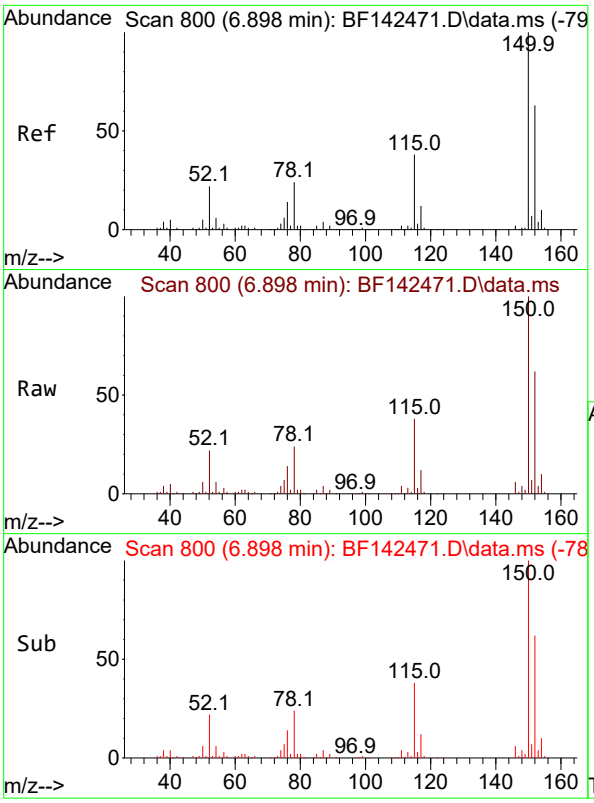
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142471.D
Acq On : 20 May 2025 14:05
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: May 20 16:55:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



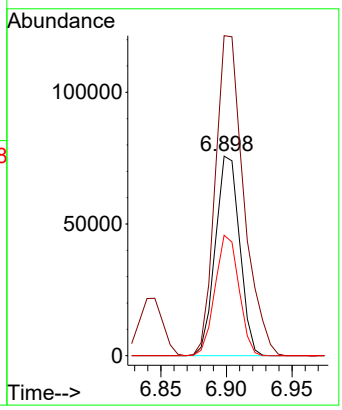


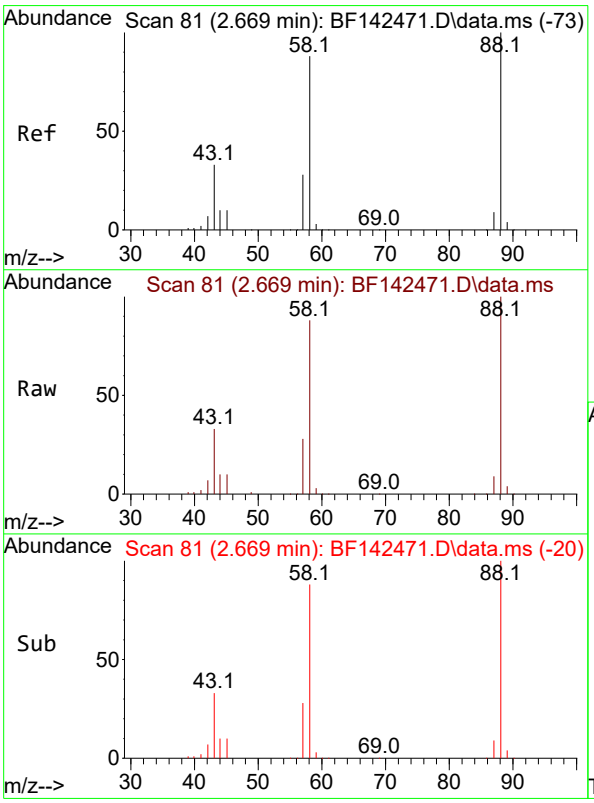
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 97580

Ion	Ratio	Lower	Upper
152	100		
150	160.3	128.2	192.4
115	60.4	48.3	72.5

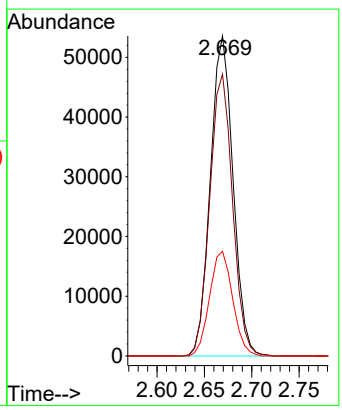


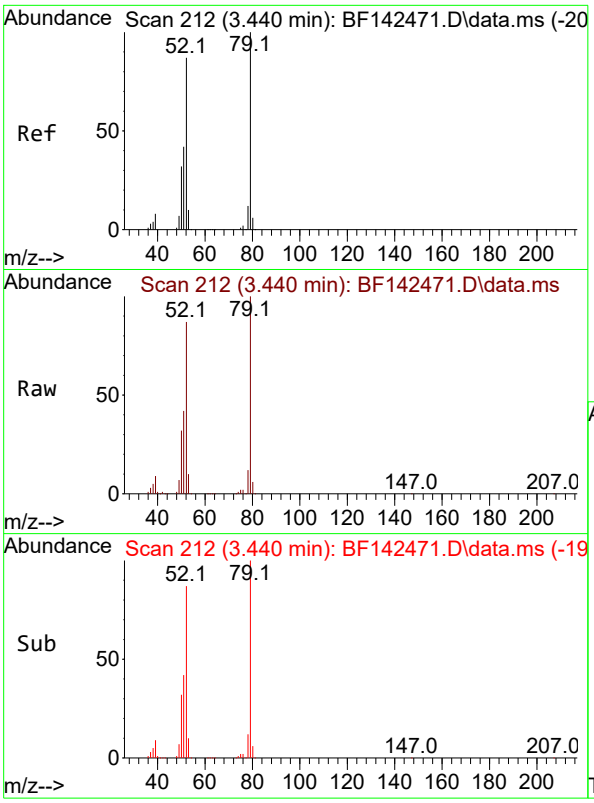


#2
1,4-Dioxane
Concen: 38.557 ng
RT: 2.669 min Scan# 81
Delta R.T. 0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion: 88 Resp: 89364

Ion	Ratio	Lower	Upper
88	100		
58	88.5	70.8	106.2
43	33.3	26.6	40.0



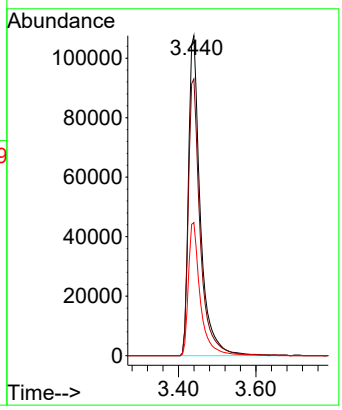


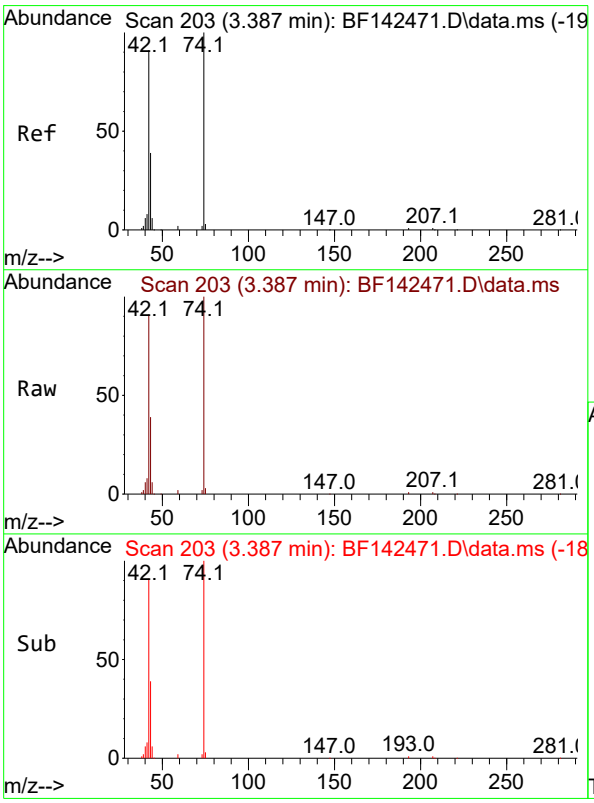
#3
Pyridine
Concen: 38.694 ng
RT: 3.440 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 228376

Ion	Ratio	Lower	Upper
79	100		
52	86.5	69.2	103.8
51	41.6	33.3	49.9

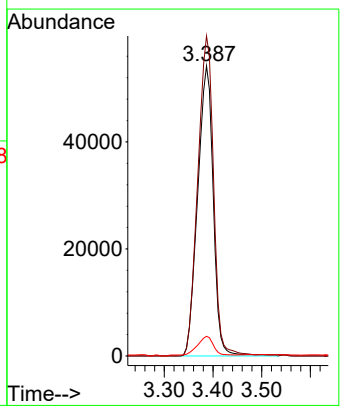


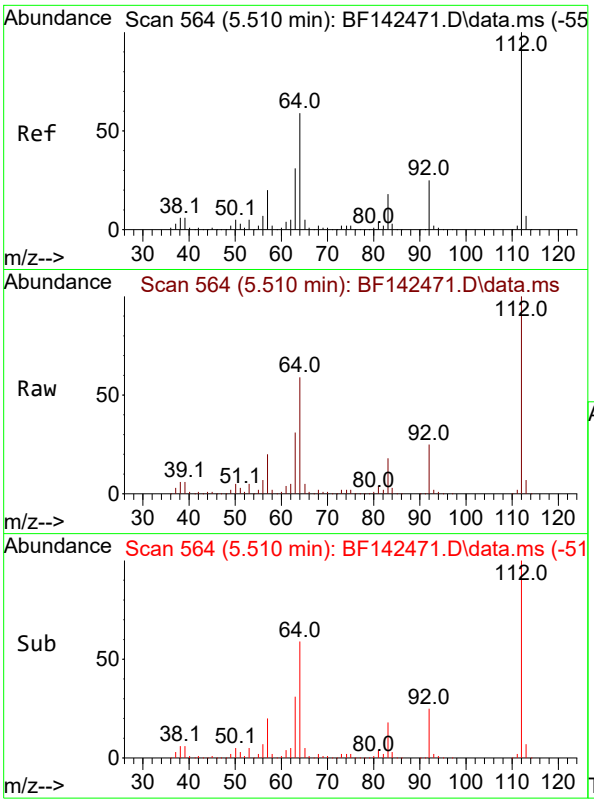


#4
n-Nitrosodimethylamine
Concen: 39.412 ng
RT: 3.387 min Scan# 203
Delta R.T. -0.018 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion: 42 Resp: 120777

Ion	Ratio	Lower	Upper
42	100		
74	110.3	88.2	132.4
44	6.8	5.4	8.2



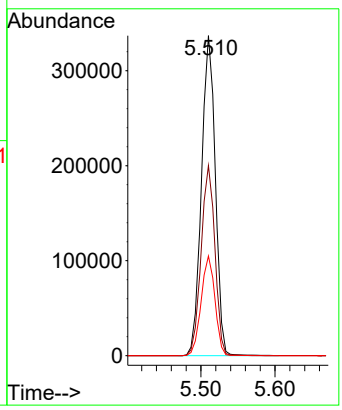


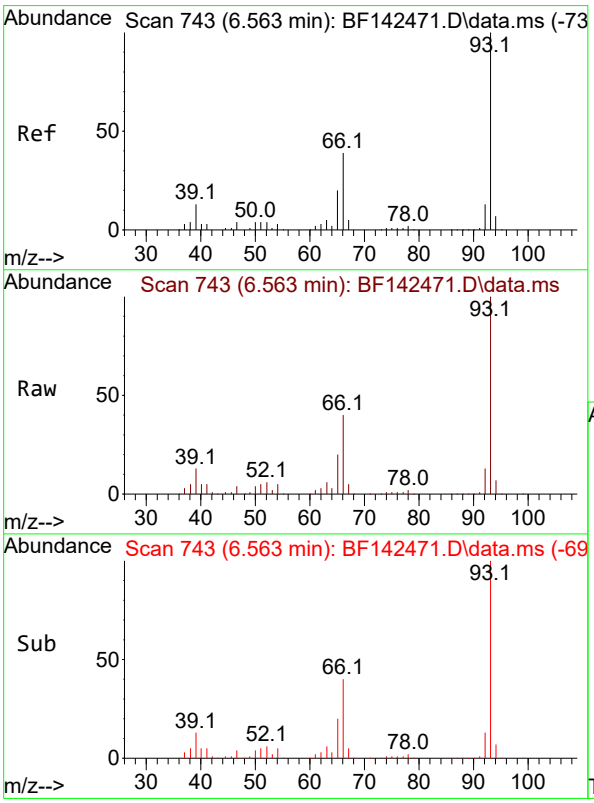
#5
2-Fluorophenol
Concen: 75.840 ng
RT: 5.510 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:112 Resp: 439258

Ion	Ratio	Lower	Upper
112	100		
64	59.4	47.5	71.3
63	31.1	24.9	37.3

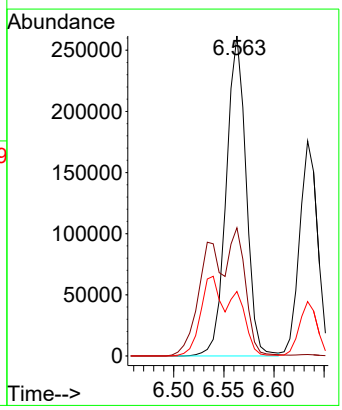


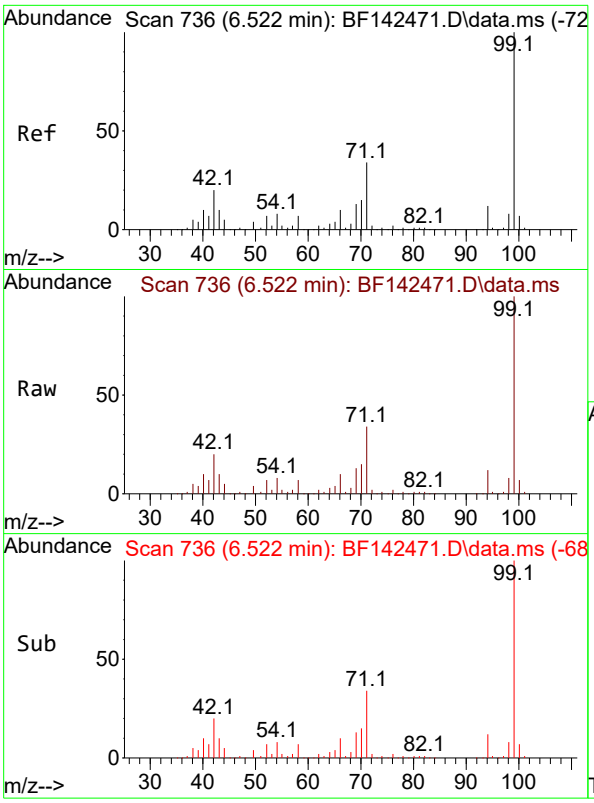


#6
Aniline
Concen: 38.378 ng
RT: 6.563 min Scan# 743
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion: 93 Resp: 359784

Ion	Ratio	Lower	Upper
93	100		
66	40.0	32.0	48.0
65	20.1	16.1	24.1



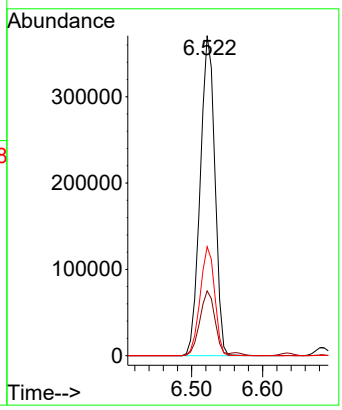


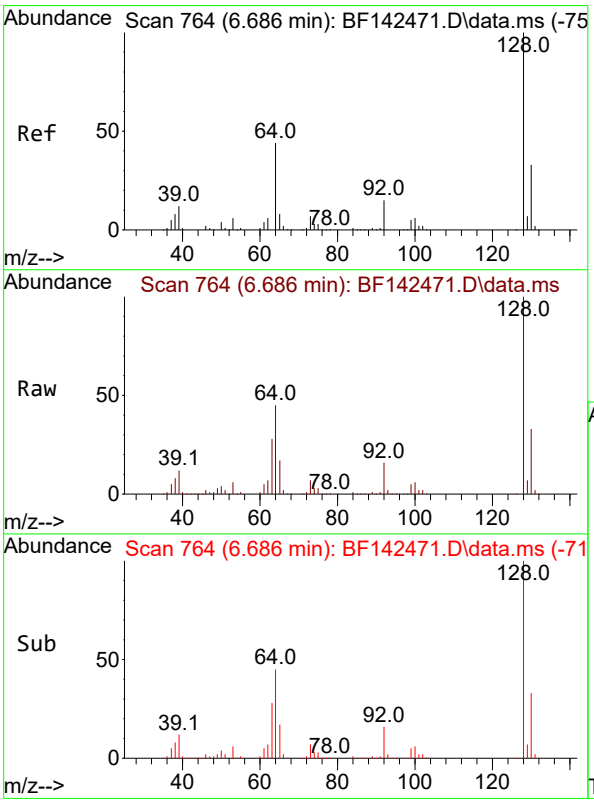
#7
Phenol-d6
Concen: 76.529 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 99 Resp: 533569

Ion	Ratio	Lower	Upper
99	100		
42	20.2	16.2	24.2
71	34.1	27.3	40.9

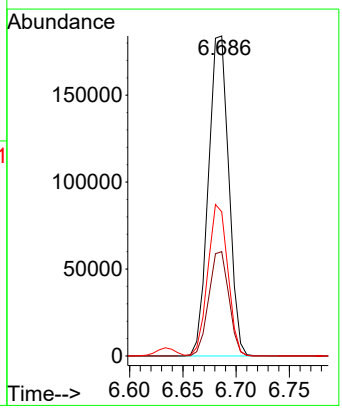


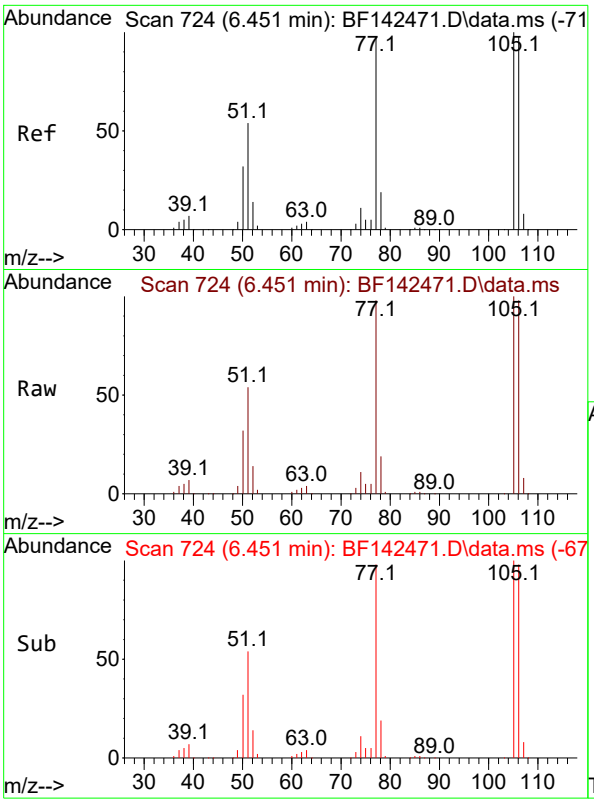


#8
2-Chlorophenol
Concen: 38.720 ng
RT: 6.686 min Scan# 764
Delta R.T. 0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:128 Resp: 244270

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.6	52.6
64	45.1	25.1	65.1



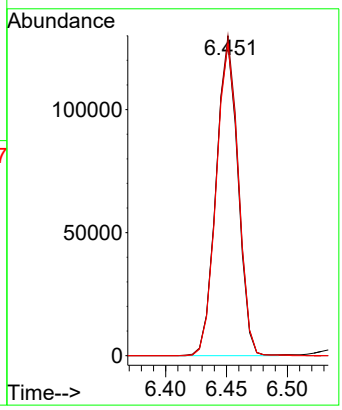


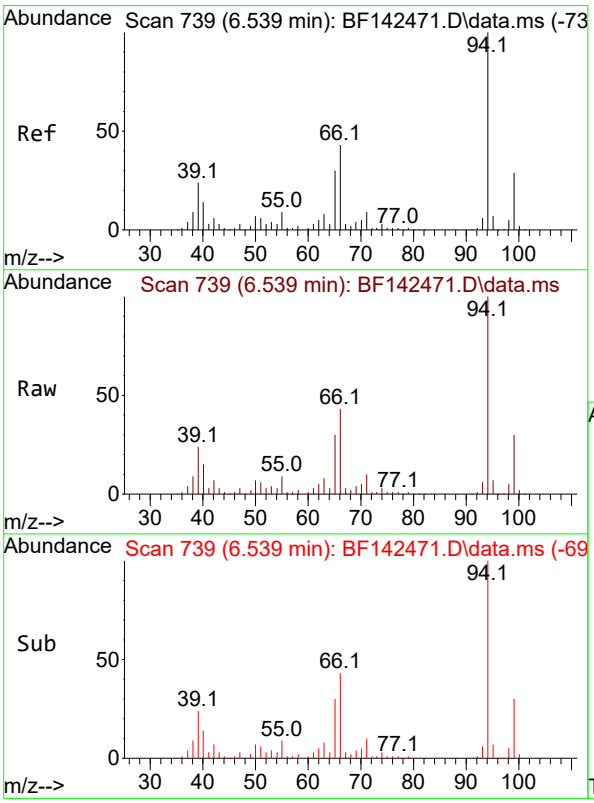
#9
Benzaldehyde
Concen: 38.033 ng
RT: 6.451 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 159492

Ion	Ratio	Lower	Upper
77	100		
105	102.5	82.5	122.5
106	100.0	80.0	120.0

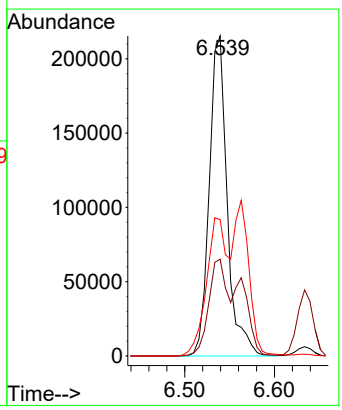


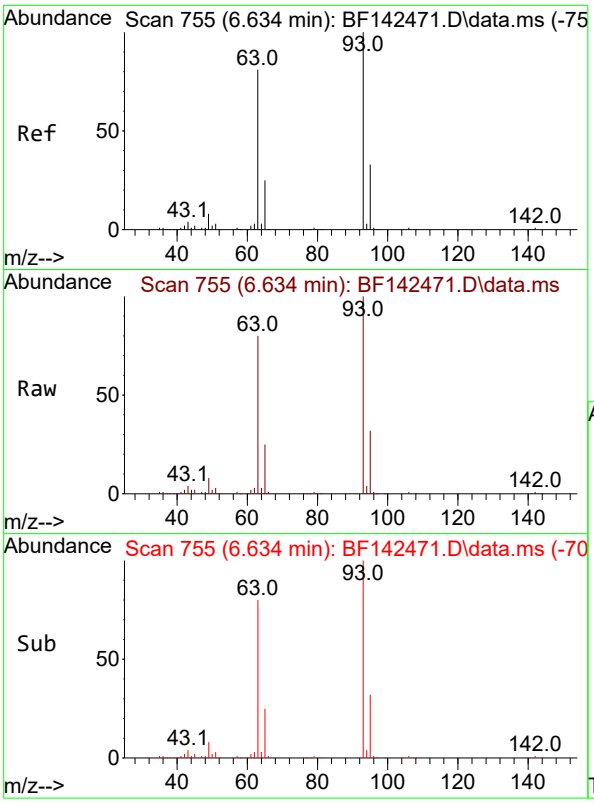


#10
Phenol
Concen: 38.073 ng
RT: 6.539 min Scan# 739
Delta R.T. -0.012 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion: 94 Resp: 298690

Ion	Ratio	Lower	Upper
94	100		
65	30.3	10.3	50.3
66	42.6	22.6	62.6



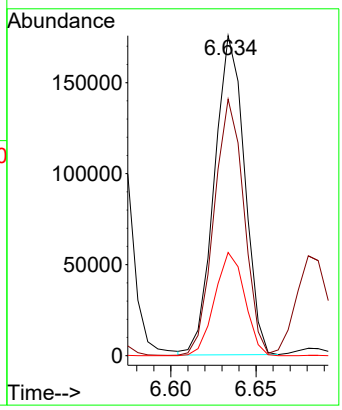


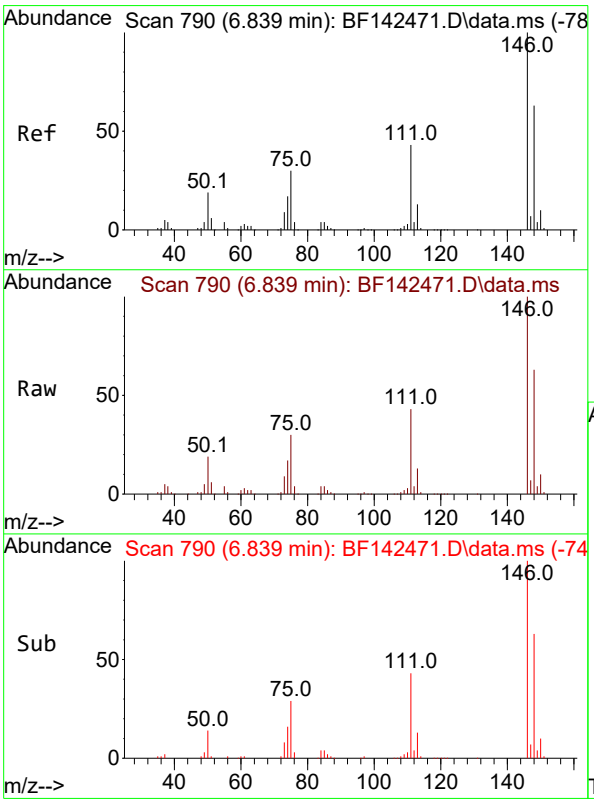
#11
bis(2-Chloroethyl)ether
Concen: 38.275 ng
RT: 6.634 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 93 Resp: 216144

Ion	Ratio	Lower	Upper
93	100		
63	80.2	60.2	100.2
95	32.3	12.3	52.3

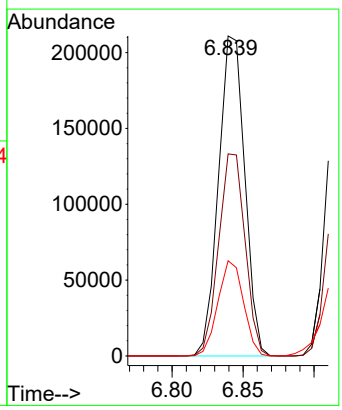


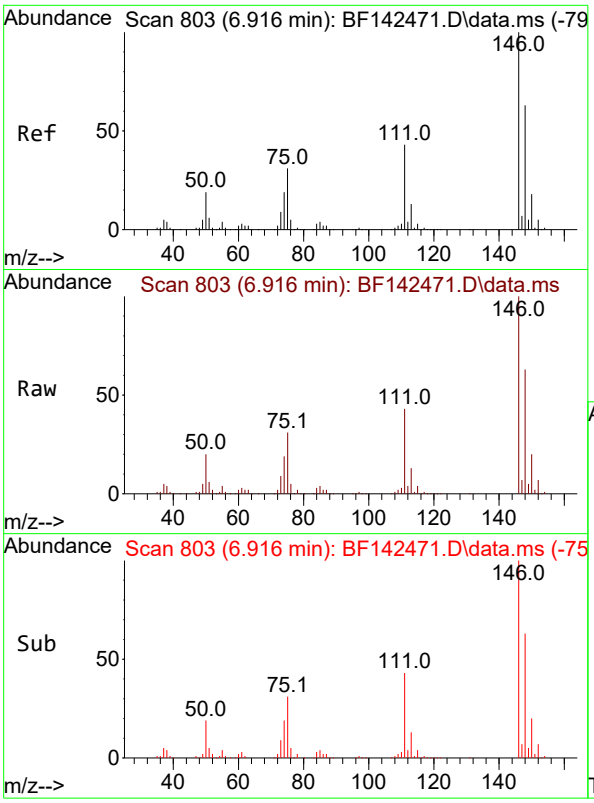


#12
1,3-Dichlorobenzene
Concen: 38.514 ng
RT: 6.839 min Scan# 790
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:146 Resp: 271118

Ion	Ratio	Lower	Upper
146	100		
148	63.2	50.6	75.8
75	29.7	23.8	35.6



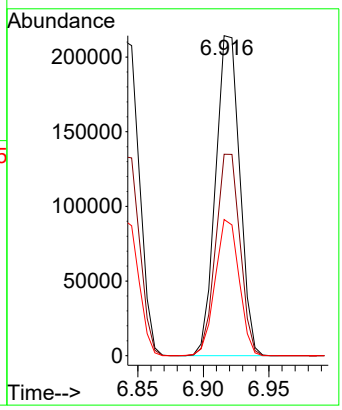


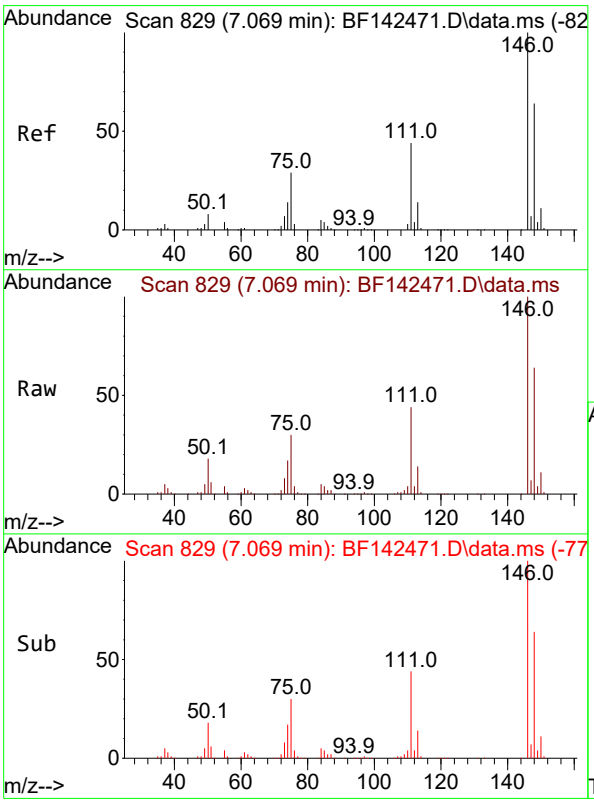
#13
1,4-Dichlorobenzene
Concen: 38.727 ng
RT: 6.916 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:146 Resp: 274616

Ion	Ratio	Lower	Upper
146	100		
148	63.0	50.4	75.6
111	42.6	34.1	51.1

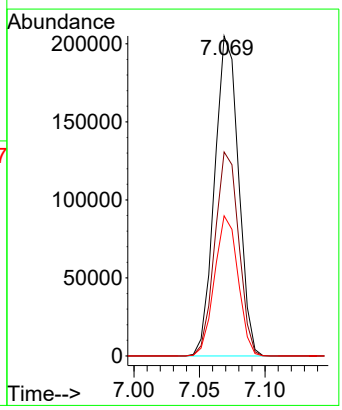


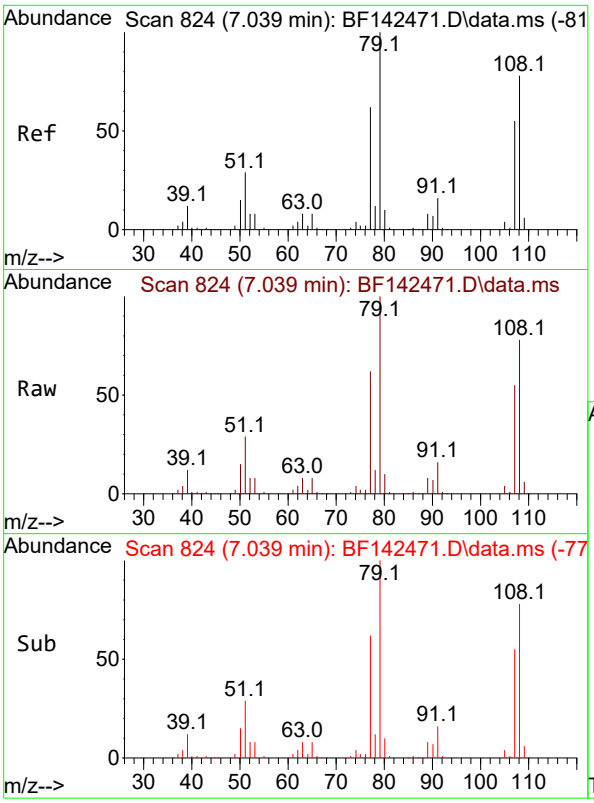


#14
1,2-Dichlorobenzene
Concen: 38.156 ng
RT: 7.069 min Scan# 829
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:146 Resp: 258896

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.0	76.4
111	43.8	35.0	52.6



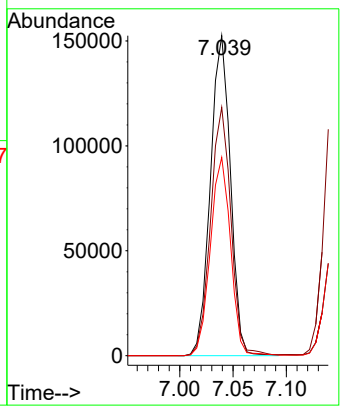


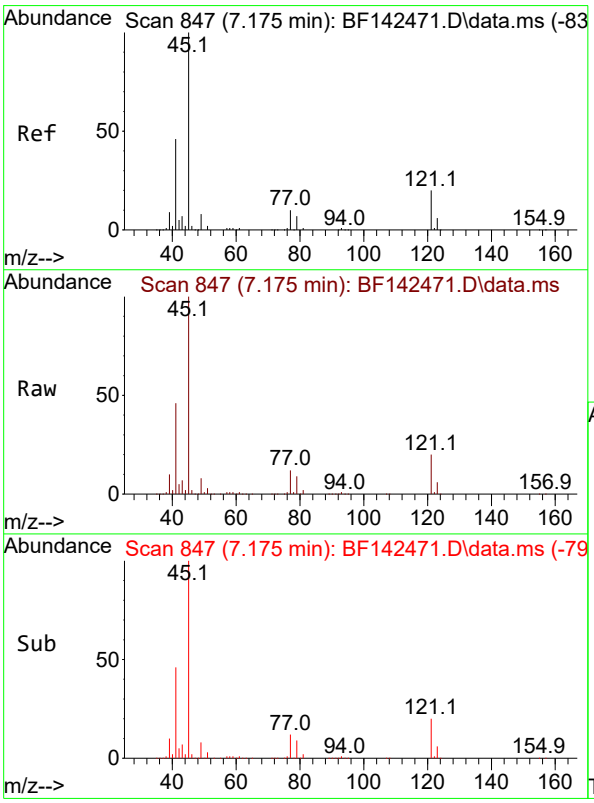
#15
Benzyl Alcohol
Concen: 38.657 ng
RT: 7.039 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 199176

Ion	Ratio	Lower	Upper
79	100		
108	77.6	62.1	93.1
77	61.9	49.5	74.3

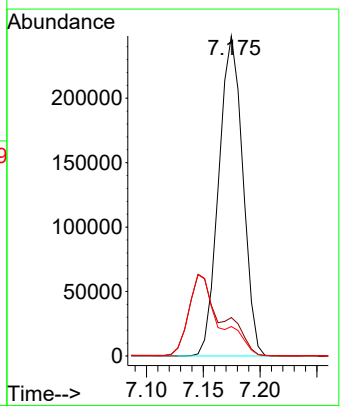


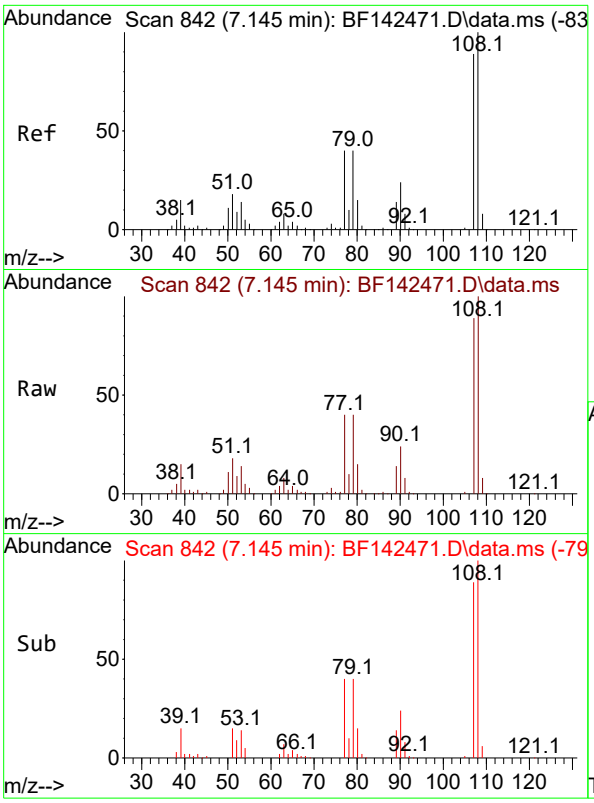


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.439 ng
RT: 7.175 min Scan# 847
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion: 45 Resp: 364537

Ion	Ratio	Lower	Upper
45	100		
77	12.0	0.0	32.0
79	9.2	0.0	29.2



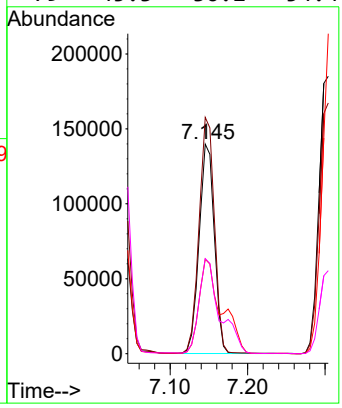


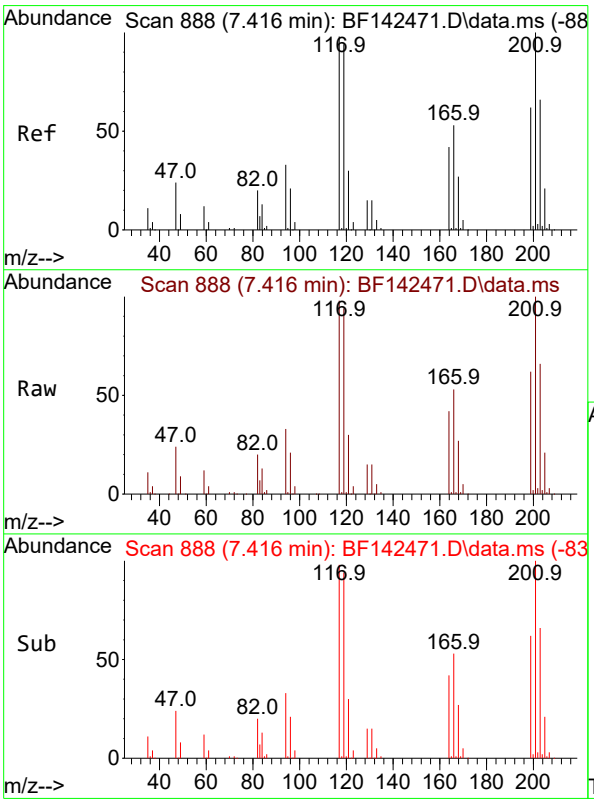
#17
2-Methylphenol
Concen: 38.677 ng
RT: 7.145 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:107 Resp: 190501

Ion	Ratio	Lower	Upper
107	100		
108	112.7	90.2	135.2
77	45.1	36.1	54.1
79	45.3	36.2	54.4

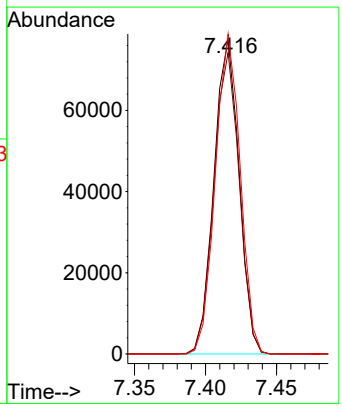


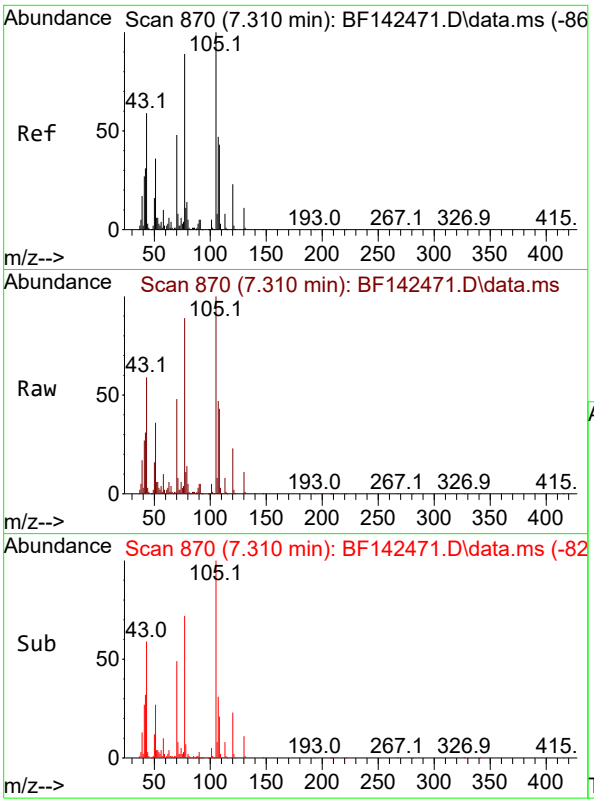


#18
Hexachloroethane
Concen: 38.543 ng
RT: 7.416 min Scan# 888
Delta R.T. 0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:117 Resp: 95436

Ion	Ratio	Lower	Upper
117	100		
119	95.7	76.6	114.8
201	101.6	81.3	121.9



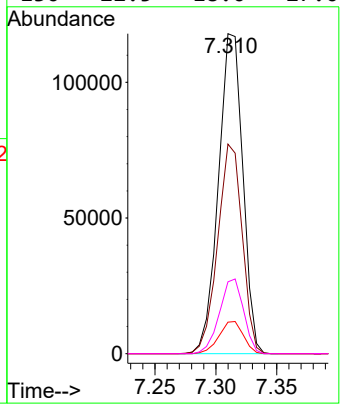


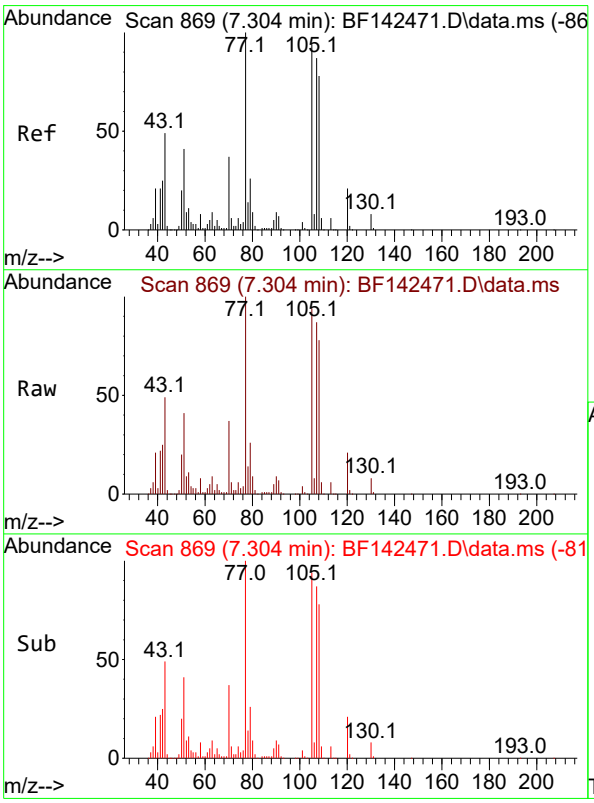
#19
n-Nitroso-di-n-propylamine
Concen: 38.083 ng
RT: 7.310 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 70 Resp: 164556

Ion	Ratio	Lower	Upper
70	100		
42	65.5	52.4	78.6
101	9.8	7.8	11.8
130	22.5	18.0	27.0

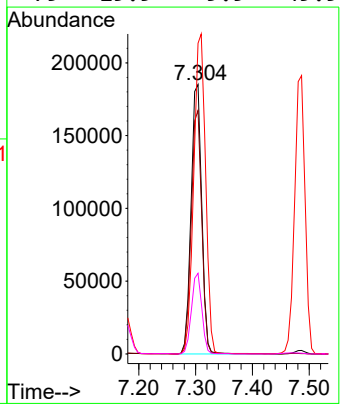


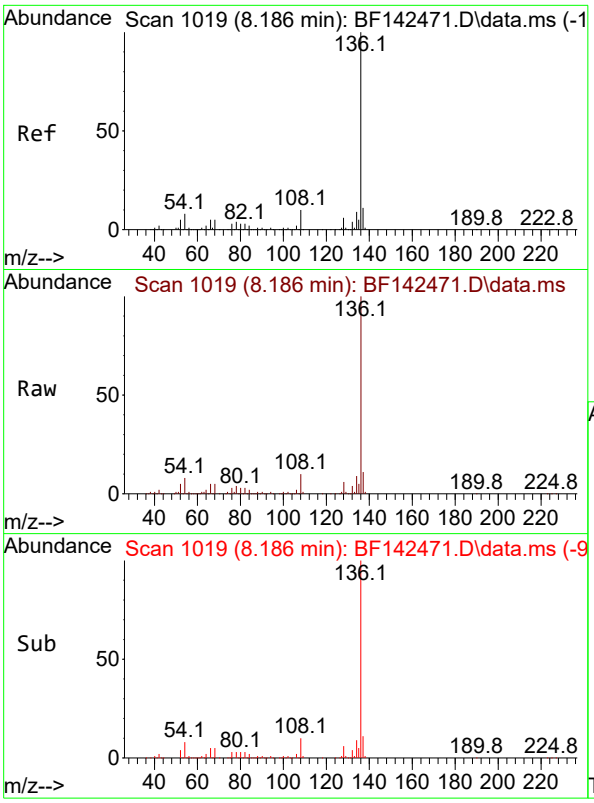


#20
3+4-Methylphenols
Concen: 38.538 ng
RT: 7.304 min Scan# 869
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:107 Resp: 243075

Ion	Ratio	Lower	Upper
107	100		
108	90.4	70.4	110.4
77	115.4	95.4	135.4
79	29.9	9.9	49.9



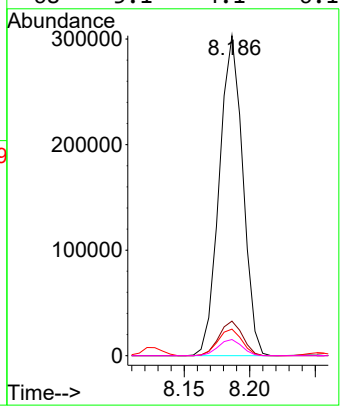


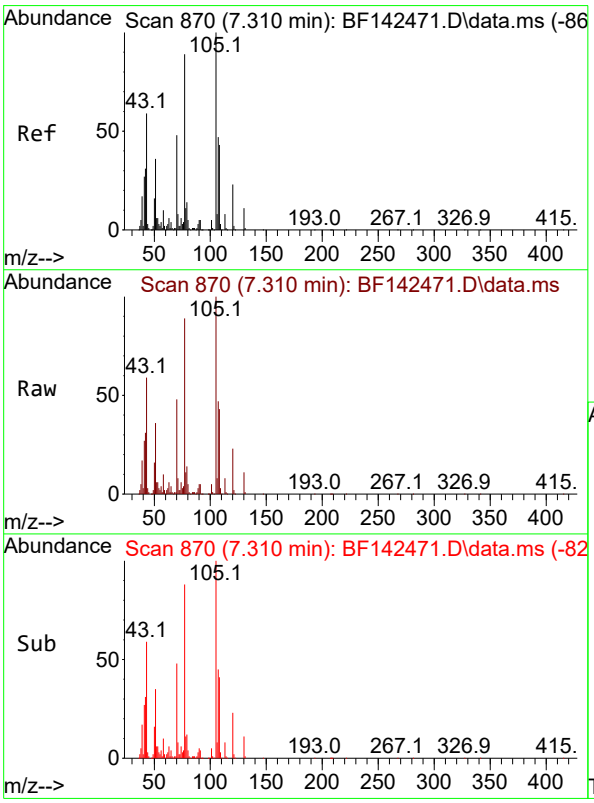
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:136 Resp: 377433

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.3	6.6	10.0
68	5.1	4.1	6.1

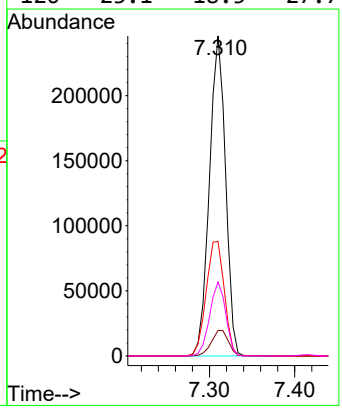


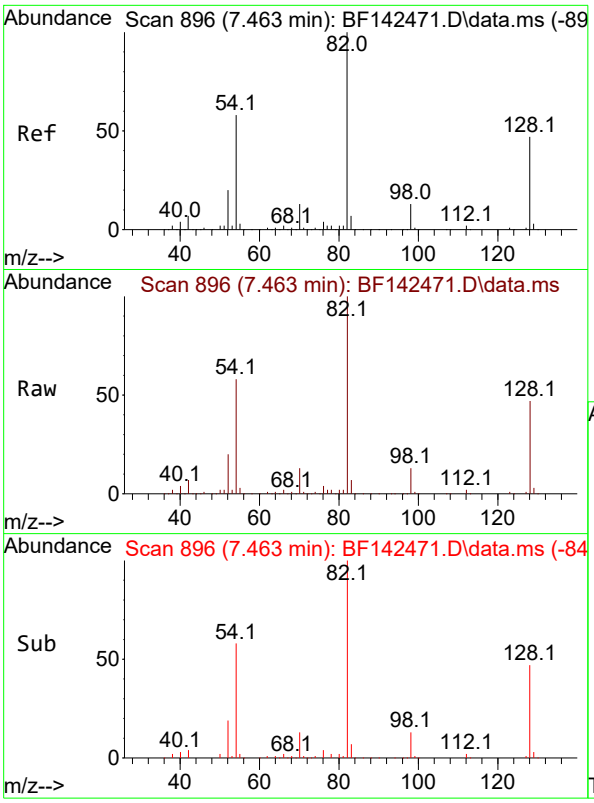


#22
Acetophenone
Concen: 38.740 ng
RT: 7.310 min Scan# 870
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:105 Resp: 323676

Ion	Ratio	Lower	Upper
105	100		
71	8.0	6.4	9.6
51	35.7	28.6	42.8
120	23.1	18.5	27.7



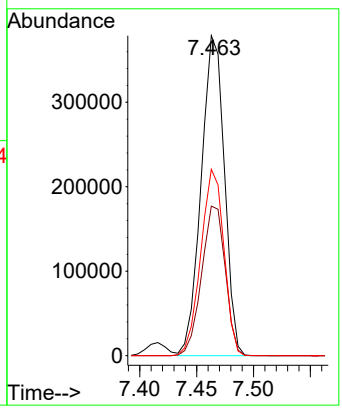


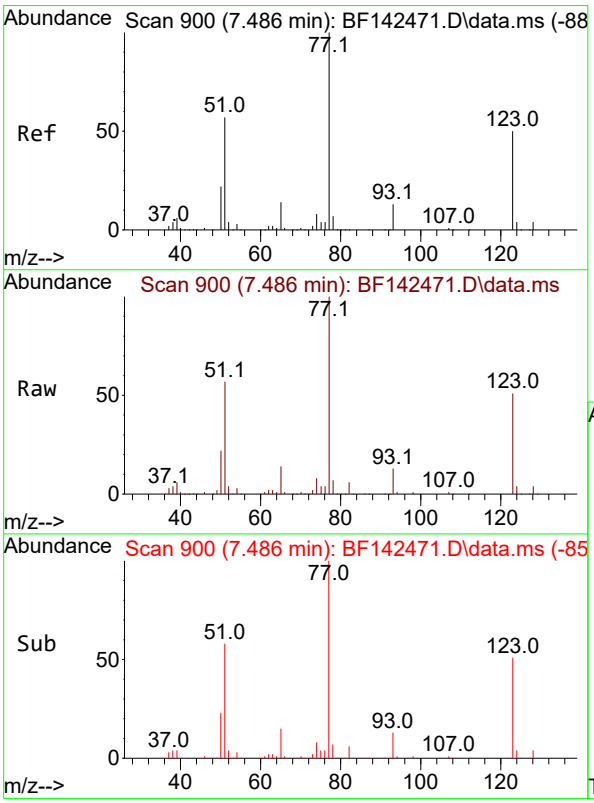
#23
Nitrobenzene-d5
Concen: 77.702 ng
RT: 7.463 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 537832

Ion	Ratio	Lower	Upper
82	100		
128	46.8	37.4	56.2
54	58.3	46.6	70.0

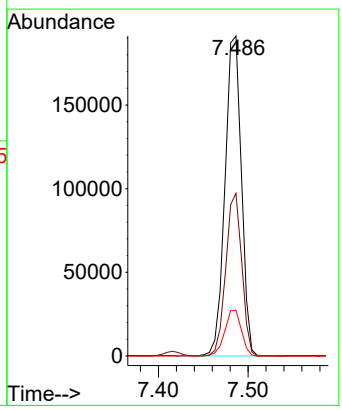


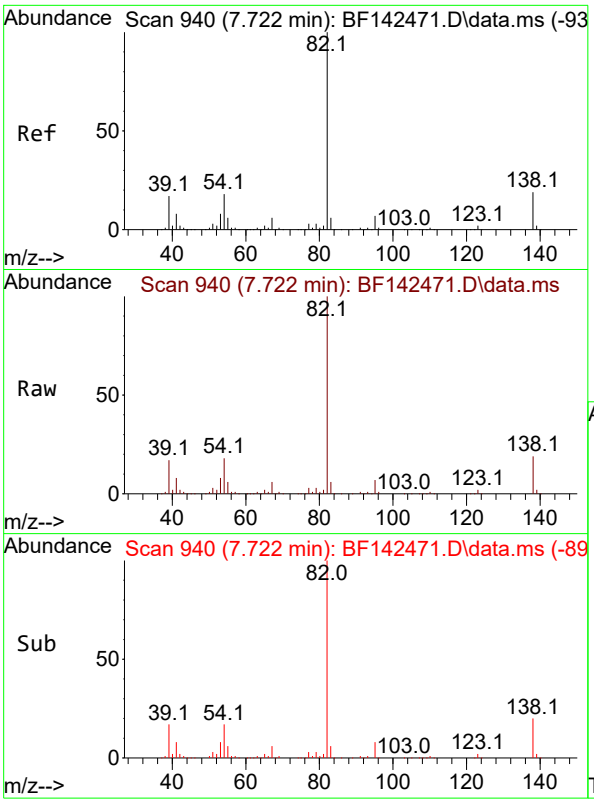


#24
Nitrobenzene
Concen: 38.996 ng
RT: 7.486 min Scan# 900
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion: 77 Resp: 243446

Ion	Ratio	Lower	Upper
77	100		
123	50.8	40.6	61.0
65	14.3	11.4	17.2



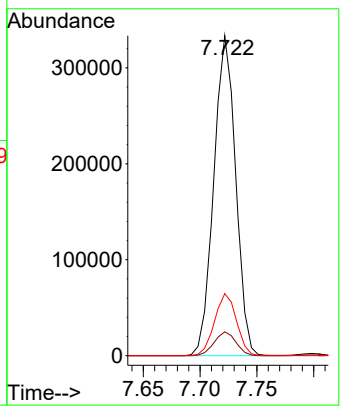


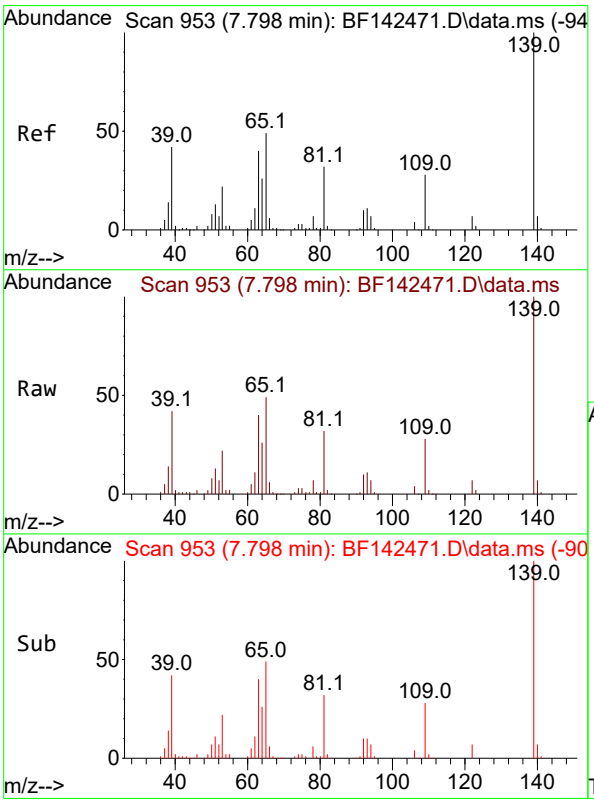
#25
Isophorone
Concen: 38.653 ng
RT: 7.722 min Scan# 94
Delta R.T. -0.012 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 447323

Ion	Ratio	Lower	Upper
82	100		
95	7.5	6.0	9.0
138	19.4	15.5	23.3

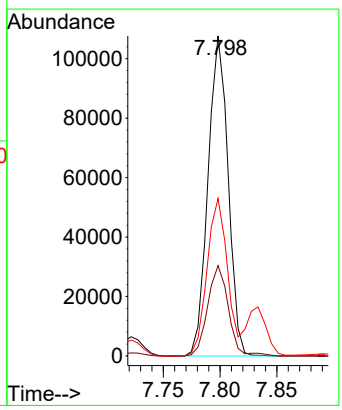


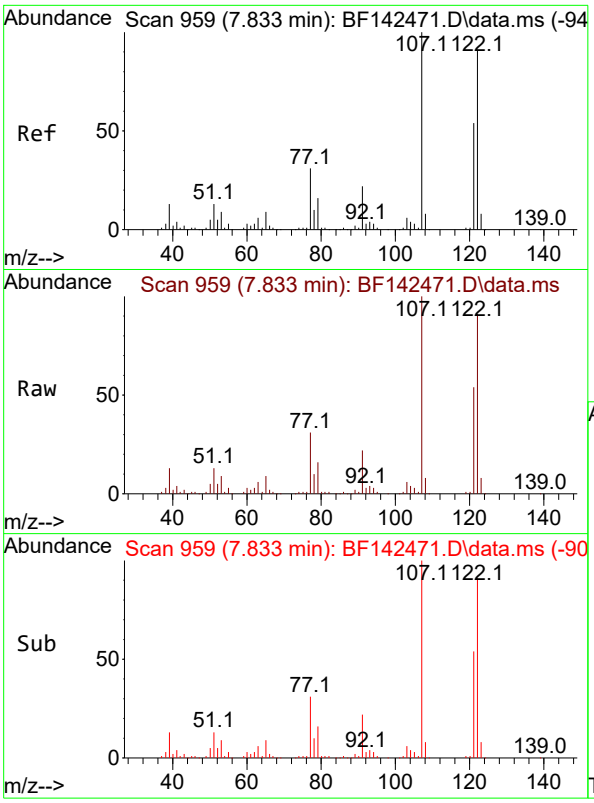


#26
2-Nitrophenol
Concen: 39.646 ng
RT: 7.798 min Scan# 953
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:139 Resp: 132248

Ion	Ratio	Lower	Upper
139	100		
109	28.2	22.6	33.8
65	49.2	39.4	59.0



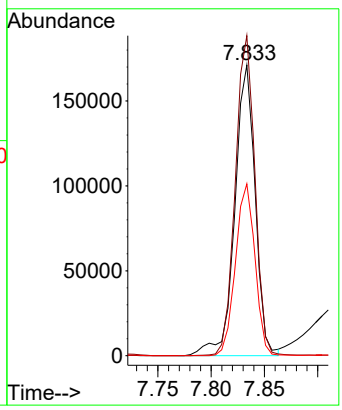


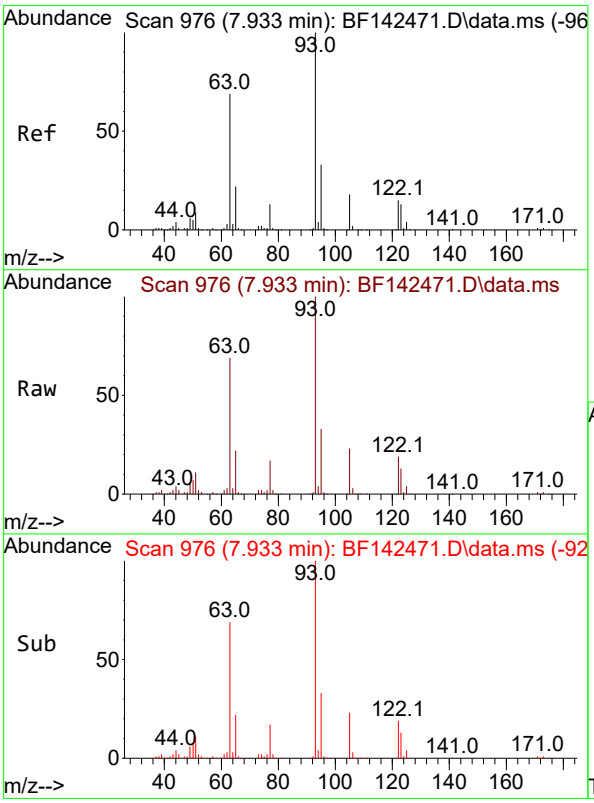
#27
2,4-Dimethylphenol
Concen: 38.858 ng
RT: 7.833 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:122 Resp: 228588

Ion	Ratio	Lower	Upper
122	100		
107	110.1	88.1	132.1
121	59.1	47.3	70.9

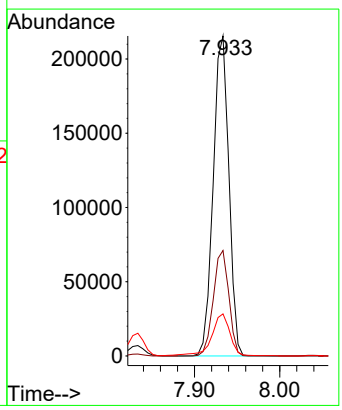


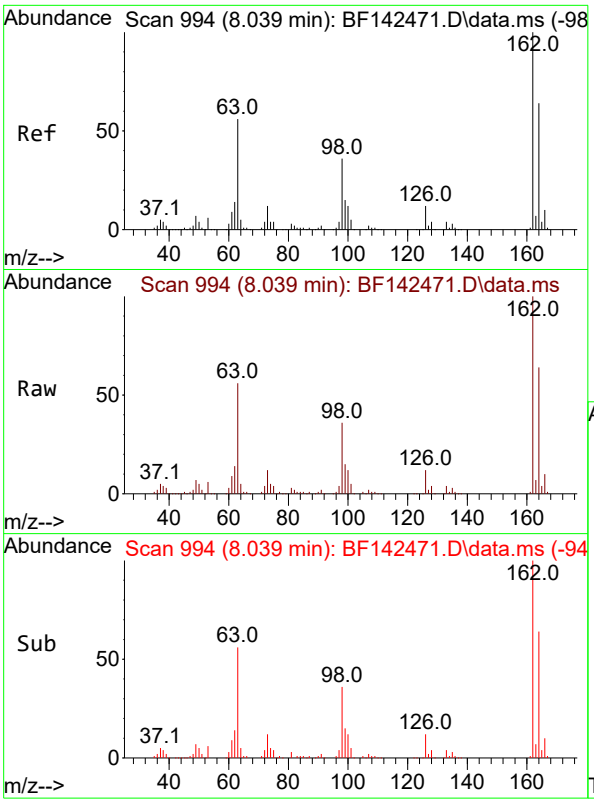


#28
bis(2-Chloroethoxy)methane
Concen: 38.002 ng
RT: 7.933 min Scan# 976
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion: 93 Resp: 274724

Ion	Ratio	Lower	Upper
93	100		
95	33.0	26.4	39.6
123	13.2	10.6	15.8



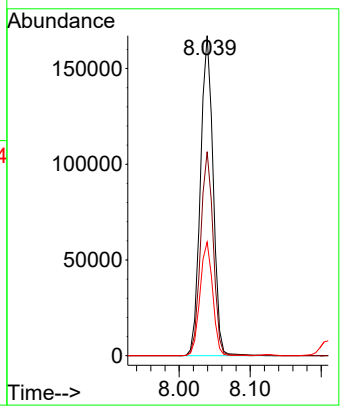


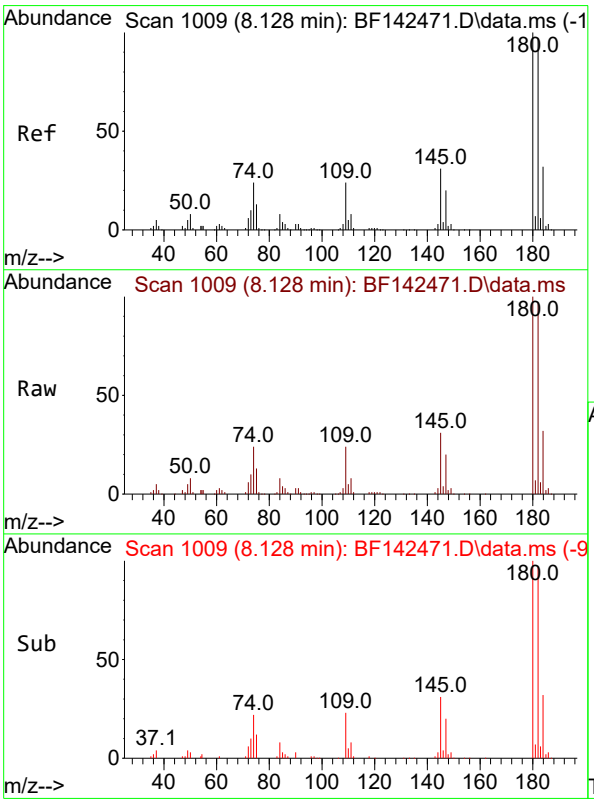
#29
2,4-Dichlorophenol
Concen: 38.963 ng
RT: 8.039 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 208444

Ion	Ratio	Lower	Upper
162	100		
164	63.7	43.7	83.7
98	35.5	15.5	55.5

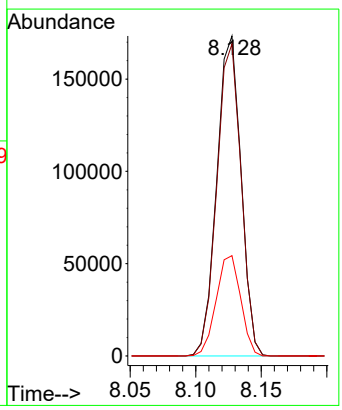


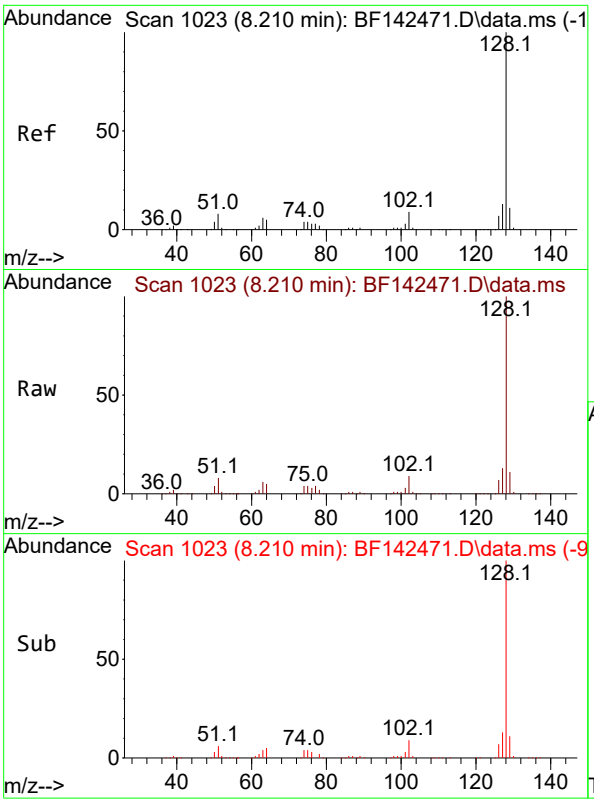


#30
1,2,4-Trichlorobenzene
Concen: 38.342 ng
RT: 8.128 min Scan# 1009
Delta R.T. 0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:180 Resp: 222613

Ion	Ratio	Lower	Upper
180	100		
182	97.5	78.0	117.0
145	31.3	25.0	37.6



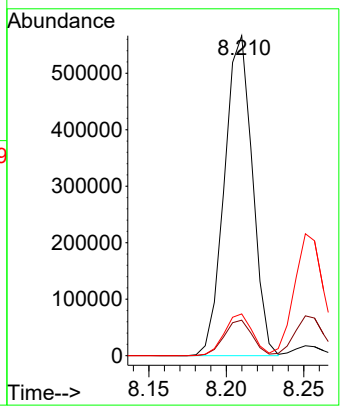


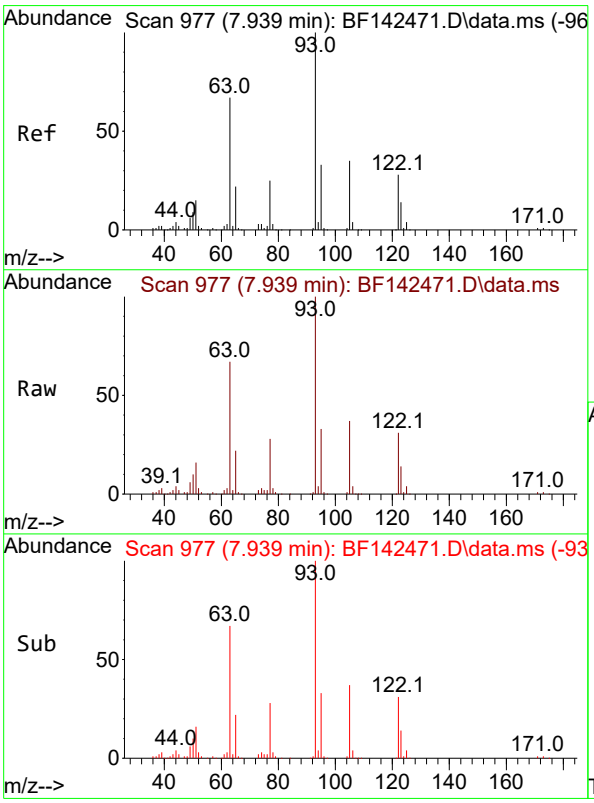
#31
Naphthalene
Concen: 38.223 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:128 Resp: 710368

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.1	10.5	15.7

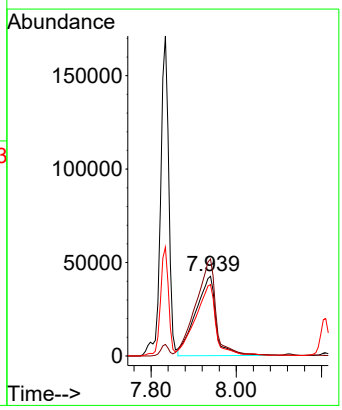


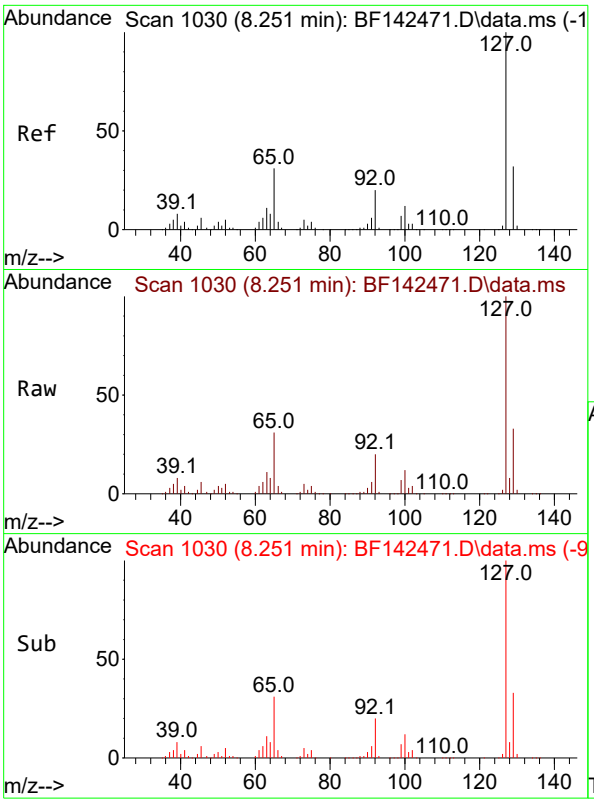


#32
Benzoic acid
Concen: 39.672 ng
RT: 7.939 min Scan# 977
Delta R.T. -0.036 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:122 Resp: 142061

Ion	Ratio	Lower	Upper
122	100		
105	121.7	101.7	141.7
77	89.5	69.5	109.5



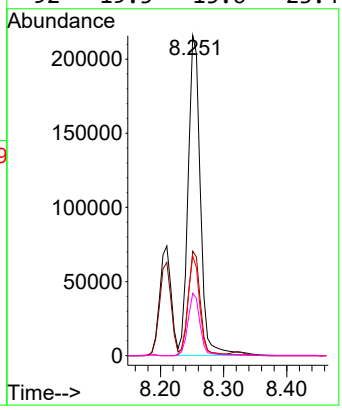


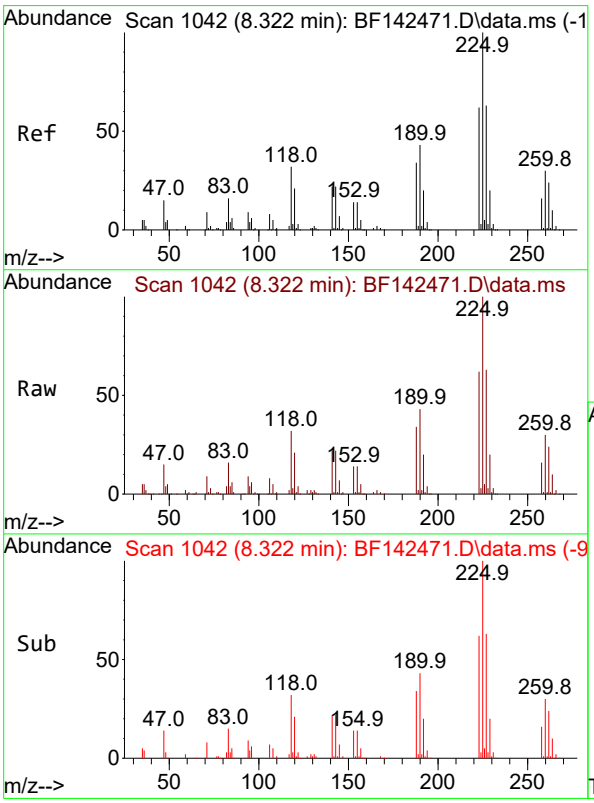
#33
4-Chloroaniline
Concen: 38.957 ng
RT: 8.251 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:127 Resp: 293373

Ion	Ratio	Lower	Upper
127	100		
129	32.6	26.1	39.1
65	31.1	24.9	37.3
92	19.5	15.6	23.4

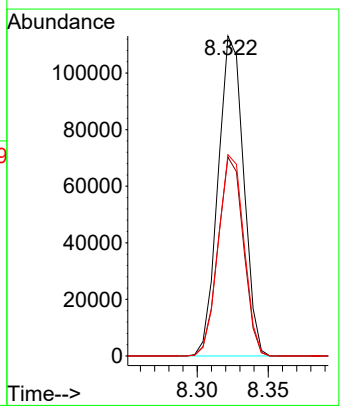


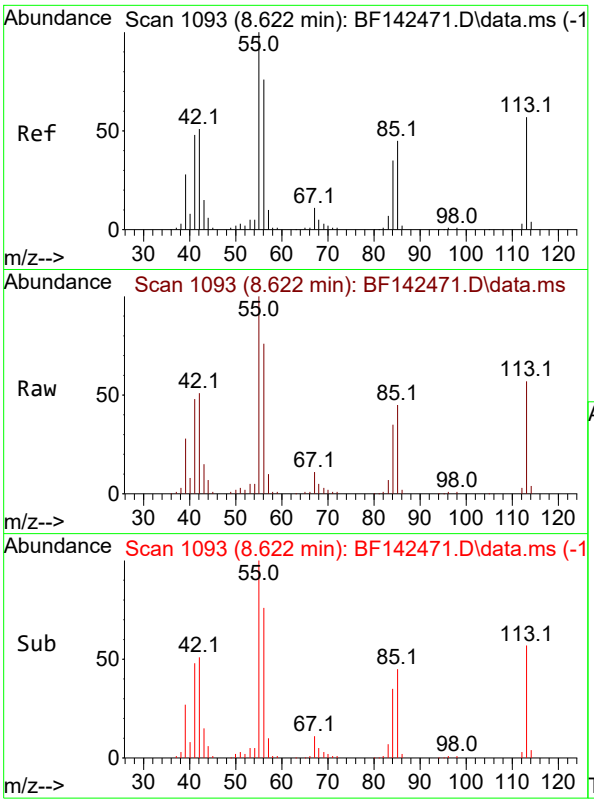


#34
Hexachlorobutadiene
Concen: 38.949 ng
RT: 8.322 min Scan# 1042
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:225 Resp: 141200

Ion	Ratio	Lower	Upper
225	100		
223	62.1	49.7	74.5
227	62.9	50.3	75.5



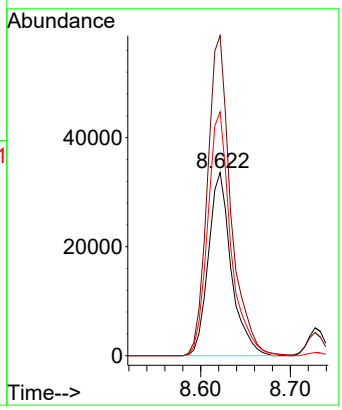


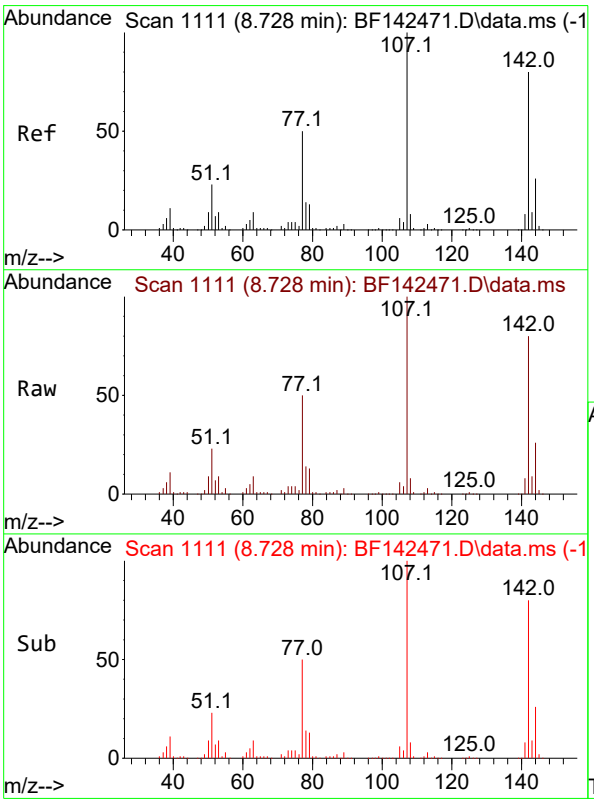
#35
Caprolactam
Concen: 39.473 ng
RT: 8.622 min Scan# 1
Delta R.T. -0.024 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:113 Resp: 59309

Ion	Ratio	Lower	Upper
113	100		
55	174.7	154.7	194.7
56	133.2	113.2	153.2

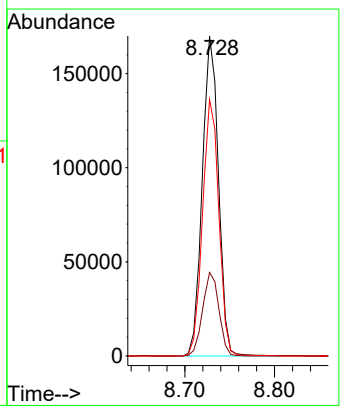


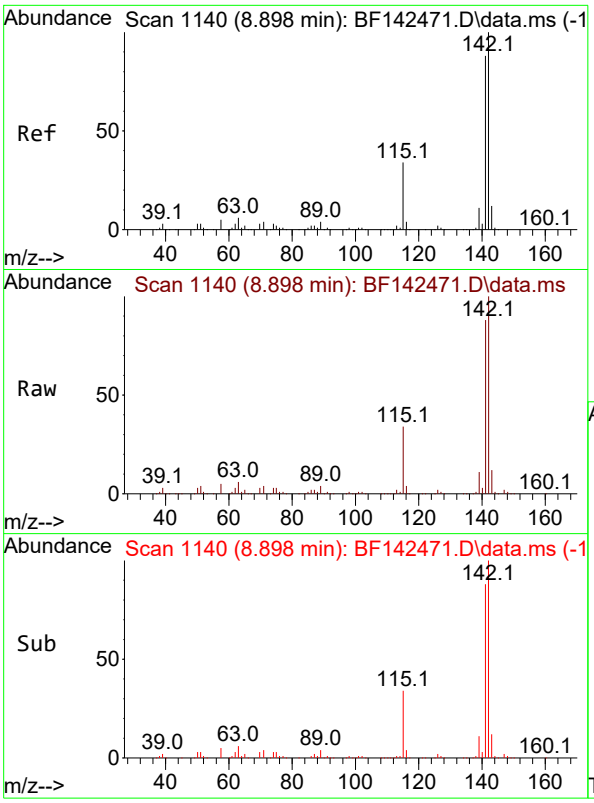


#36
4-Chloro-3-methylphenol
Concen: 38.800 ng
RT: 8.728 min Scan# 1111
Delta R.T. -0.012 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:107 Resp: 212728

Ion	Ratio	Lower	Upper
107	100		
144	26.1	20.9	31.3
142	80.2	64.2	96.2



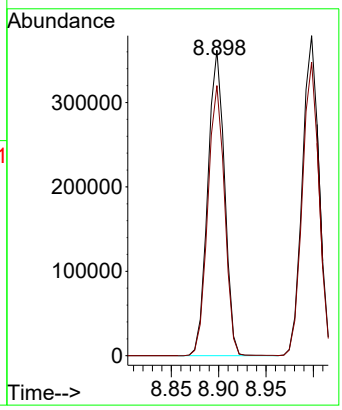


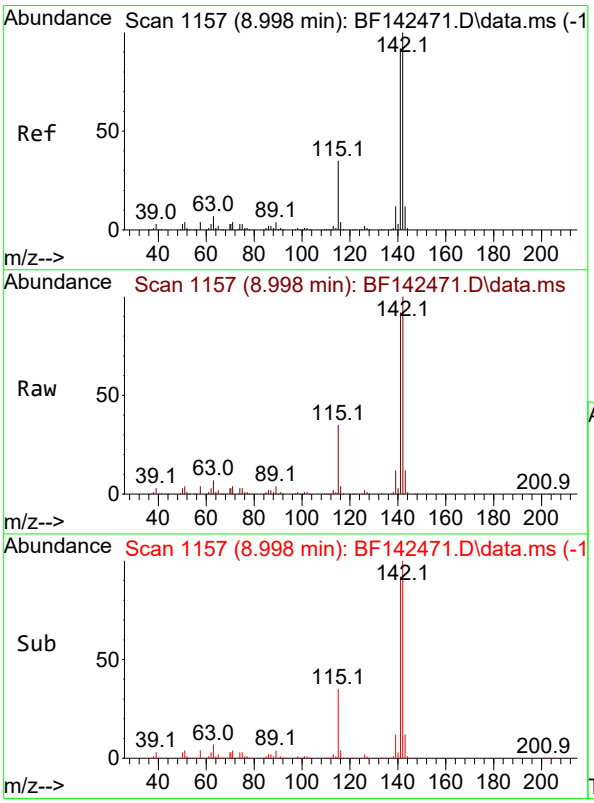
#37
2-Methylnaphthalene
Concen: 38.092 ng
RT: 8.898 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:142 Resp: 445368

Ion	Ratio	Lower	Upper
142	100		
141	88.4	70.7	106.1

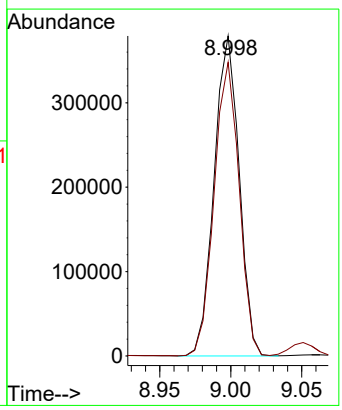


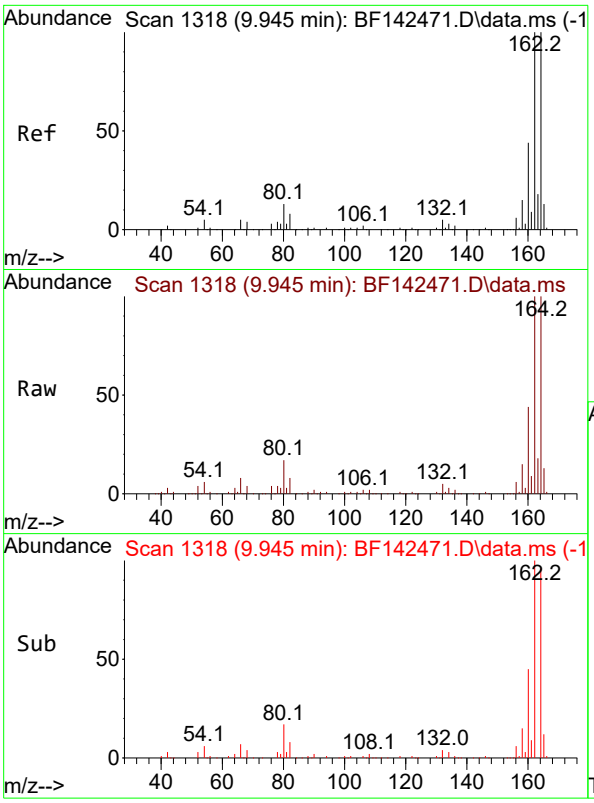


#38
1-Methylnaphthalene
Concen: 38.397 ng
RT: 8.998 min Scan# 1157
Delta R.T. 0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:142 Resp: 464365

Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.4	110.2



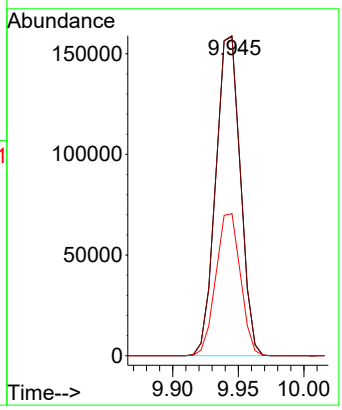


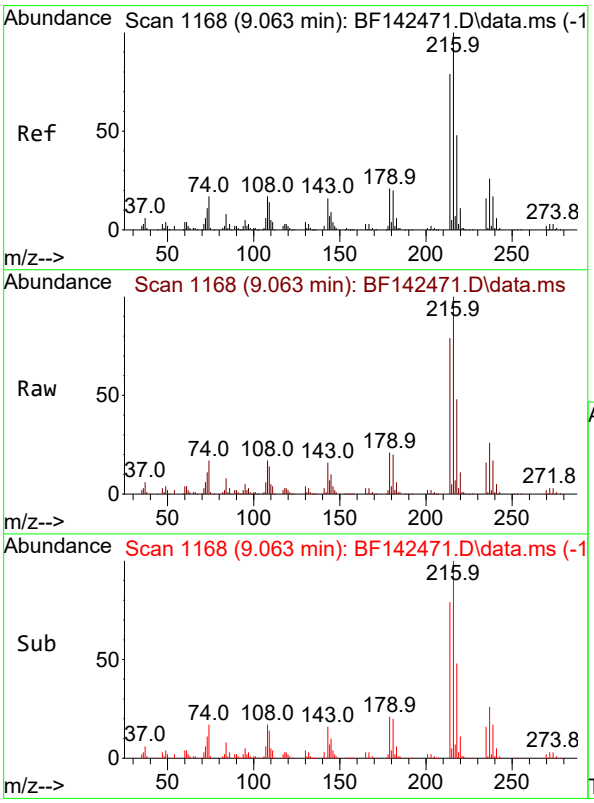
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:164 Resp: 206343

Ion	Ratio	Lower	Upper
164	100		
162	100.3	80.2	120.4
160	44.5	35.6	53.4

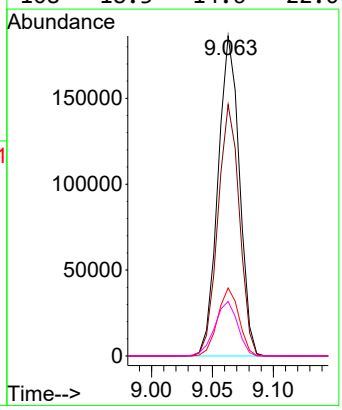


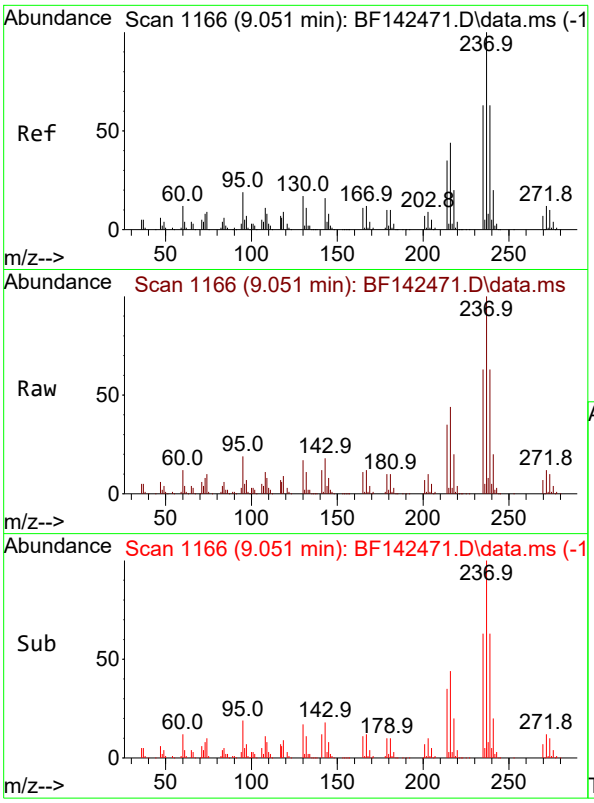


#40
1,2,4,5-Tetrachlorobenzene
Concen: 38.439 ng
RT: 9.063 min Scan# 1168
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:216 Resp: 227685

Ion	Ratio	Lower	Upper
216	100		
214	78.6	62.9	94.3
179	21.1	16.9	25.3
108	18.3	14.6	22.0



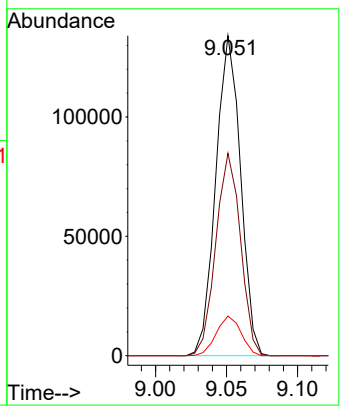


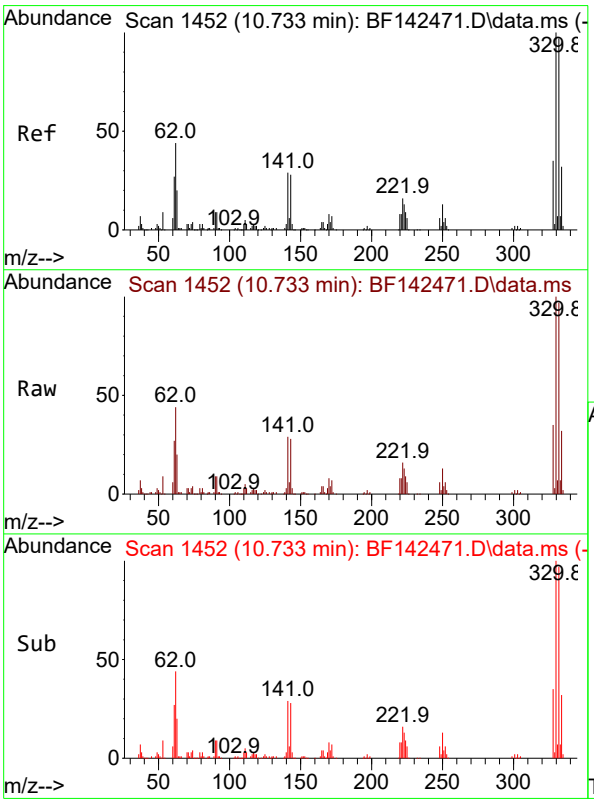
#41
Hexachlorocyclopentadiene
Concen: 40.622 ng
RT: 9.051 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:237 Resp: 162314

Ion	Ratio	Lower	Upper
237	100		
235	63.3	43.3	83.3
272	12.4	0.0	32.4

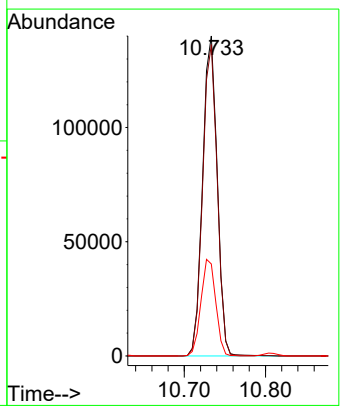


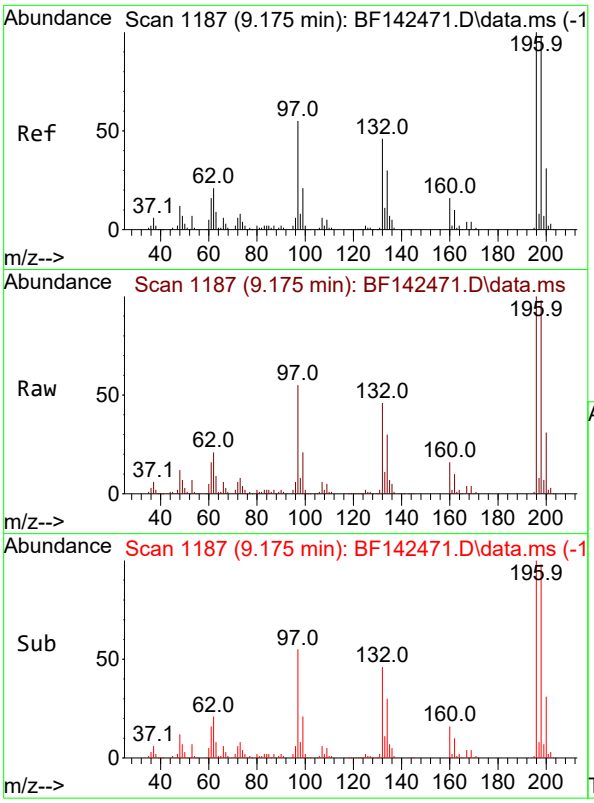


#42
2,4,6-Tribromophenol
Concen: 76.189 ng
RT: 10.733 min Scan# 1452
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:330 Resp: 174483

Ion	Ratio	Lower	Upper
330	100		
332	97.0	77.6	116.4
141	30.7	24.6	36.8



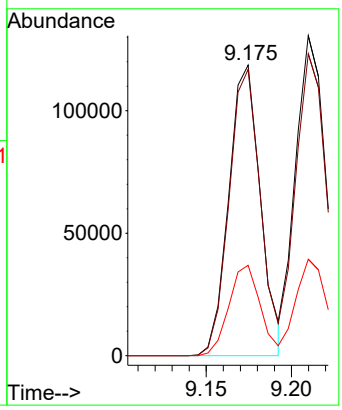


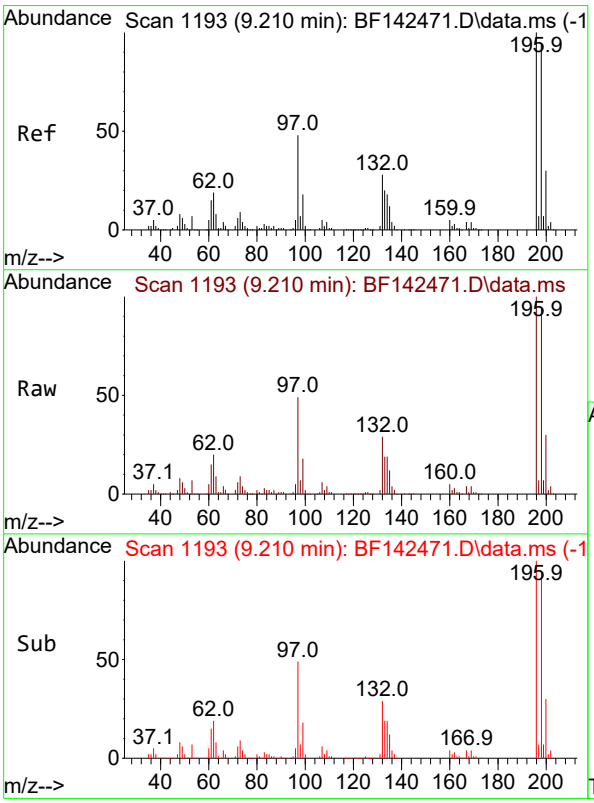
#43
2,4,6-Trichlorophenol
Concen: 38.383 ng
RT: 9.175 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:196 Resp: 153308

Ion	Ratio	Lower	Upper
196	100		
198	98.5	78.8	118.2
200	31.1	24.9	37.3

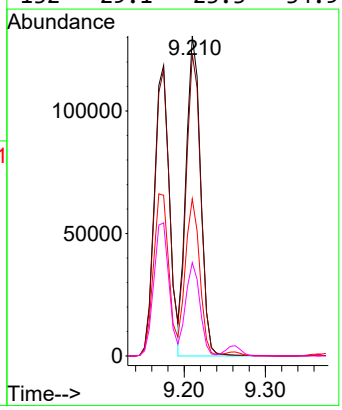


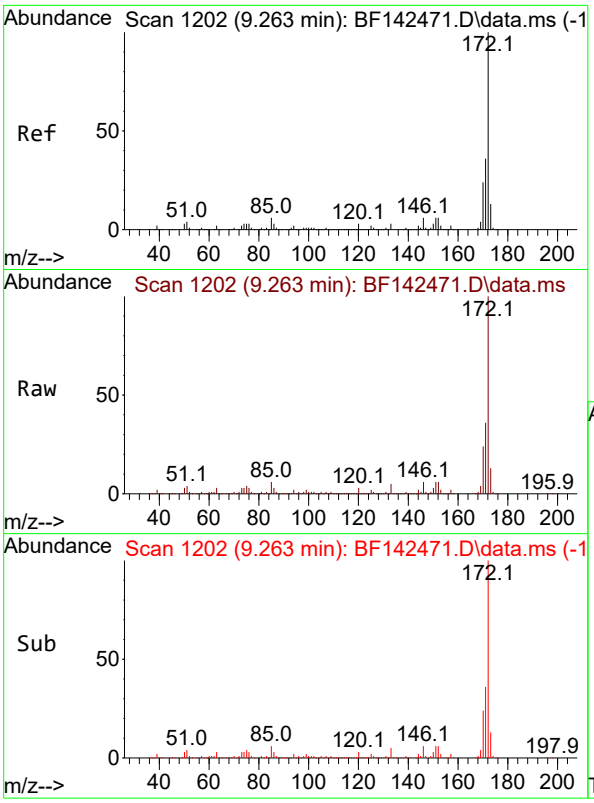


#44
2,4,5-Trichlorophenol
Concen: 38.667 ng
RT: 9.210 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:196 Resp: 162880

Ion	Ratio	Lower	Upper
196	100		
198	94.4	75.5	113.3
97	49.1	39.3	58.9
132	29.1	23.3	34.9



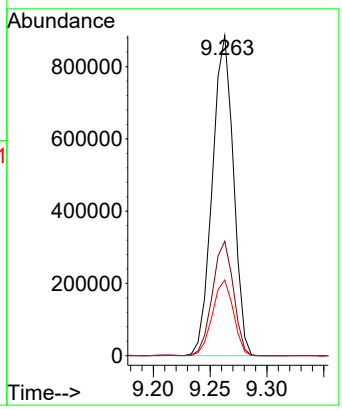


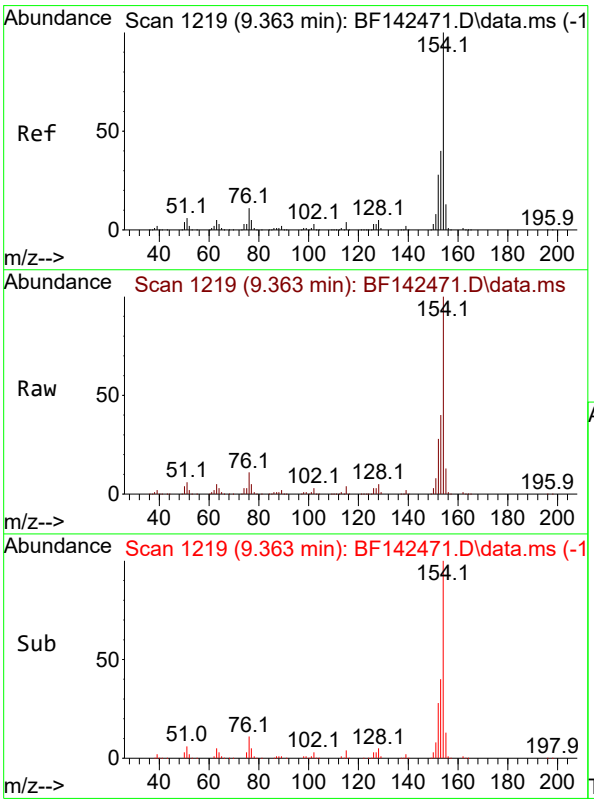
#45
2-Fluorobiphenyl
Concen: 74.452 ng
RT: 9.263 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:172 Resp: 1144883

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	42.8
170	23.6	18.9	28.3

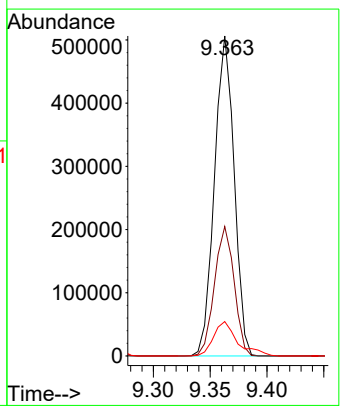


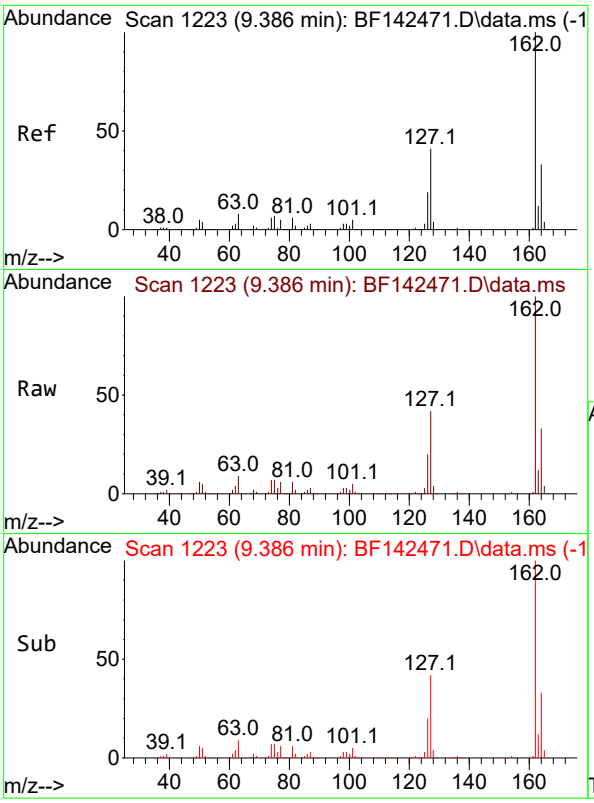


#46
1,1'-Biphenyl
Concen: 38.146 ng
RT: 9.363 min Scan# 1219
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:154 Resp: 610663

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.4	60.4
76	10.8	0.0	30.8



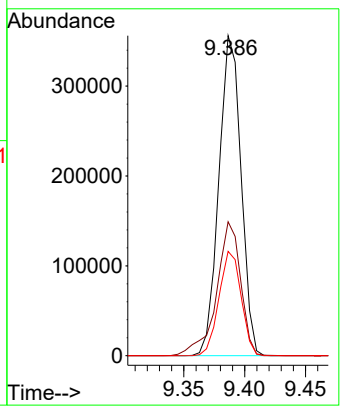


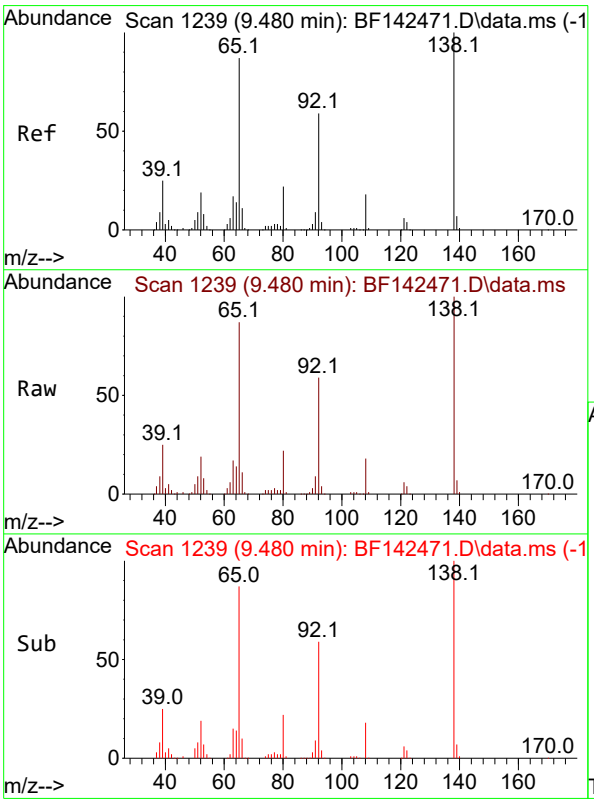
#47
2-Chloronaphthalene
Concen: 38.185 ng
RT: 9.386 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 451638

Ion	Ratio	Lower	Upper
162	100		
127	41.9	33.5	50.3
164	32.6	26.1	39.1

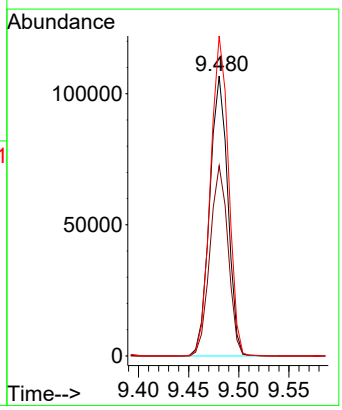


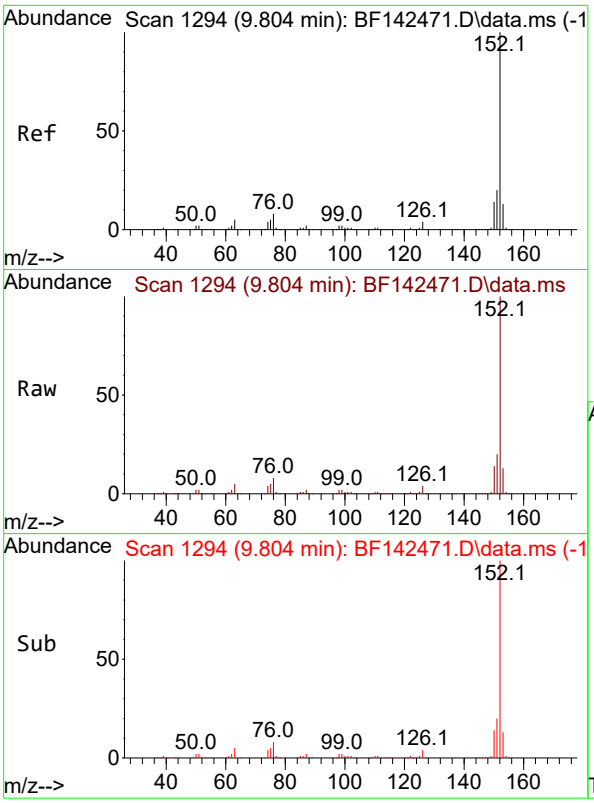


#48
2-Nitroaniline
Concen: 39.102 ng
RT: 9.480 min Scan# 1239
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion: 65 Resp: 133679

Ion	Ratio	Lower	Upper
65	100		
92	68.0	54.4	81.6
138	114.3	91.4	137.2



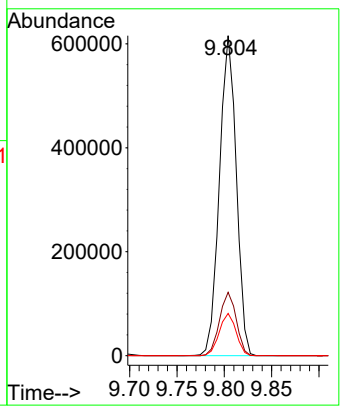


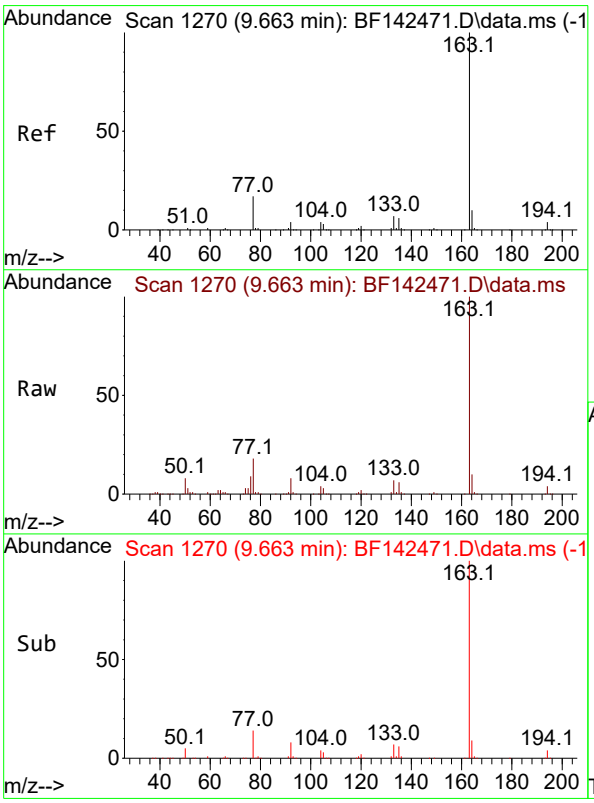
#49
Acenaphthylene
Concen: 38.240 ng
RT: 9.804 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 763730

Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.8
153	13.2	10.6	15.8

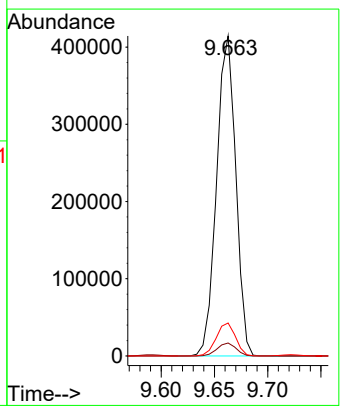


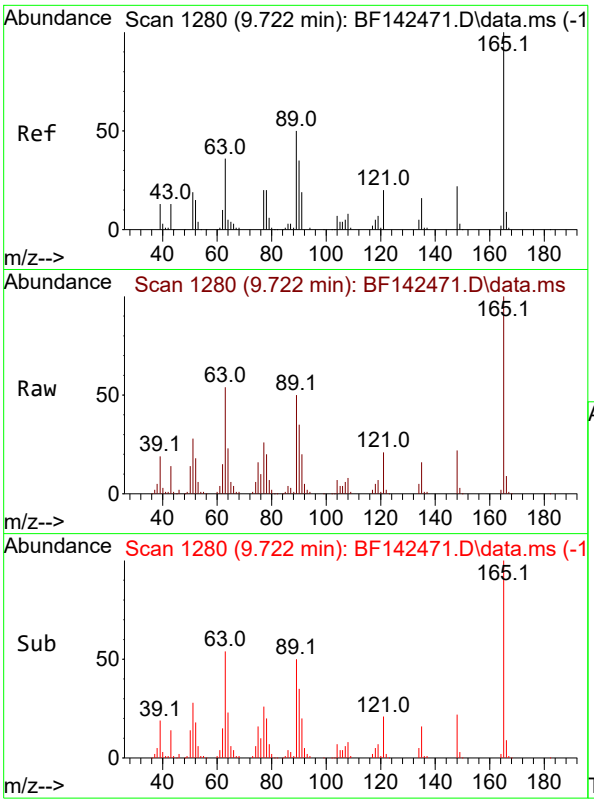


#50
Dimethylphthalate
Concen: 38.051 ng
RT: 9.663 min Scan# 1270
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:163 Resp: 518078

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.3	4.9
164	10.3	8.2	12.4



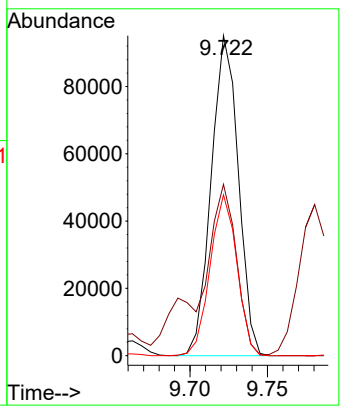


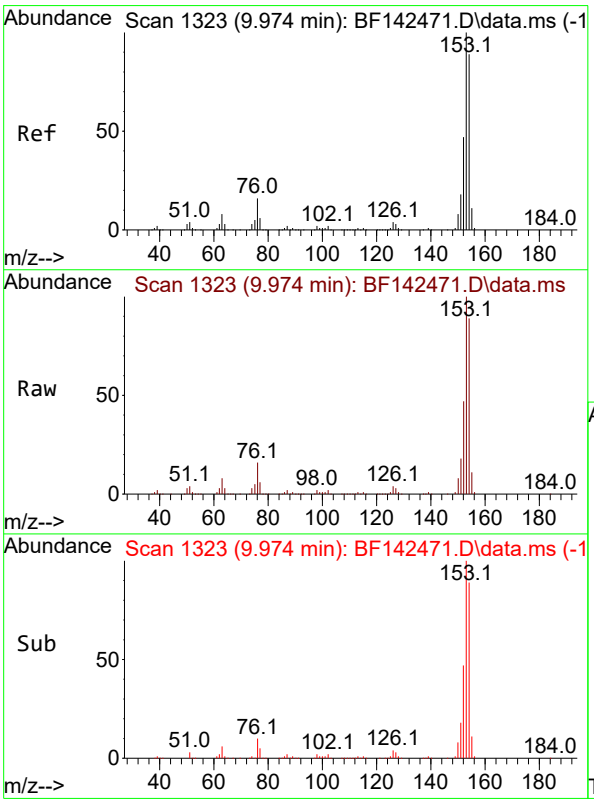
#51
2,6-Dinitrotoluene
Concen: 39.370 ng
RT: 9.722 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 115691

Ion	Ratio	Lower	Upper
165	100		
63	53.6	42.9	64.3
89	50.3	40.2	60.4

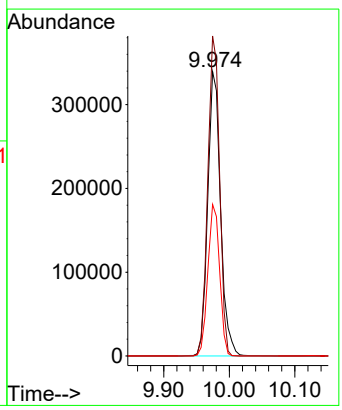


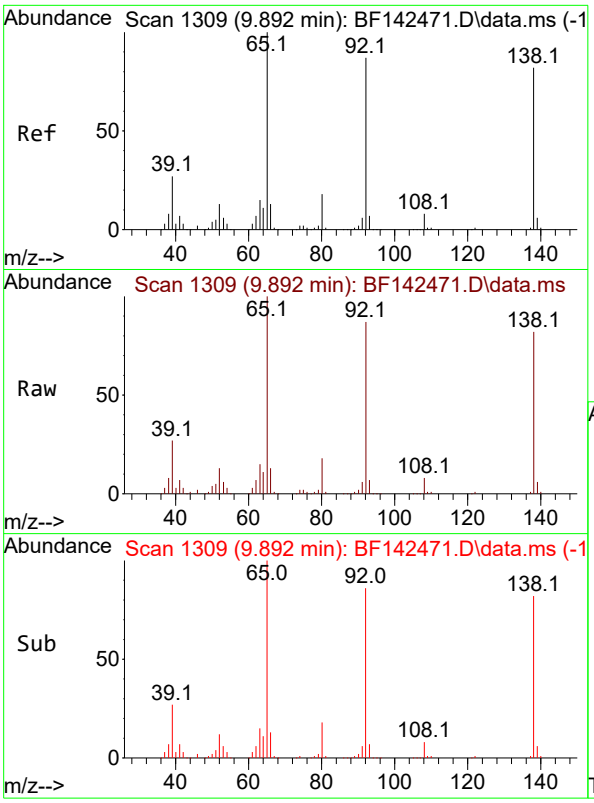


#52
Acenaphthene
Concen: 37.904 ng
RT: 9.974 min Scan# 1323
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:154 Resp: 462249

Ion	Ratio	Lower	Upper
154	100		
153	112.5	90.0	135.0
152	53.3	42.6	64.0



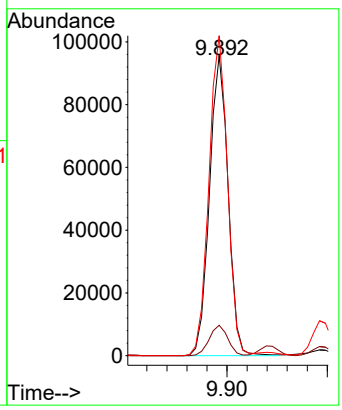


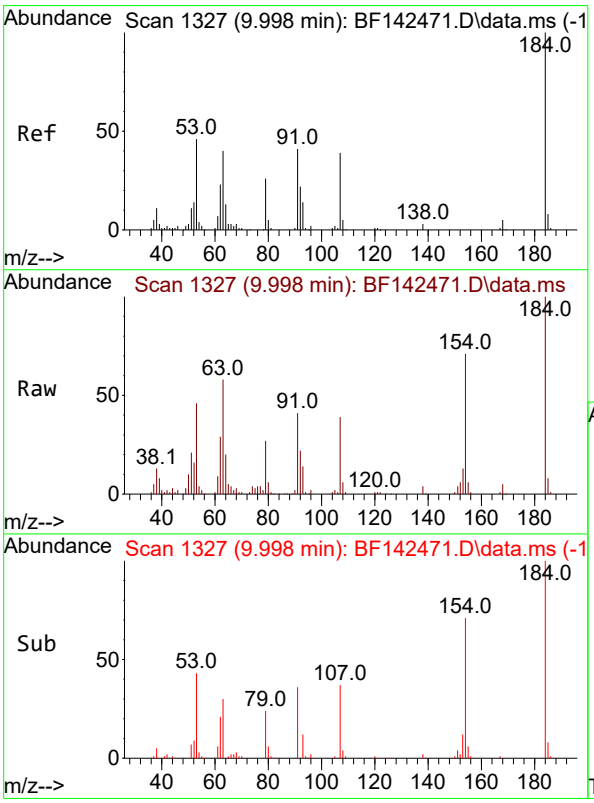
#53
3-Nitroaniline
Concen: 38.413 ng
RT: 9.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:138 Resp: 123293

Ion	Ratio	Lower	Upper
138	100		
108	10.1	8.1	12.1
92	106.5	85.2	127.8

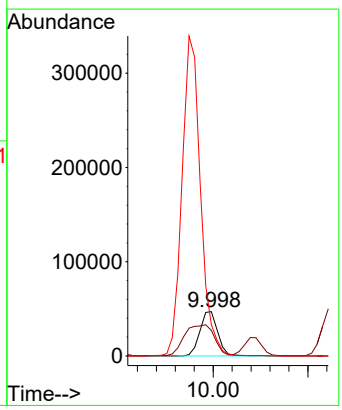


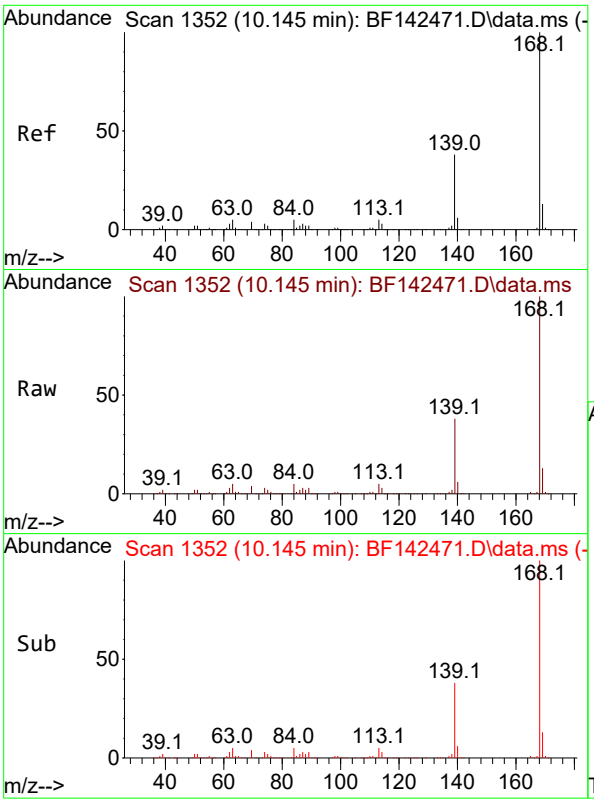


#54
2,4-Dinitrophenol
Concen: 40.477 ng
RT: 9.998 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:184 Resp: 61452

Ion	Ratio	Lower	Upper
184	100		
63	57.9	46.3	69.5
154	71.0	56.8	85.2



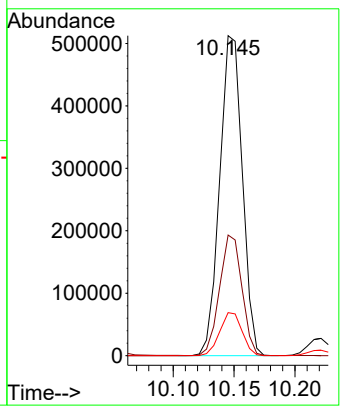


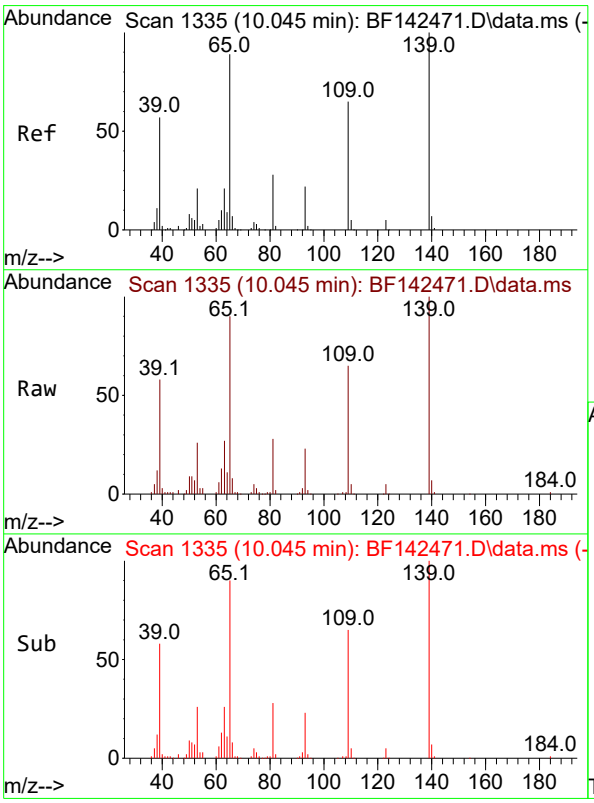
#55
Dibenzofuran
Concen: 37.758 ng
RT: 10.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:168 Resp: 662626

Ion	Ratio	Lower	Upper
168	100		
139	37.7	30.2	45.2
169	13.4	10.7	16.1

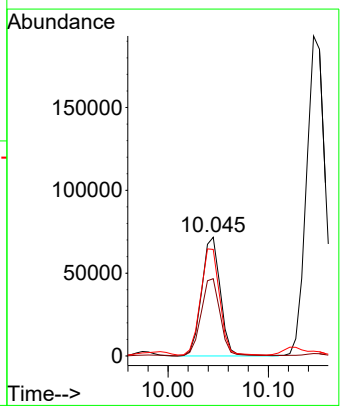


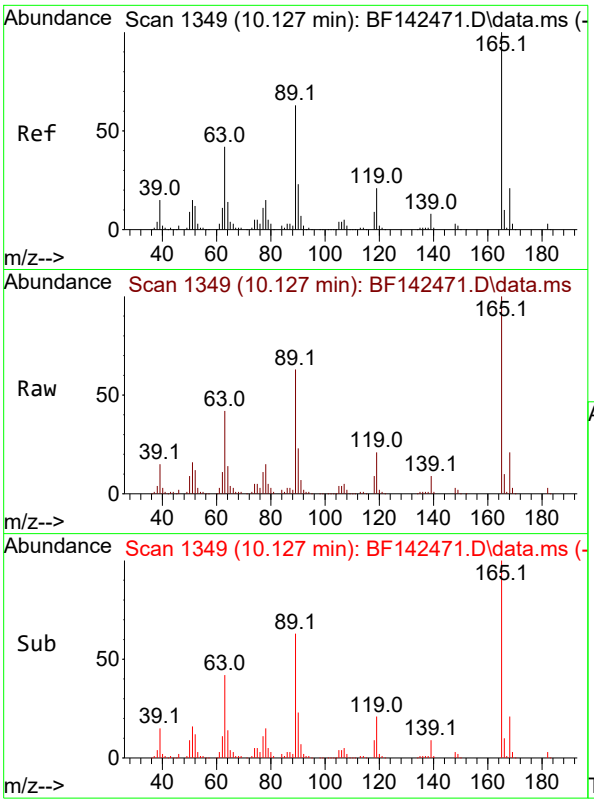


#56
4-Nitrophenol
Concen: 39.526 ng
RT: 10.045 min Scan# 1335
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:139 Resp: 93606

Ion	Ratio	Lower	Upper
139	100		
109	65.1	45.1	85.1
65	89.7	69.7	109.7



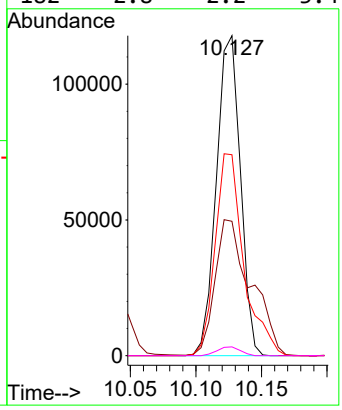


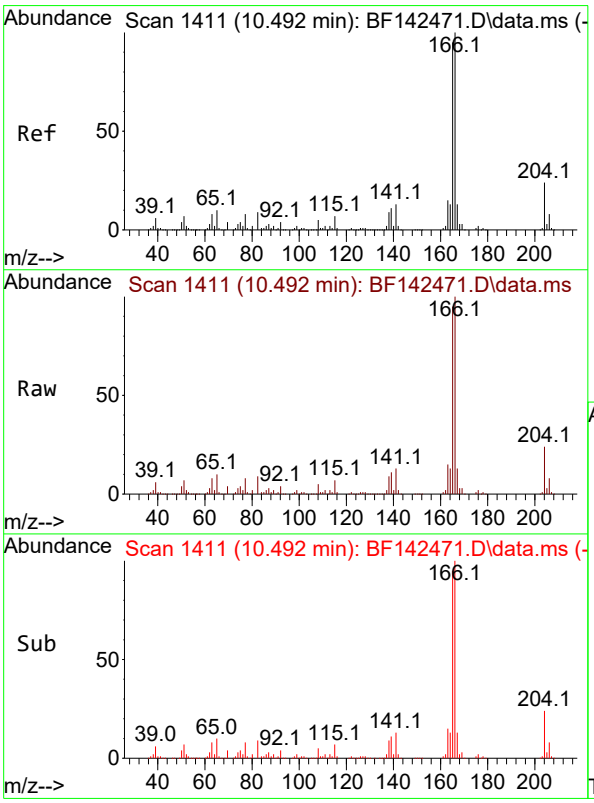
#57
2,4-Dinitrotoluene
Concen: 39.095 ng
RT: 10.127 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 150036

Ion	Ratio	Lower	Upper
165	100		
63	42.0	33.6	50.4
89	62.8	50.2	75.4
182	2.8	2.2	3.4

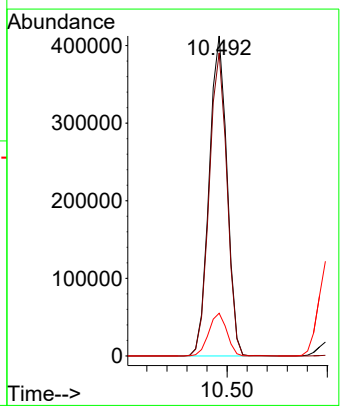


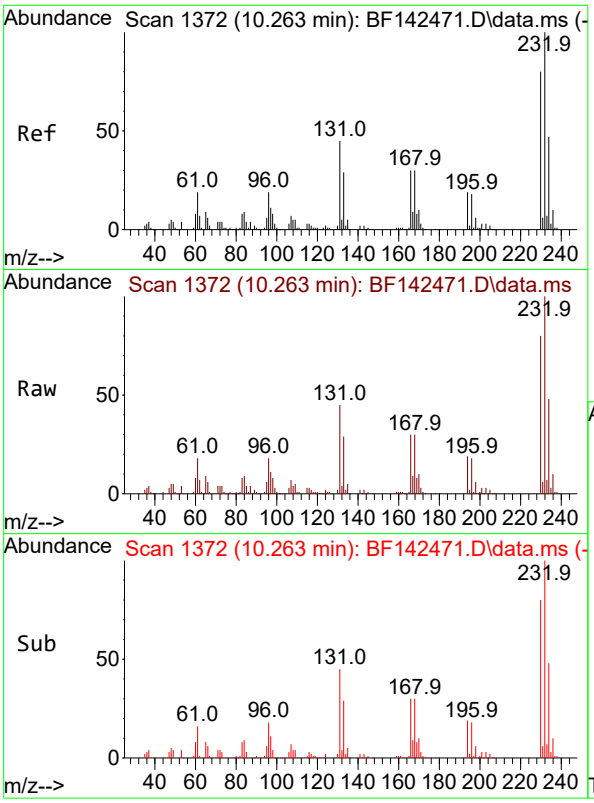


#58
Fluorene
Concen: 37.457 ng
RT: 10.492 min Scan# 1411
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:166 Resp: 507836

Ion	Ratio	Lower	Upper
166	100		
165	94.8	75.8	113.8
167	13.3	10.6	16.0



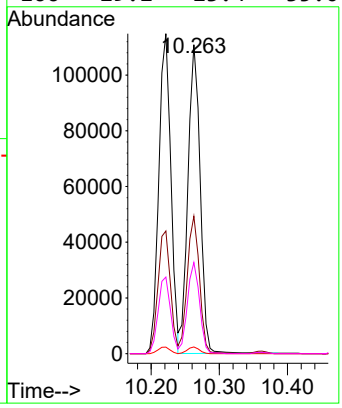


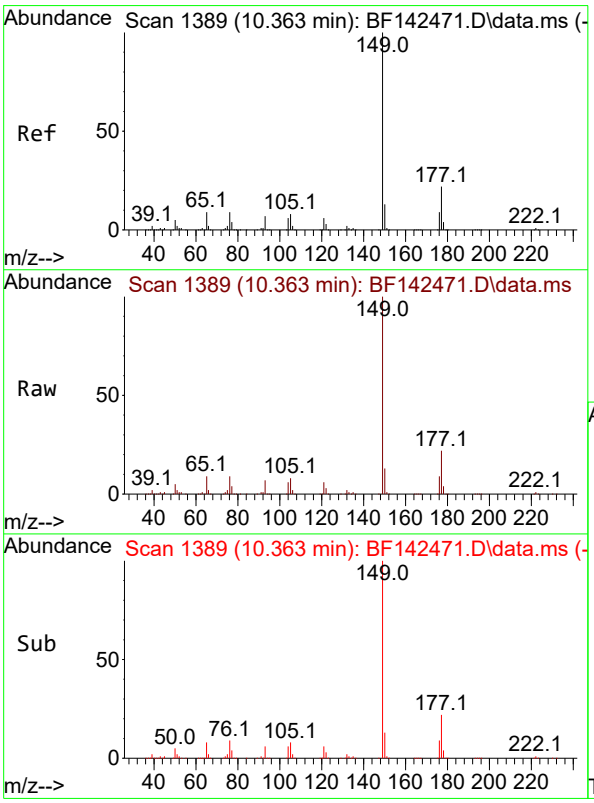
#59
2,3,4,6-Tetrachlorophenol
Concen: 39.022 ng
RT: 10.263 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:232 Resp: 137225

Ion	Ratio	Lower	Upper
232	100		
131	44.0	35.2	52.8
130	2.1	1.7	2.5
166	29.2	23.4	35.0

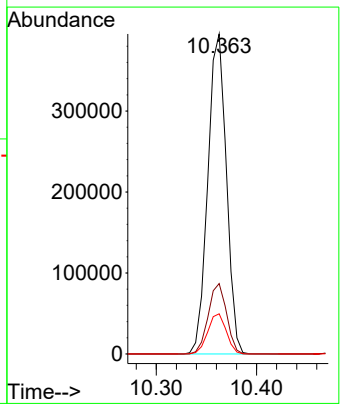


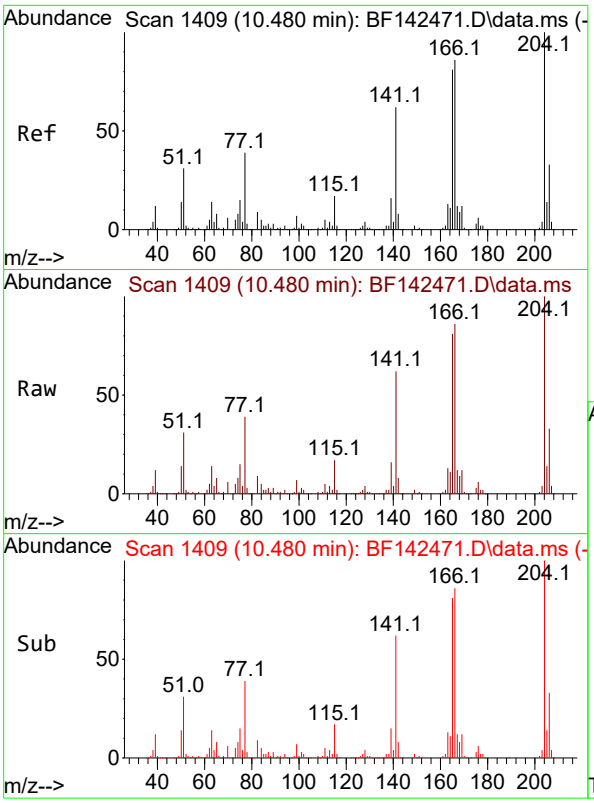


#60
Diethylphthalate
Concen: 38.217 ng
RT: 10.363 min Scan# 1389
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:149 Resp: 508183

Ion	Ratio	Lower	Upper
149	100		
177	22.0	17.6	26.4
150	12.6	10.1	15.1



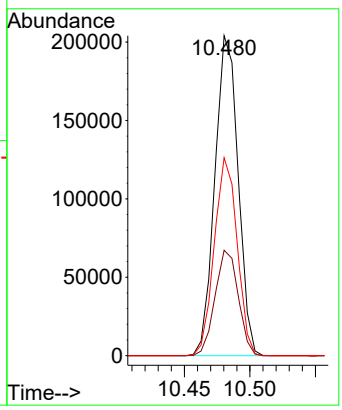


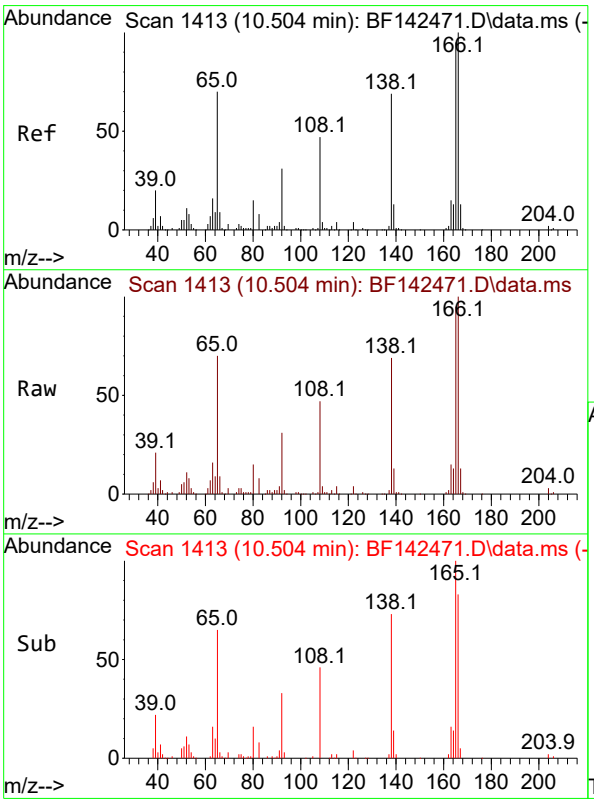
#61
4-Chlorophenyl-phenylether
Concen: 37.706 ng
RT: 10.480 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:204 Resp: 251129

Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.3	39.5
141	61.9	49.5	74.3

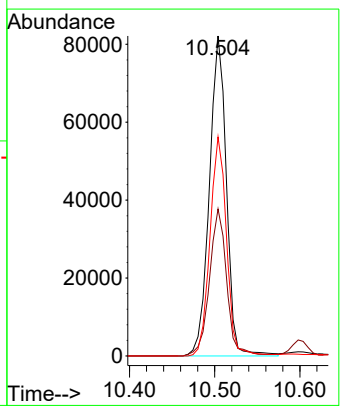


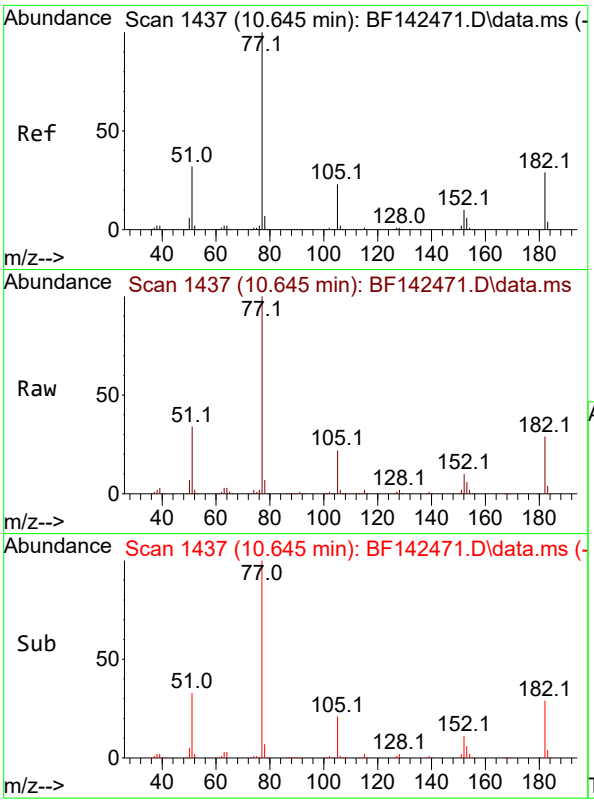


#62
4-Nitroaniline
Concen: 39.253 ng
RT: 10.504 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:138 Resp: 114265

Ion	Ratio	Lower	Upper
138	100		
92	46.0	26.0	66.0
108	68.4	48.4	88.4



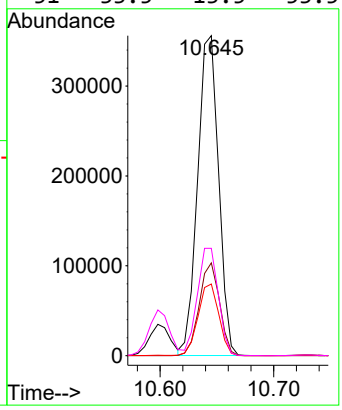


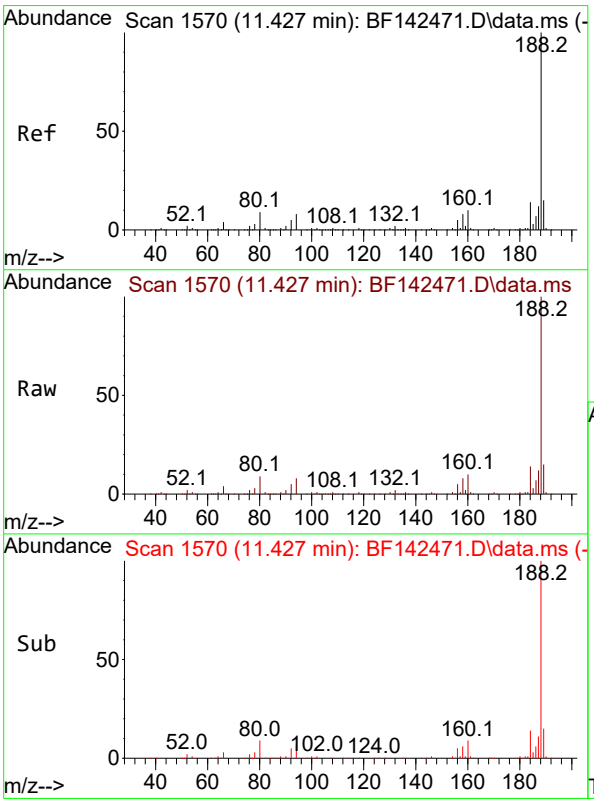
#63
Azobenzene
Concen: 38.246 ng
RT: 10.645 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 456781

Ion	Ratio	Lower	Upper
77	100		
182	29.0	9.0	49.0
105	22.4	2.4	42.4
51	33.5	13.5	53.5

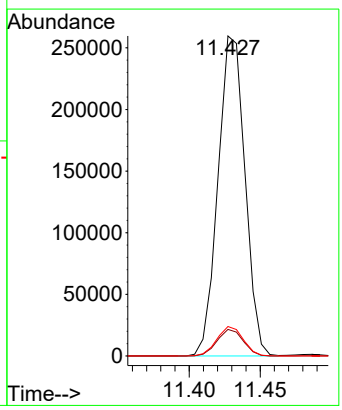


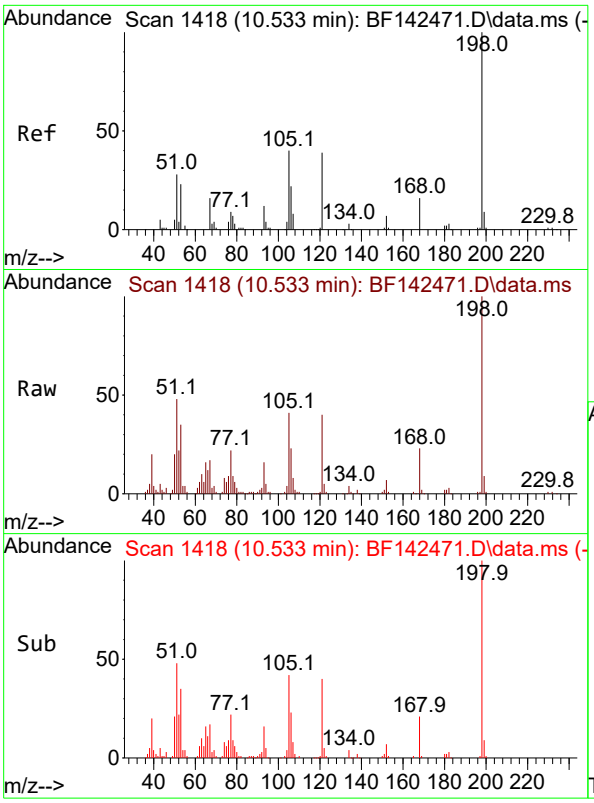


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:188 Resp: 343068

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.6	10.0
80	9.2	7.4	11.0



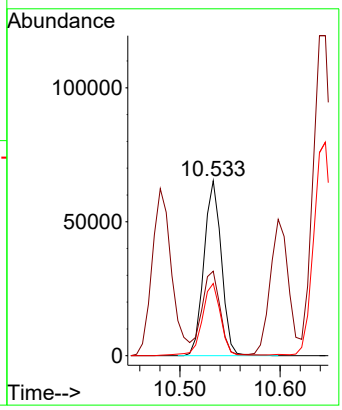


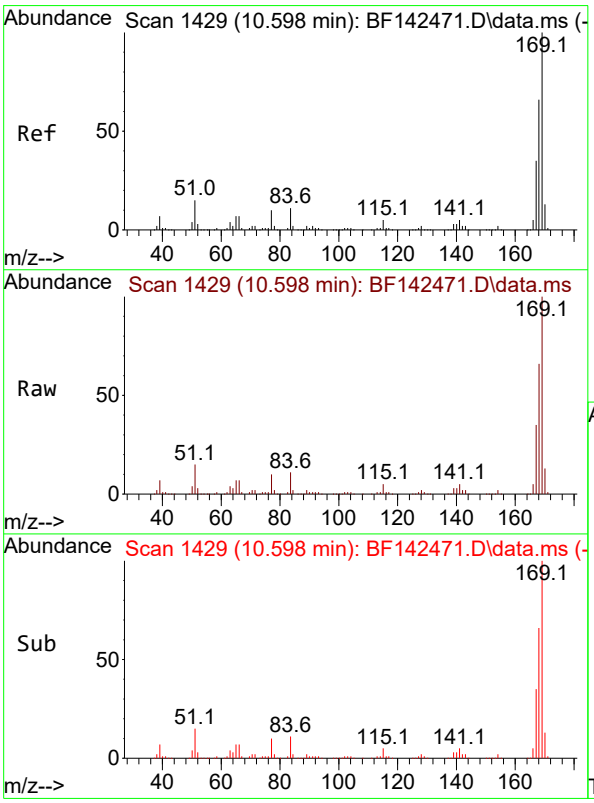
#65
4,6-Dinitro-2-methylphenol
Concen: 41.326 ng
RT: 10.533 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:198 Resp: 79121

Ion	Ratio	Lower	Upper
198	100		
51	48.3	28.3	68.3
105	41.3	21.3	61.3

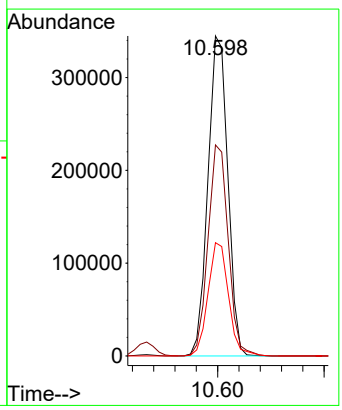


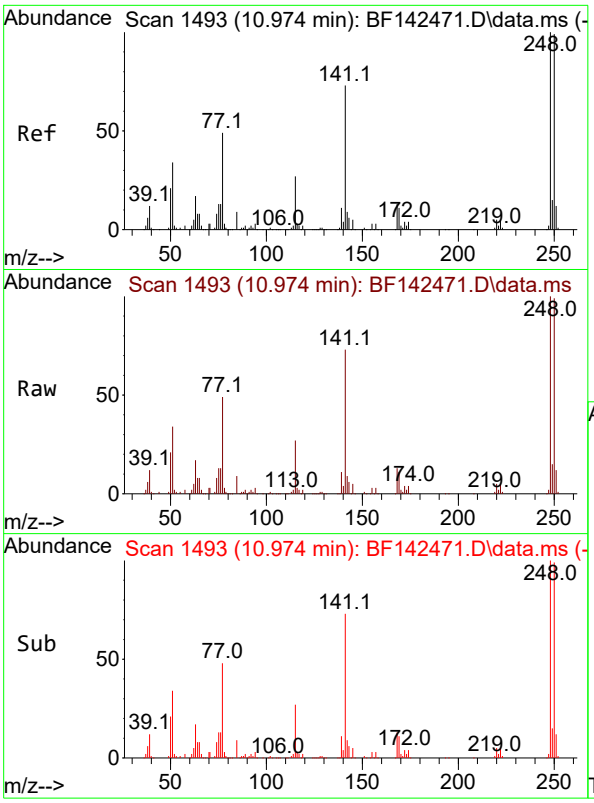


#66
n-Nitrosodiphenylamine
Concen: 37.917 ng
RT: 10.598 min Scan# 1429
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:169 Resp: 445033

Ion	Ratio	Lower	Upper
169	100		
168	65.9	52.7	79.1
167	35.4	28.3	42.5



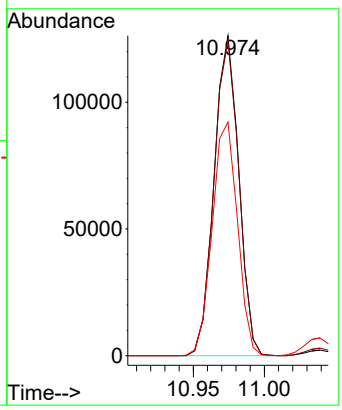


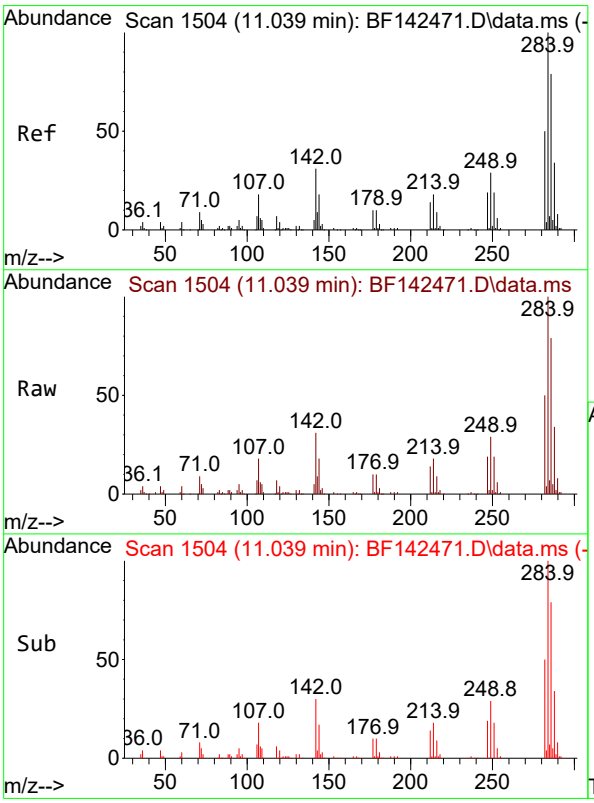
#67
4-Bromophenyl-phenylether
Concen: 37.556 ng
RT: 10.974 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:248 Resp: 152348

Ion	Ratio	Lower	Upper
248	100		
250	98.7	79.0	118.4
141	73.0	58.4	87.6

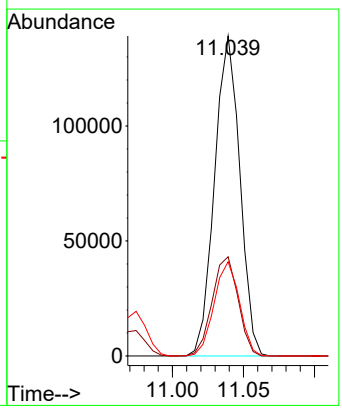


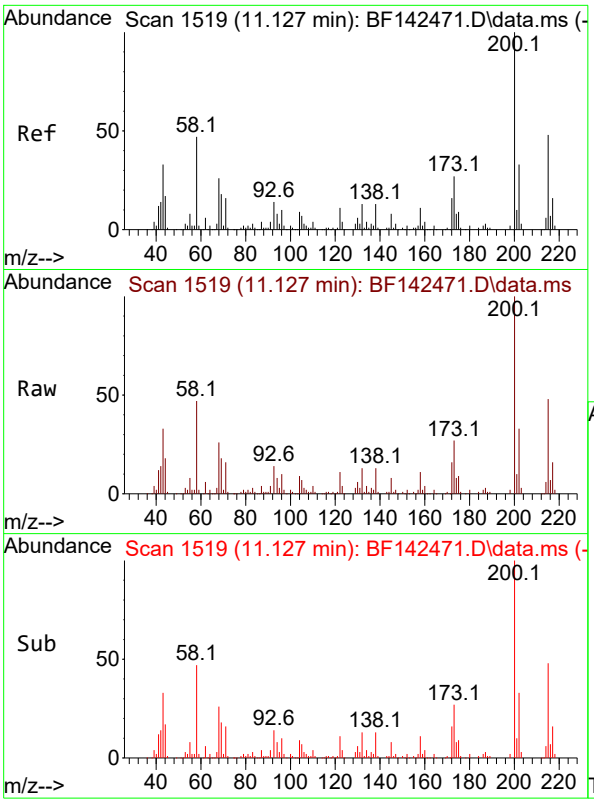


#68
Hexachlorobenzene
Concen: 38.318 ng
RT: 11.039 min Scan# 1504
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:284 Resp: 171918

Ion	Ratio	Lower	Upper
284	100		
142	31.0	24.8	37.2
249	29.5	23.6	35.4



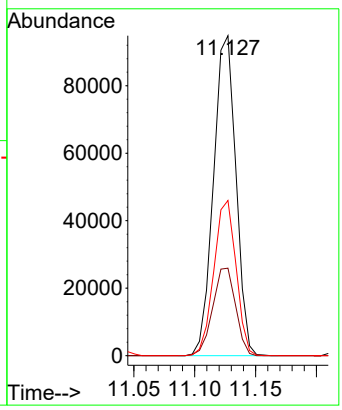


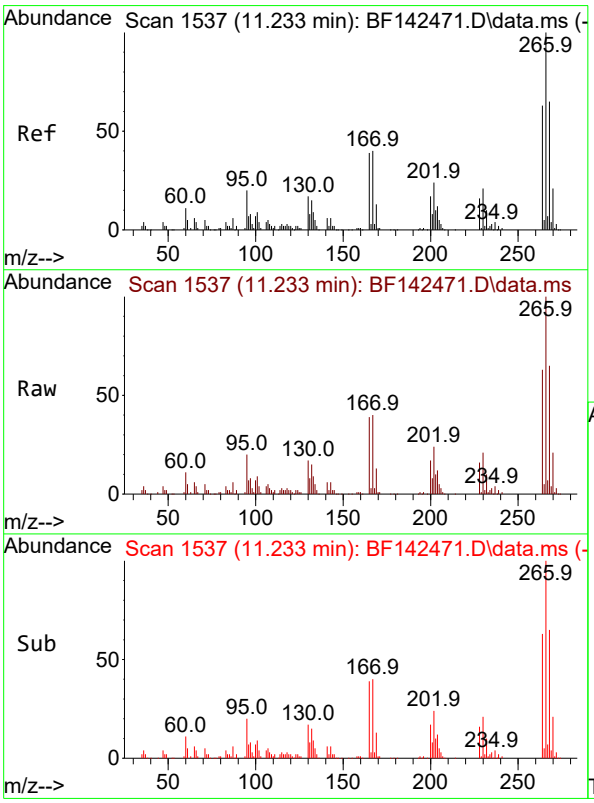
#69
Atrazine
Concen: 39.072 ng
RT: 11.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:200 Resp: 121790

Ion	Ratio	Lower	Upper
200	100		
173	27.4	7.4	47.4
215	48.5	28.5	68.5

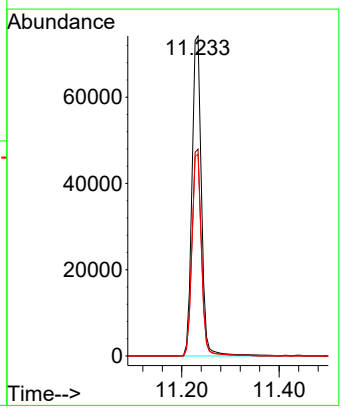


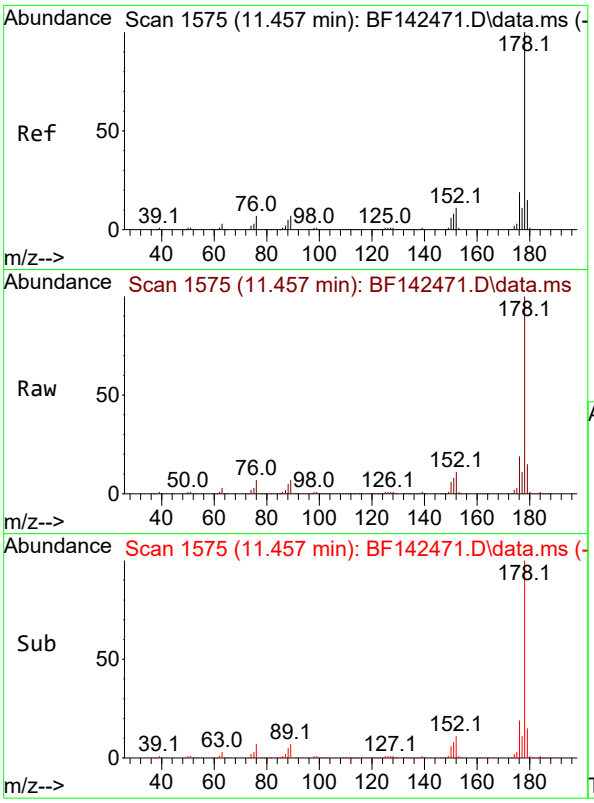


#70
Pentachlorophenol
Concen: 39.824 ng
RT: 11.233 min Scan# 1537
Delta R.T. 0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:266 Resp: 100877

Ion	Ratio	Lower	Upper
266	100		
268	64.6	51.7	77.5
264	63.0	50.4	75.6



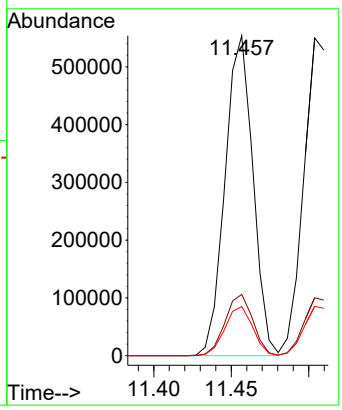


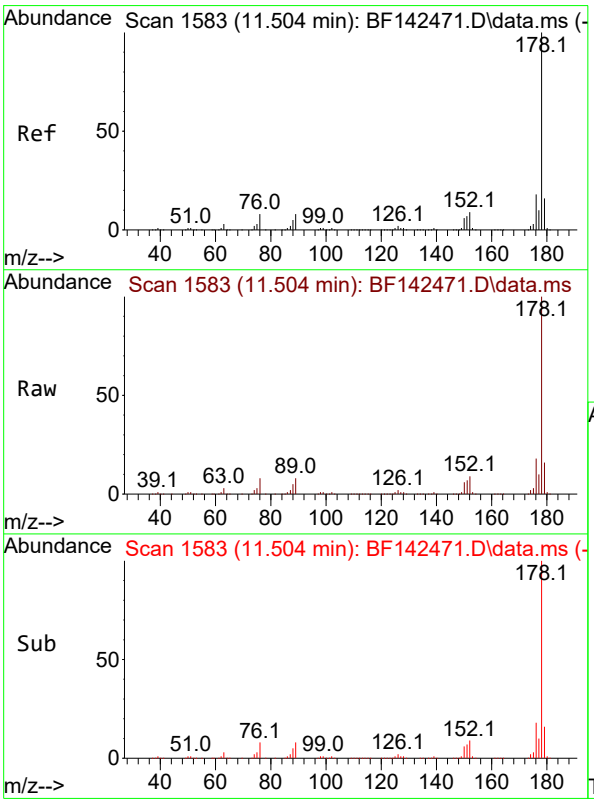
#71
Phenanthrene
Concen: 37.855 ng
RT: 11.457 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:178 Resp: 694045

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.0
179	15.4	12.3	18.5

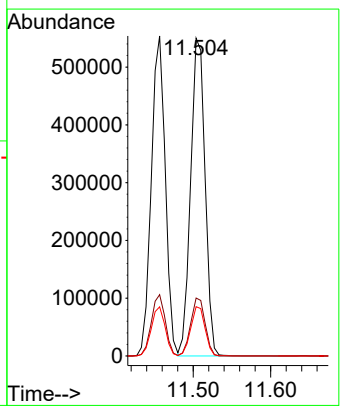


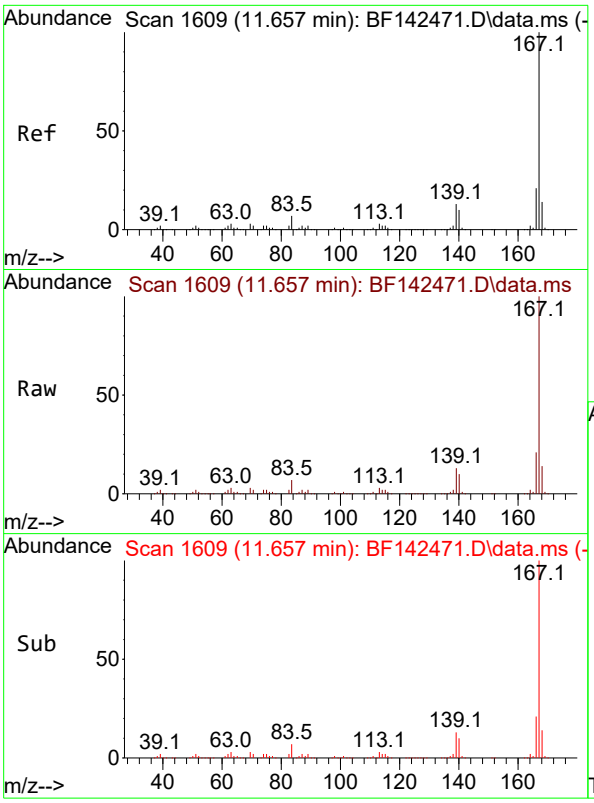


#72
Anthracene
Concen: 38.007 ng
RT: 11.504 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:178 Resp: 711162

Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.6	21.8
179	15.5	12.4	18.6



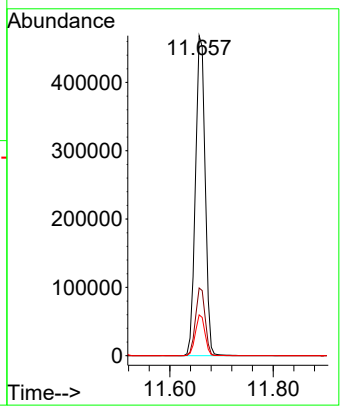


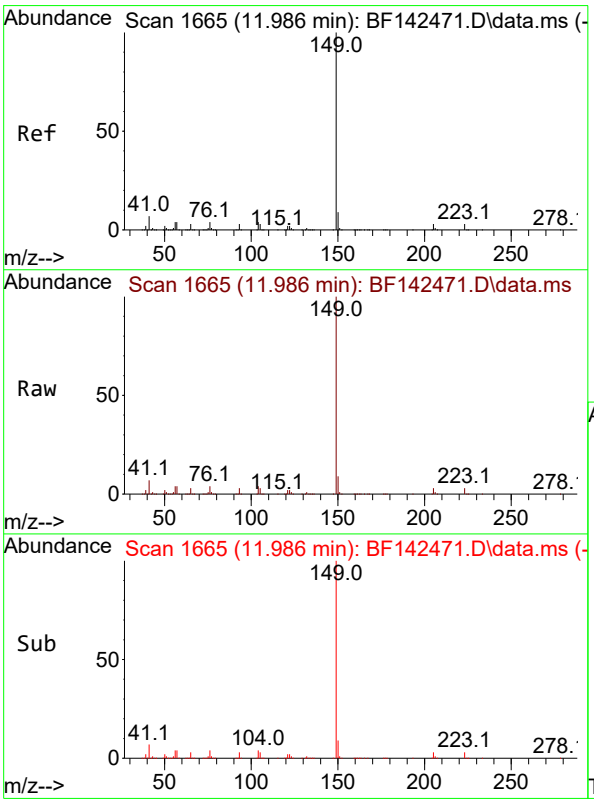
#73
Carbazole
Concen: 38.140 ng
RT: 11.657 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:167 Resp: 610097

Ion	Ratio	Lower	Upper
167	100		
166	21.1	16.9	25.3
139	12.8	10.2	15.4

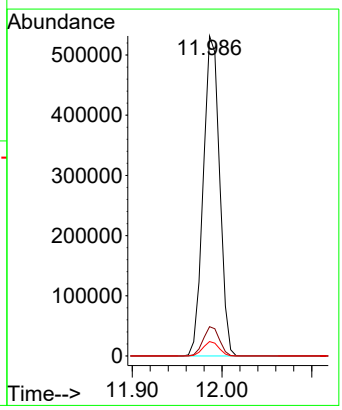


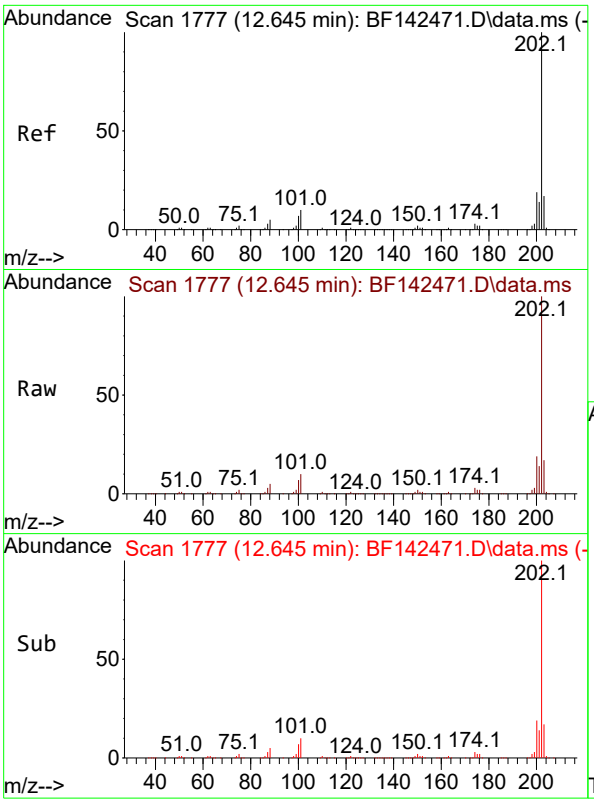


#74
Di-n-butylphthalate
Concen: 38.227 ng
RT: 11.986 min Scan# 1665
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:149 Resp: 669345

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.3	10.9
104	4.5	3.6	5.4



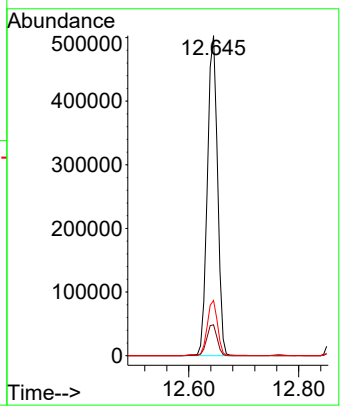


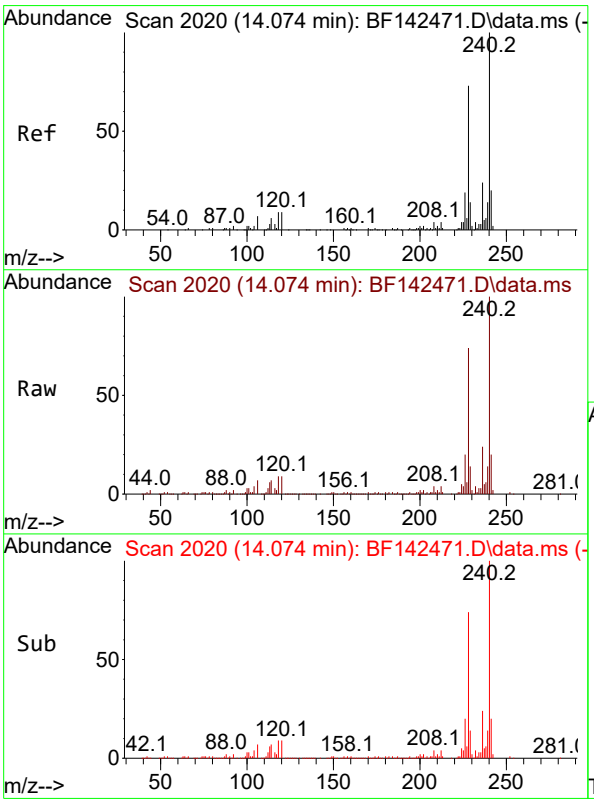
#75
Fluoranthene
Concen: 37.569 ng
RT: 12.645 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:202 Resp: 643610

Ion	Ratio	Lower	Upper
202	100		
101	9.6	0.0	29.6
203	17.2	0.0	37.2

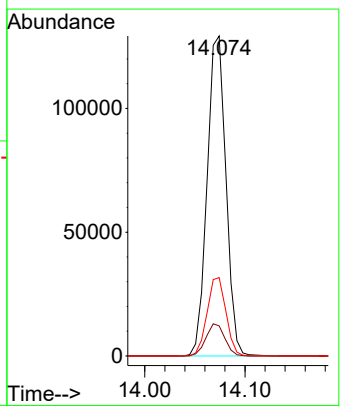


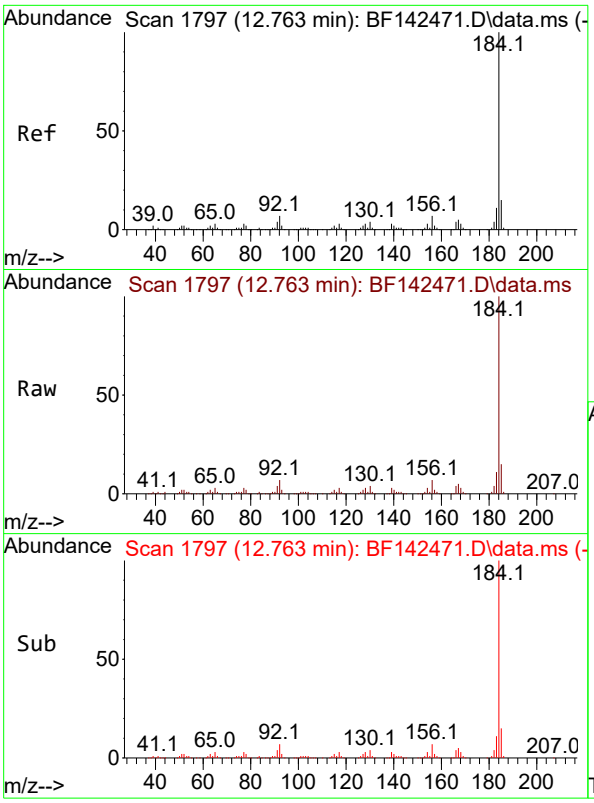


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.074 min Scan# 2020
Delta R.T. -0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:240 Resp: 169022

Ion	Ratio	Lower	Upper
240	100		
120	9.4	7.5	11.3
236	24.5	19.6	29.4



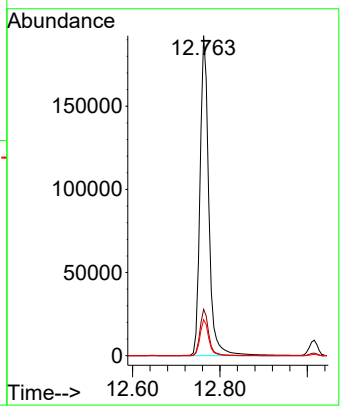


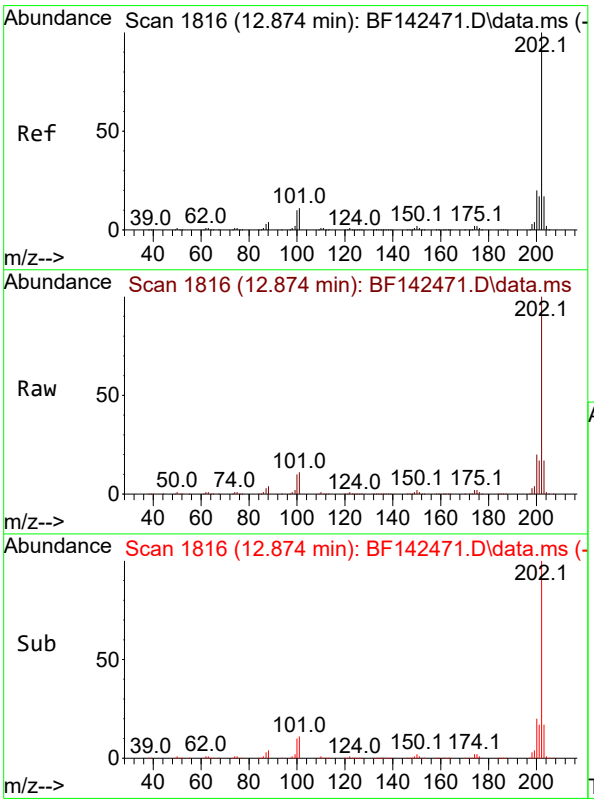
#77
Benzidine
Concen: 42.816 ng
RT: 12.763 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:184 Resp: 269307

Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.6	17.4
183	11.2	9.0	13.4

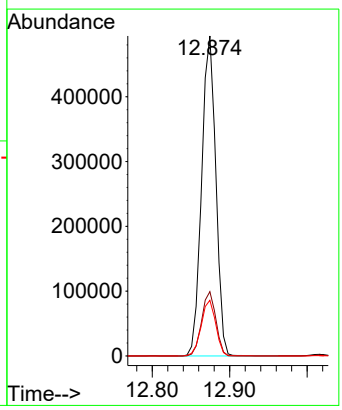


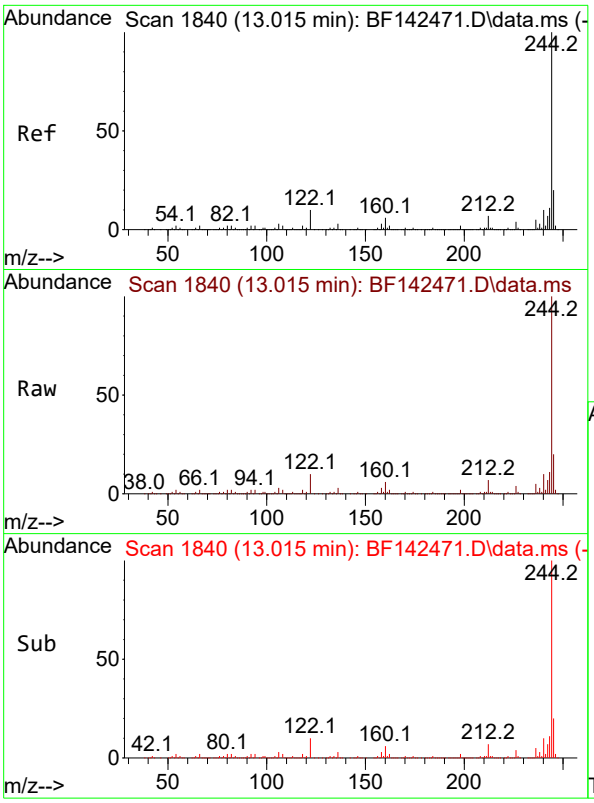


#78
Pyrene
Concen: 39.853 ng
RT: 12.874 min Scan# 1816
Delta R.T. 0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:202 Resp: 628371

Ion	Ratio	Lower	Upper
202	100		
200	20.1	16.1	24.1
203	17.4	13.9	20.9



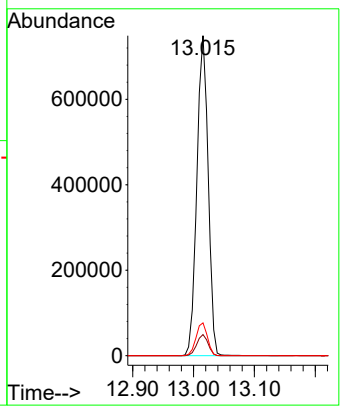


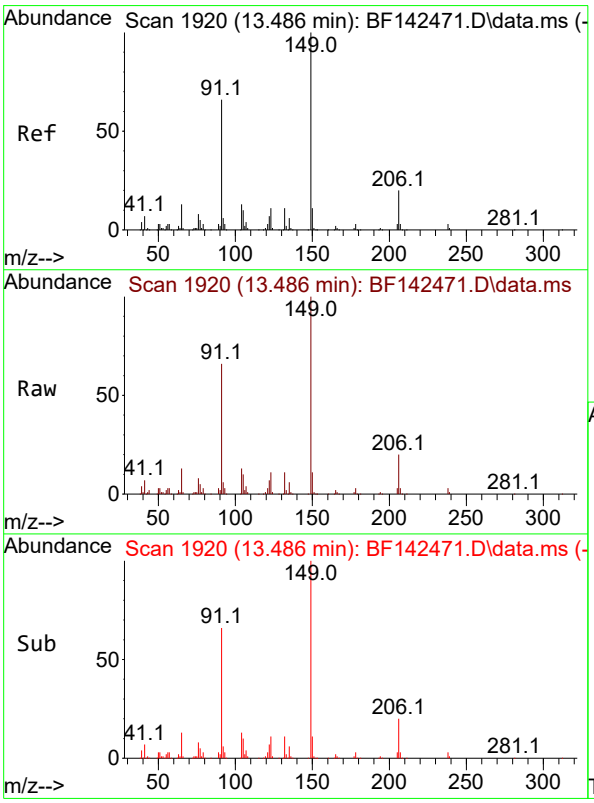
#79
Terphenyl-d14
Concen: 77.802 ng
RT: 13.015 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:244 Resp: 962300

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.3	7.9
122	10.2	8.2	12.2

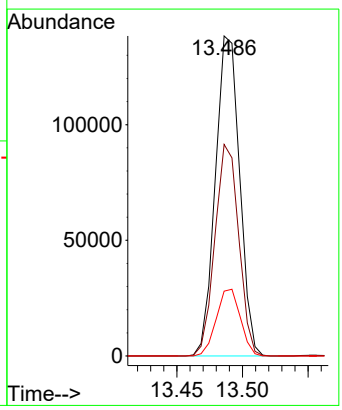


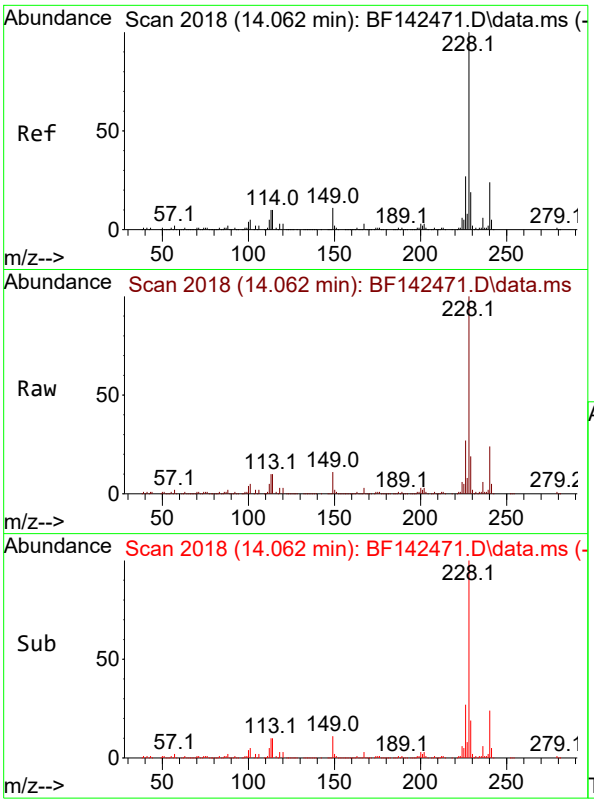


#80
Butylbenzylphthalate
Concen: 40.819 ng
RT: 13.486 min Scan# 1920
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:149 Resp: 177841

Ion	Ratio	Lower	Upper
149	100		
91	66.1	52.9	79.3
206	20.2	16.2	24.2



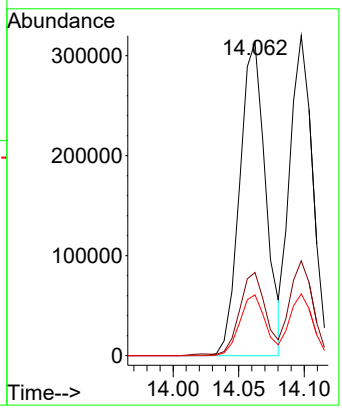


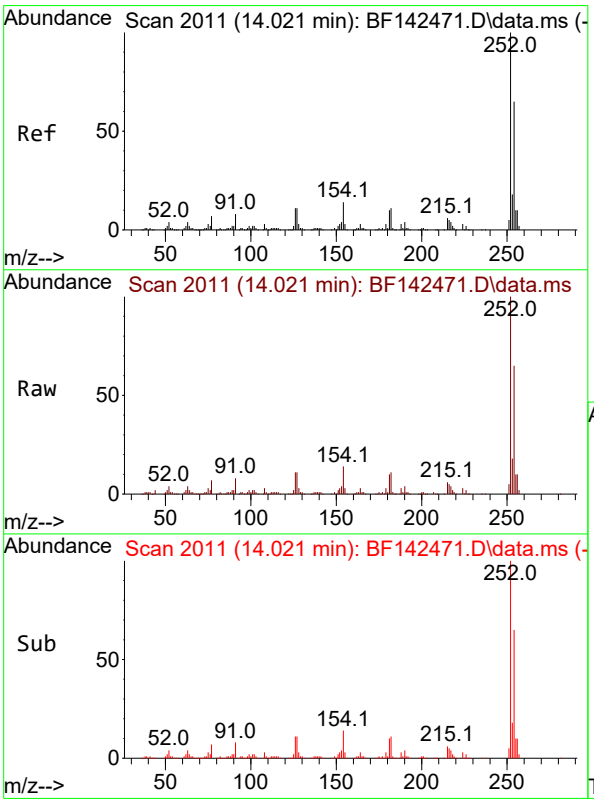
#81
Benzo(a)anthracene
Concen: 38.276 ng
RT: 14.062 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 431998

Ion	Ratio	Lower	Upper
228	100		
226	26.5	21.2	31.8
229	19.4	15.5	23.3

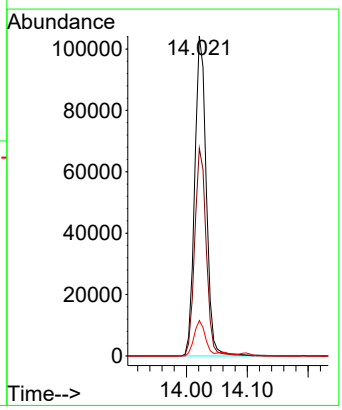


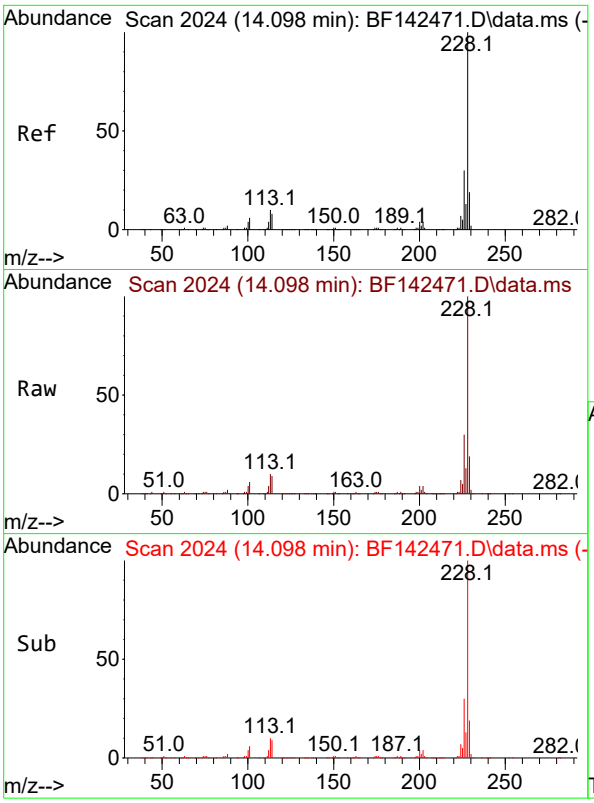


#82
3,3'-Dichlorobenzidine
Concen: 40.148 ng
RT: 14.021 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:252 Resp: 137438

Ion	Ratio	Lower	Upper
252	100		
254	65.0	52.0	78.0
126	11.1	8.9	13.3



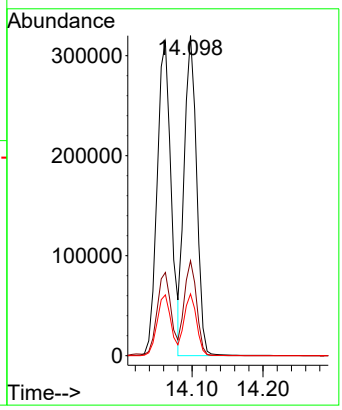


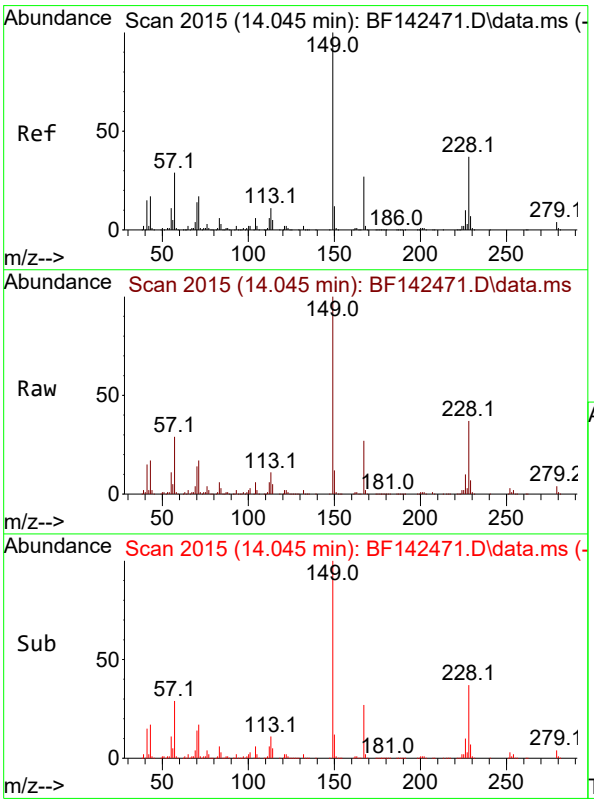
#83
Chrysene
Concen: 38.168 ng
RT: 14.098 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 387081

Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.8	35.6
229	19.3	15.4	23.2

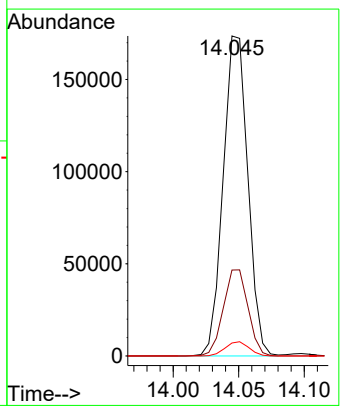


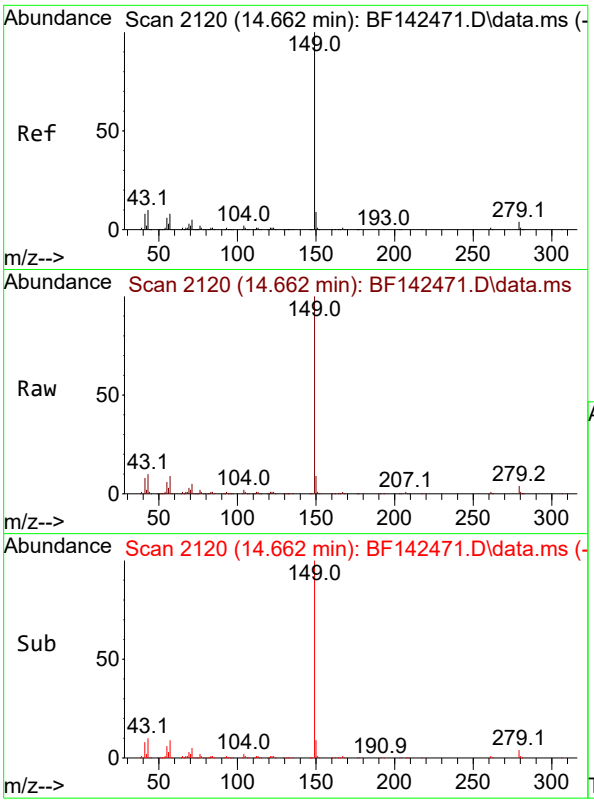


#84
Bis(2-ethylhexyl)phthalate
Concen: 40.800 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:149 Resp: 227555

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.5	32.3
279	4.0	3.2	4.8



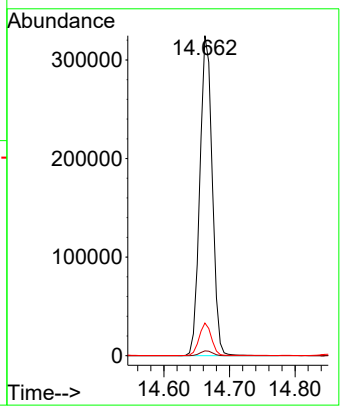


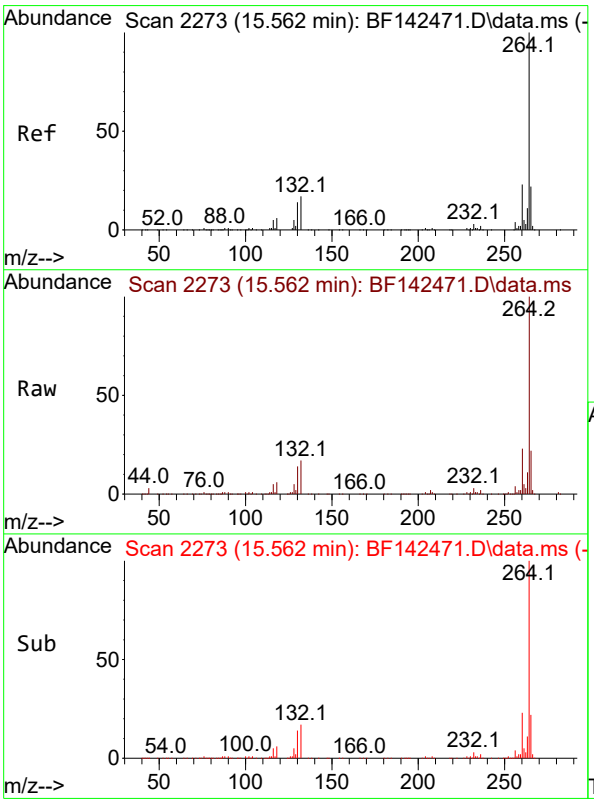
#85
Di-n-octyl phthalate
Concen: 39.246 ng
RT: 14.662 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:149 Resp: 427995

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	9.9	7.9	11.9

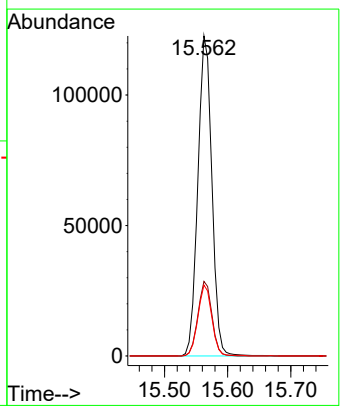


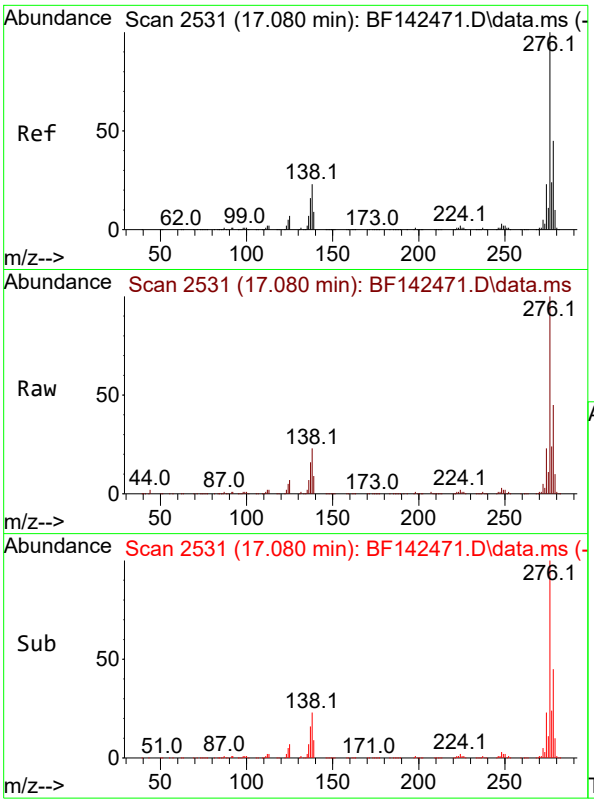


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:264 Resp: 189289

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	22.1	17.7	26.5



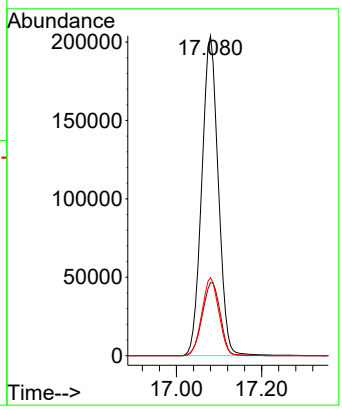


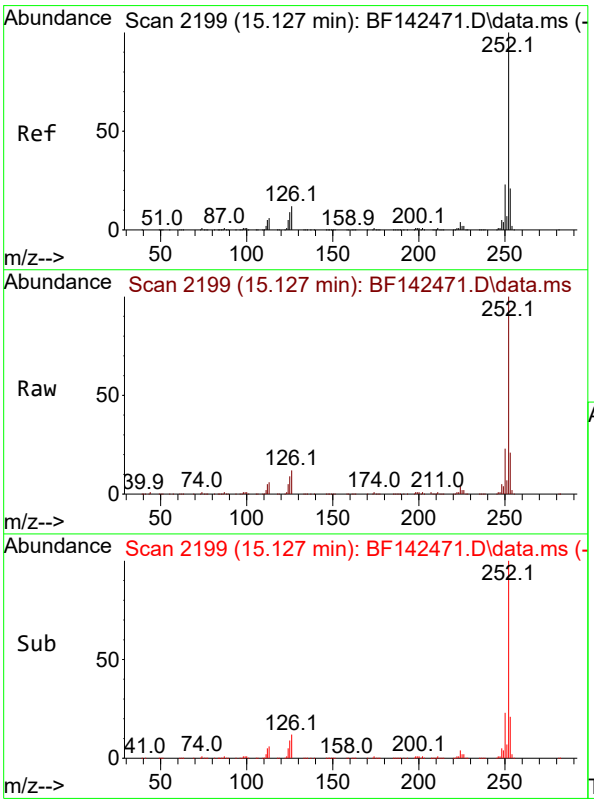
#87
Indeno(1,2,3-cd)pyrene
Concen: 38.584 ng
RT: 17.080 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:276 Resp: 548309

Ion	Ratio	Lower	Upper
276	100		
138	24.9	19.9	29.9
277	25.2	20.2	30.2

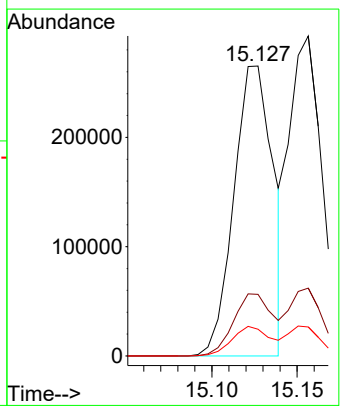


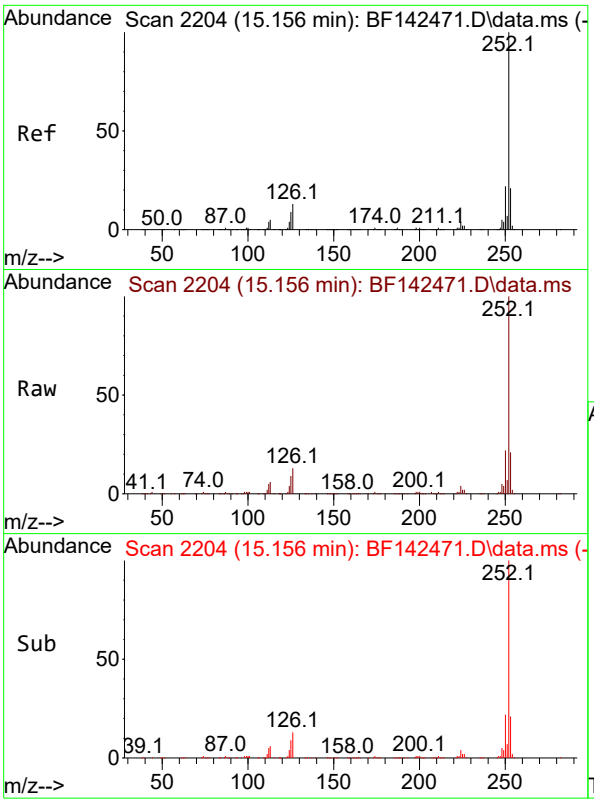


#88
Benzo(b)fluoranthene
Concen: 38.041 ng
RT: 15.127 min Scan# 2199
Delta R.T. 0.000 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:252 Resp: 426174

Ion	Ratio	Lower	Upper
252	100		
253	21.2	17.0	25.4
125	9.2	7.4	11.0



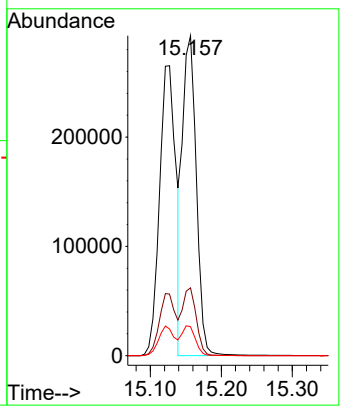


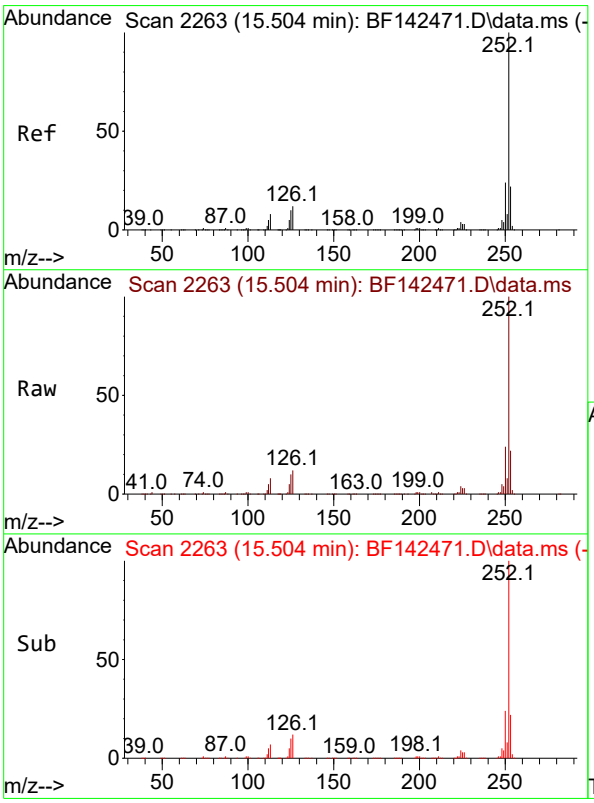
#89
Benzo(k)fluoranthene
Concen: 37.603 ng
RT: 15.156 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:252 Resp: 394567

Ion	Ratio	Lower	Upper
252	100		
253	21.2	17.0	25.4
125	9.1	7.3	10.9

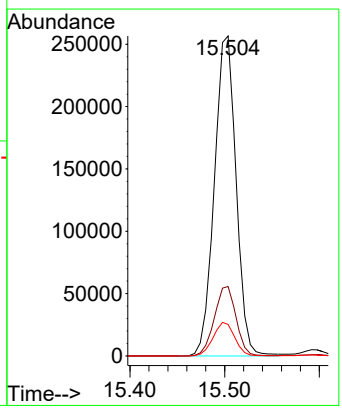


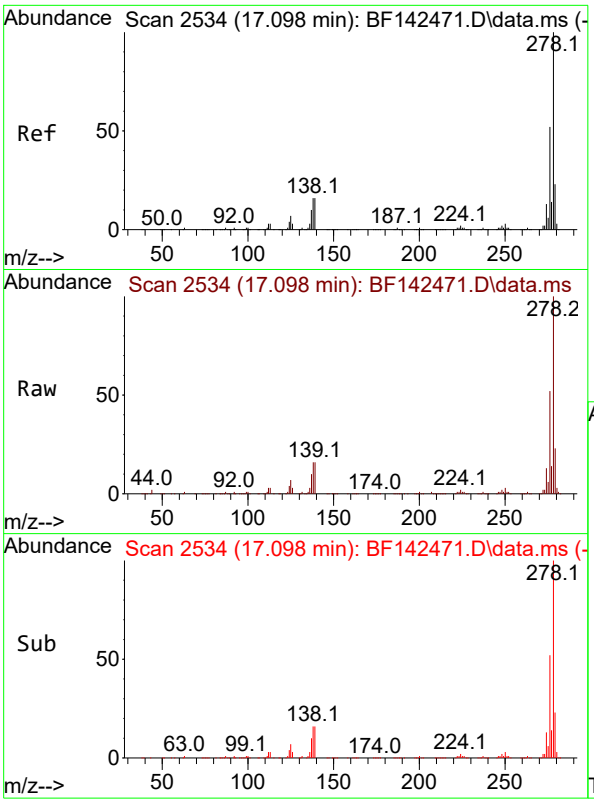


#90
Benzo(a)pyrene
Concen: 38.761 ng
RT: 15.504 min Scan# 2263
Delta R.T. -0.006 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:252 Resp: 409312

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0
125	9.9	7.9	11.9



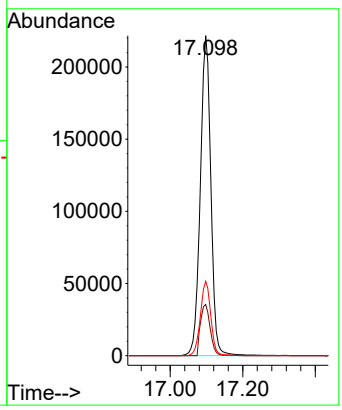


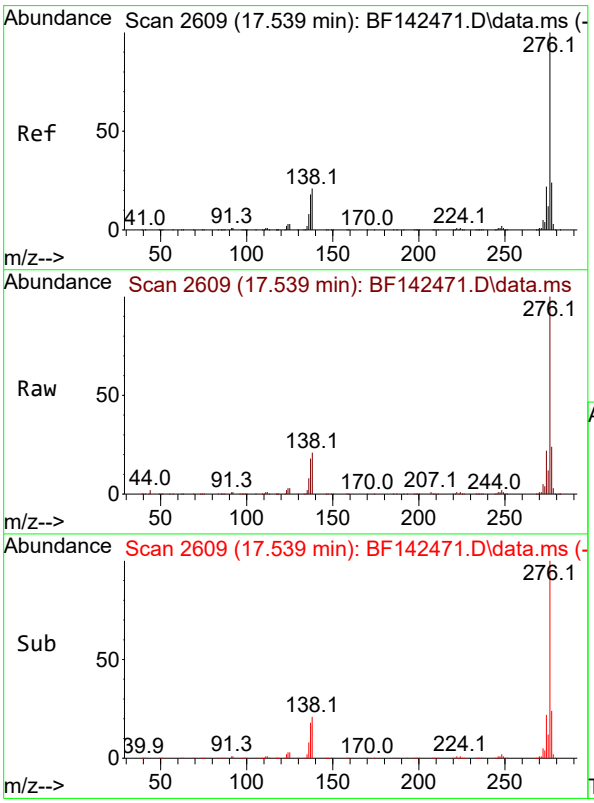
#91
Dibenzo(a,h)anthracene
Concen: 38.903 ng
RT: 17.098 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:278 Resp: 448372

Ion	Ratio	Lower	Upper
278	100		
139	16.0	12.8	19.2
279	23.3	18.6	28.0

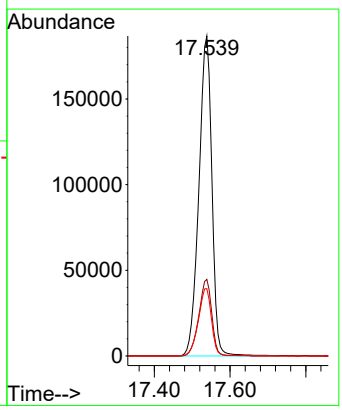




#92
Benzo(g,h,i)perylene
Concen: 38.747 ng
RT: 17.539 min Scan# 2609
Delta R.T. -0.018 min
Lab File: BF142471.D
Acq: 20 May 2025 14:05

Tgt Ion:276 Resp: 446674

Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.2	28.8
138	21.0	16.8	25.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142472.D
Acq On : 20 May 2025 14:34
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: May 20 16:55:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	86396	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	336796	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	181409	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	301685	20.000	ng	0.00
76) Chrysene-d12	14.074	240	149689	20.000	ng	0.00
86) Perylene-d12	15.562	264	171586	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	526965	102.760	ng	0.00
7) Phenol-d6	6.528	99	633841	102.679	ng	0.00
23) Nitrobenzene-d5	7.469	82	643186	104.135	ng	0.00
42) 2,4,6-Tribromophenol	10.733	330	211319	104.956	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	1342037	99.269	ng	0.00
79) Terphenyl-d14	13.016	244	1116751	101.951	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.669	88	107972	52.616	ng	99
3) Pyridine	3.434	79	275005	52.626	ng	99
4) n-Nitrosodimethylamine	3.393	42	145296	53.550	ng	99
6) Aniline	6.563	93	430377	51.852	ng	99
8) 2-Chlorophenol	6.687	128	288948	51.731	ng	99
9) Benzaldehyde	6.451	77	188241	50.700	ng	98
10) Phenol	6.540	94	357896	51.526	ng	99
11) bis(2-Chloroethyl)ether	6.634	93	261046	52.210	ng	100
12) 1,3-Dichlorobenzene	6.845	146	320095	51.357	ng	99
13) 1,4-Dichlorobenzene	6.922	146	322871	51.427	ng	99
14) 1,2-Dichlorobenzene	7.075	146	309332	51.491	ng	100
15) Benzyl Alcohol	7.040	79	244326	53.559	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.175	45	434451	51.741	ng	100
17) 2-Methylphenol	7.151	107	227385	52.141	ng	99
18) Hexachloroethane	7.416	117	114346	52.159	ng	99
19) n-Nitroso-di-n-propyla...	7.316	70	197020	51.498	ng	99
20) 3+4-Methylphenols	7.304	107	288829	51.719	ng	91
22) Acetophenone	7.310	105	380175	50.992	ng	97
24) Nitrobenzene	7.487	77	288748	51.834	ng	99
25) Isophorone	7.728	82	536829	51.985	ng	99
26) 2-Nitrophenol	7.798	139	159779	53.679	ng	99
27) 2,4-Dimethylphenol	7.834	122	273604	52.123	ng	98
28) bis(2-Chloroethoxy)met...	7.934	93	329256	51.041	ng	100
29) 2,4-Dichlorophenol	8.039	162	252244	52.840	ng	100
30) 1,2,4-Trichlorobenzene	8.128	180	269064	51.934	ng	97
31) Naphthalene	8.210	128	847571	51.109	ng	100
32) Benzoic acid	7.951	122	177379	55.512	ng	98
33) 4-Chloroaniline	8.257	127	349678	52.037	ng	99
34) Hexachlorobutadiene	8.328	225	166363	51.428	ng	98
35) Caprolactam	8.628	113	71458	53.297	ng	99
36) 4-Chloro-3-methylphenol	8.733	107	253726	51.862	ng	99
37) 2-Methylnaphthalene	8.898	142	531122	50.907	ng	100
38) 1-Methylnaphthalene	8.998	142	547258	50.711	ng	100
40) 1,2,4,5-Tetrachloroben...	9.063	216	268407	51.543	ng	99
41) Hexachlorocyclopentadiene	9.051	237	195080	55.532	ng	99
43) 2,4,6-Trichlorophenol	9.175	196	184076	52.421	ng	98

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142472.D
Acq On : 20 May 2025 14:34
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: May 20 16:55:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	198266	53.537	ng	99
46) 1,1'-Biphenyl	9.363	154	723473	51.405	ng	100
47) 2-Chloronaphthalene	9.386	162	536379	51.583	ng	100
48) 2-Nitroaniline	9.481	65	160529	53.410	ng	99
49) Acenaphthylene	9.804	152	906063	51.602	ng	100
50) Dimethylphthalate	9.663	163	619616	51.764	ng	100
51) 2,6-Dinitrotoluene	9.722	165	137090	53.064	ng	98
52) Acenaphthene	9.980	154	554762	51.742	ng	99
53) 3-Nitroaniline	9.892	138	149786	53.082	ng	99
54) 2,4-Dinitrophenol	9.998	184	76730	57.487	ng	95
55) Dibenzofuran	10.151	168	787446	51.038	ng	100
56) 4-Nitrophenol	10.045	139	114198	54.849	ng	99
57) 2,4-Dinitrotoluene	10.128	165	180417	53.473	ng	100
58) Fluorene	10.492	166	608966	51.090	ng	98
59) 2,3,4,6-Tetrachlorophenol	10.263	232	163539	52.897	ng	98
60) Diethylphthalate	10.363	149	608941	52.089	ng	99
61) 4-Chlorophenyl-phenyle...	10.480	204	296264	50.597	ng	99
62) 4-Nitroaniline	10.510	138	133141	52.024	ng	98
63) Azobenzene	10.645	77	542894	51.703	ng	100
65) 4,6-Dinitro-2-methylph...	10.533	198	97203	57.734	ng	98
66) n-Nitrosodiphenylamine	10.604	169	525974	50.960	ng	100
67) 4-Bromophenyl-phenylether	10.975	248	185711	52.061	ng	99
68) Hexachlorobenzene	11.039	284	205759	52.151	ng	100
69) Atrazine	11.127	200	147922	53.966	ng	99
70) Pentachlorophenol	11.233	266	122184	54.852	ng	99
71) Phenanthrene	11.457	178	818043	50.739	ng	100
72) Anthracene	11.510	178	837242	50.882	ng	99
73) Carbazole	11.663	167	716381	50.927	ng	100
74) Di-n-butylphthalate	11.986	149	798451	51.856	ng	100
75) Fluoranthene	12.645	202	752083	49.923	ng	100
77) Benzidine	12.763	184	301122	54.058	ng	99
78) Pyrene	12.874	202	733277	52.513	ng	100
80) Butylbenzylphthalate	13.492	149	215174	55.767	ng	97
81) Benzo(a)anthracene	14.063	228	520525	52.076	ng	99
82) 3,3'-Dichlorobenzidine	14.021	252	166223	54.828	ng	99
83) Chrysene	14.098	228	469491	52.273	ng	100
84) Bis(2-ethylhexyl)phtha...	14.051	149	286151	57.932	ng	100
85) Di-n-octyl phthalate	14.663	149	535844	55.482	ng	100
87) Indeno(1,2,3-cd)pyrene	17.080	276	679247	52.730	ng	99
88) Benzo(b)fluoranthene	15.127	252	518544	51.062	ng	99
89) Benzo(k)fluoranthene	15.157	252	505348	53.130	ng	99
90) Benzo(a)pyrene	15.504	252	508303	53.101	ng	100
91) Dibenzo(a,h)anthracene	17.104	278	553351	52.964	ng	100
92) Benzo(g,h,i)perylene	17.545	276	557271	53.328	ng	99

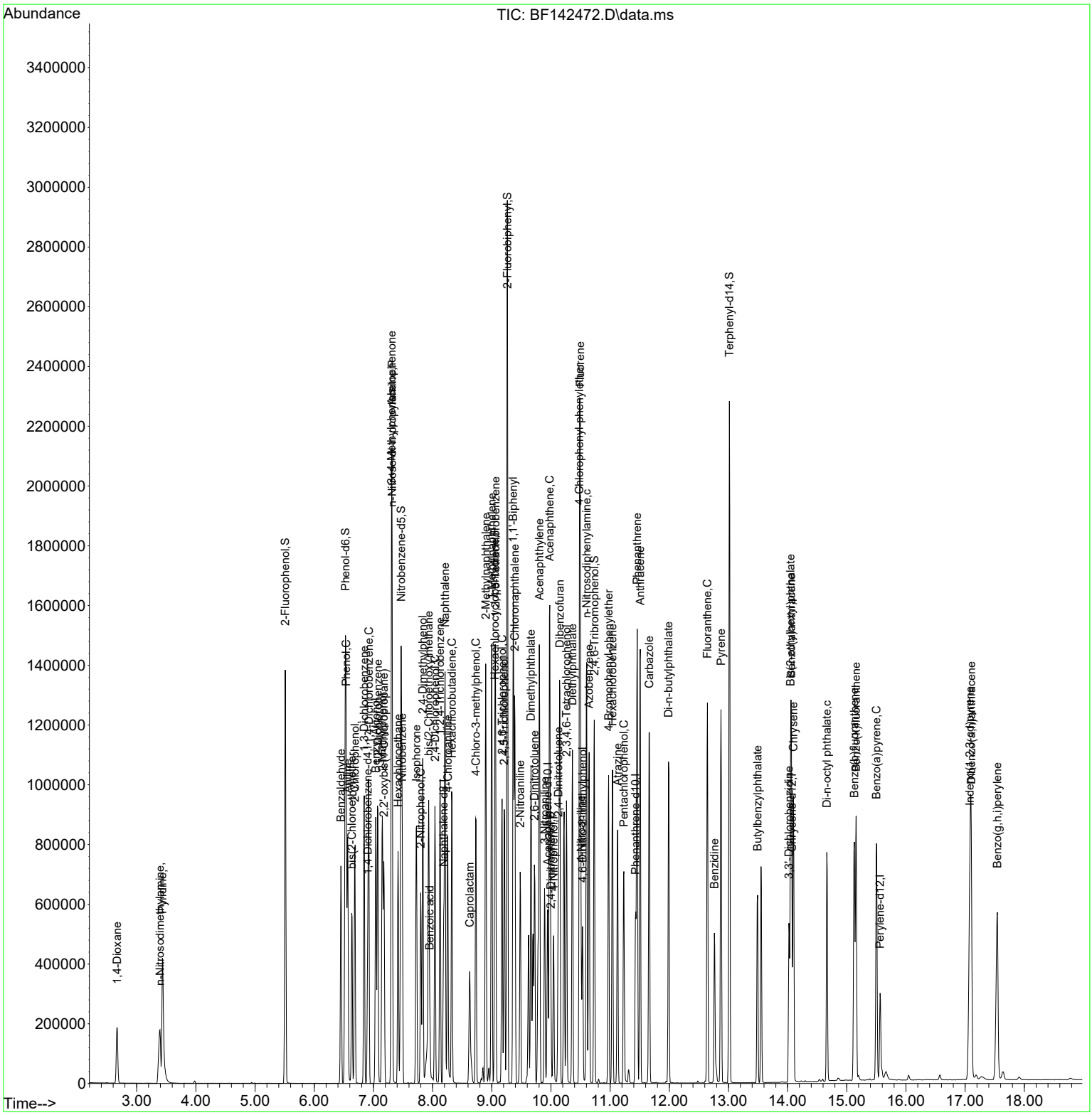
(#) = qualifier out of range (m) = manual integration (+) = signals summed

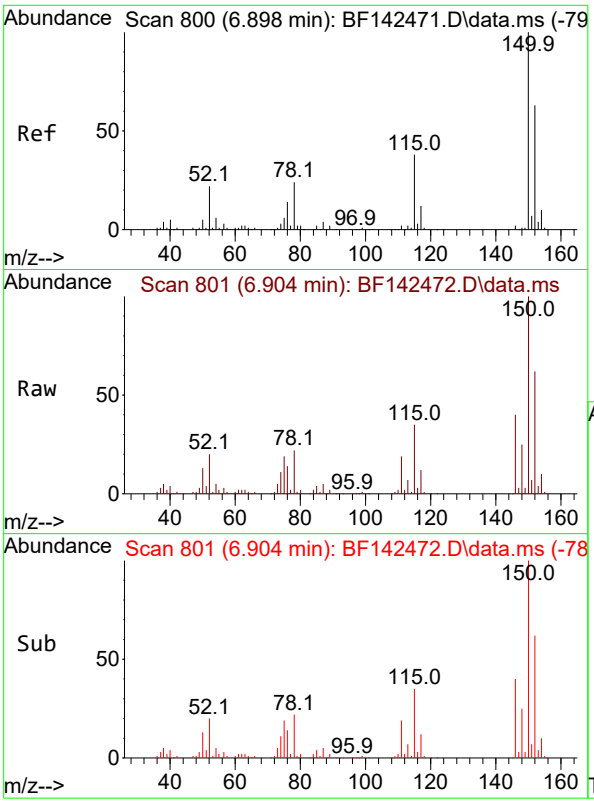
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142472.D
Acq On : 20 May 2025 14:34
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: May 20 16:55:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



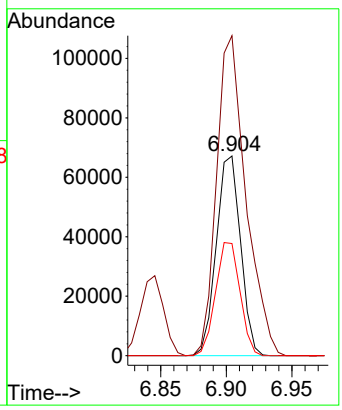


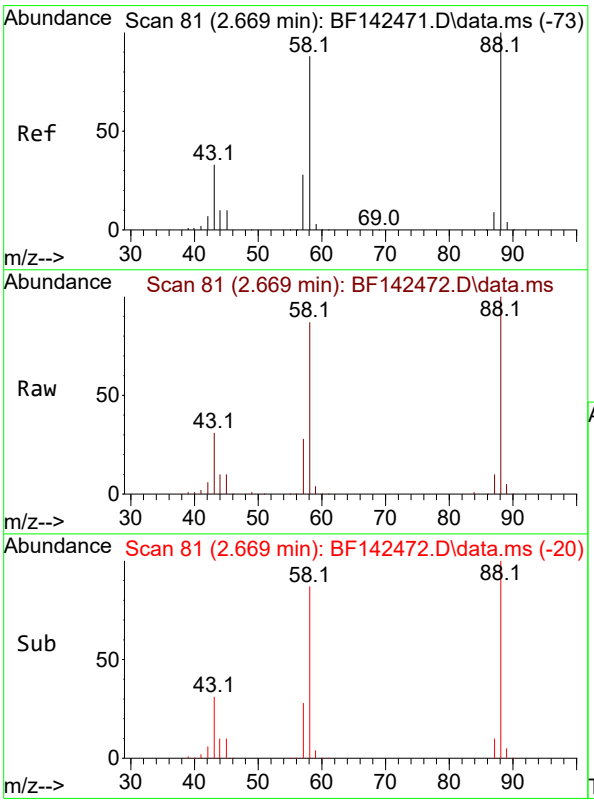
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.904 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 86396

Ion	Ratio	Lower	Upper
152	100		
150	160.3	128.2	192.4
115	56.1	48.3	72.5

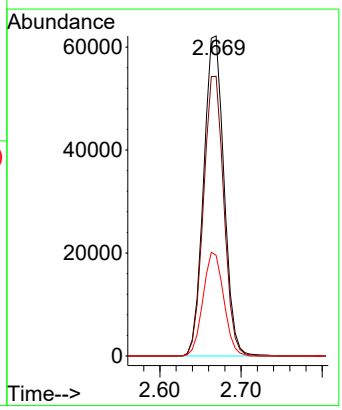


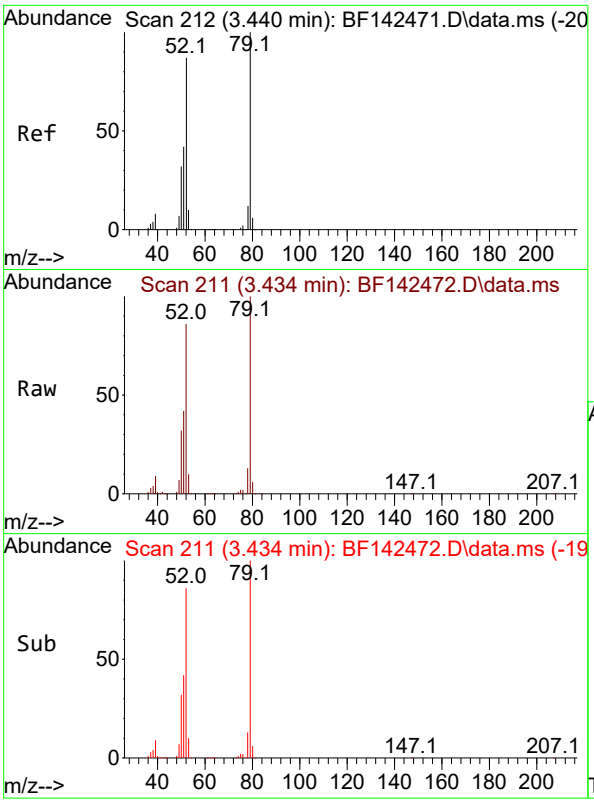


#2
1,4-Dioxane
Concen: 52.616 ng
RT: 2.669 min Scan# 81
Delta R.T. 0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion: 88 Resp: 107972

Ion	Ratio	Lower	Upper
88	100		
58	87.2	70.8	106.2
43	33.0	26.6	40.0



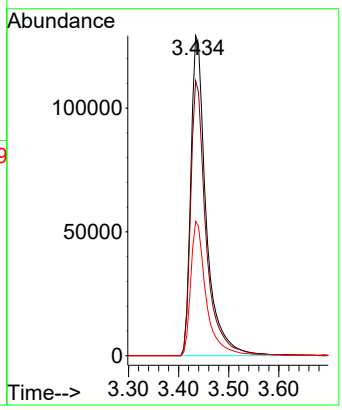


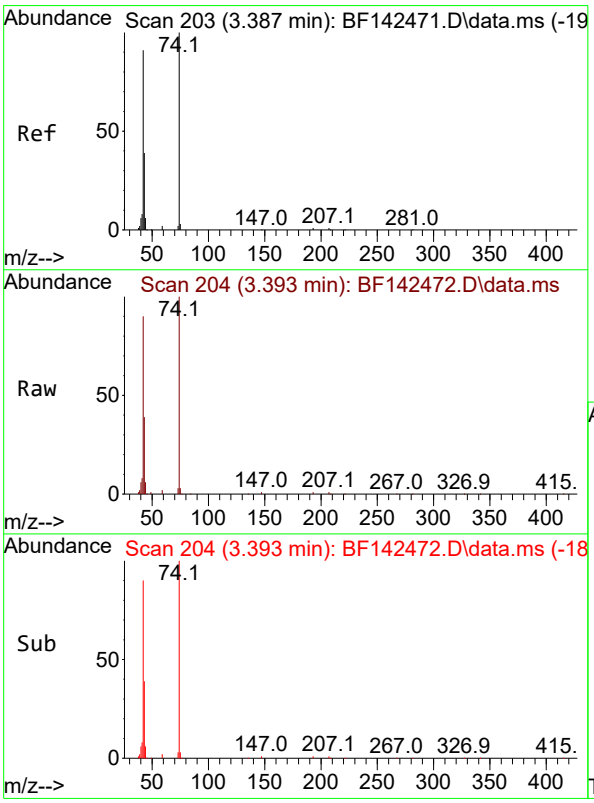
#3
Pyridine
Concen: 52.626 ng
RT: 3.434 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 275005

Ion	Ratio	Lower	Upper
79	100		
52	85.9	69.2	103.8
51	41.9	33.3	49.9

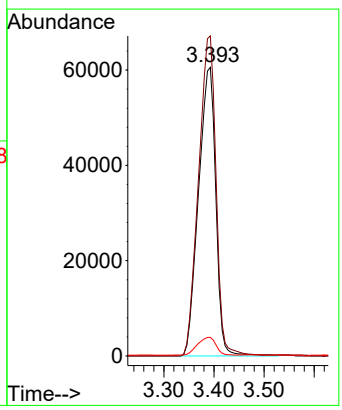


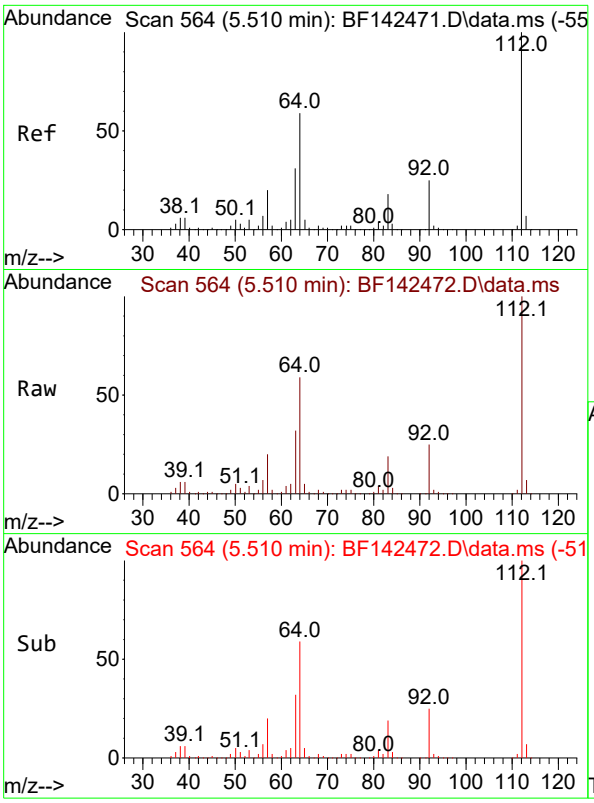


#4
n-Nitrosodimethylamine
Concen: 53.550 ng
RT: 3.393 min Scan# 204
Delta R.T. -0.012 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion: 42 Resp: 145296

Ion	Ratio	Lower	Upper
42	100		
74	110.9	88.2	132.4
44	6.4	5.4	8.2



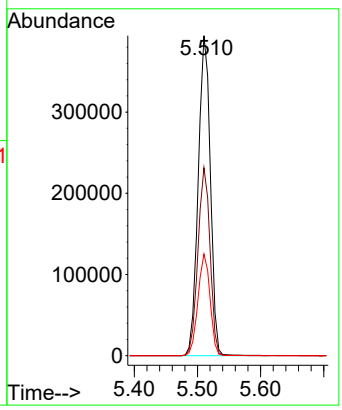


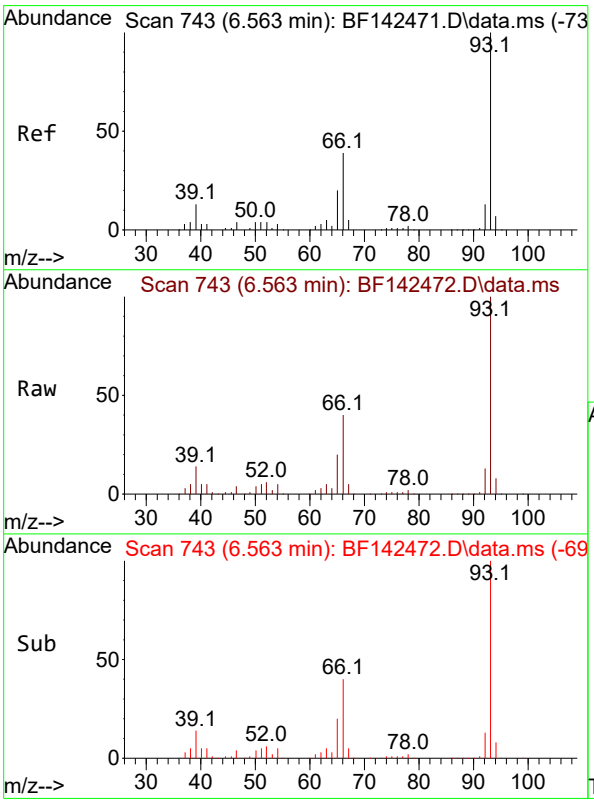
#5
2-Fluorophenol
Concen: 102.760 ng
RT: 5.510 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:112 Resp: 526965

Ion	Ratio	Lower	Upper
112	100		
64	58.8	47.5	71.3
63	31.8	24.9	37.3

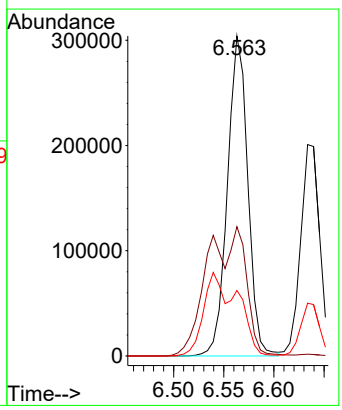


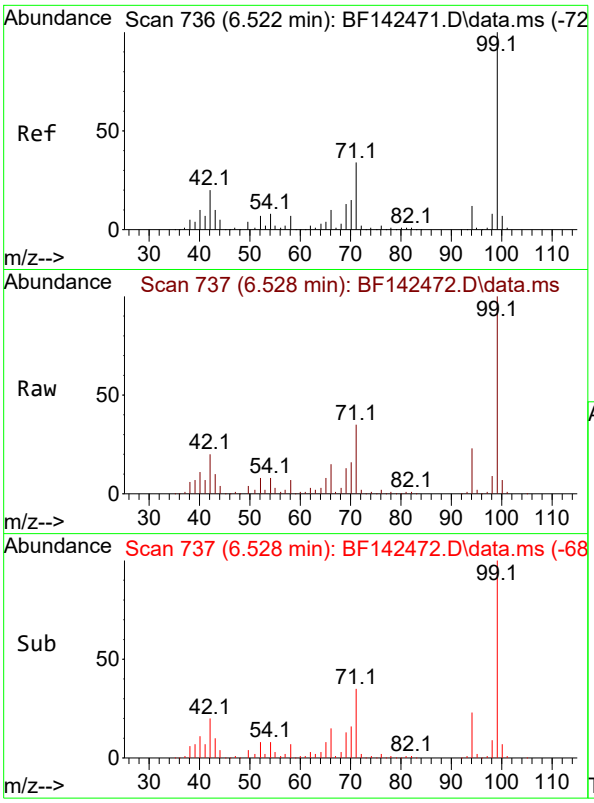


#6
Aniline
Concen: 51.852 ng
RT: 6.563 min Scan# 743
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion: 93 Resp: 430377

Ion	Ratio	Lower	Upper
93	100		
66	40.4	32.0	48.0
65	20.4	16.1	24.1



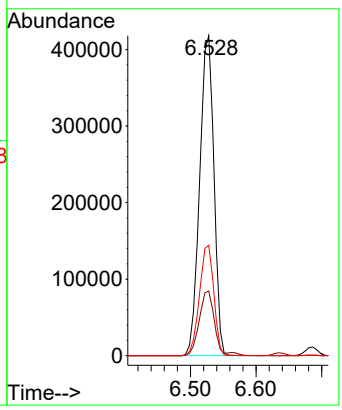


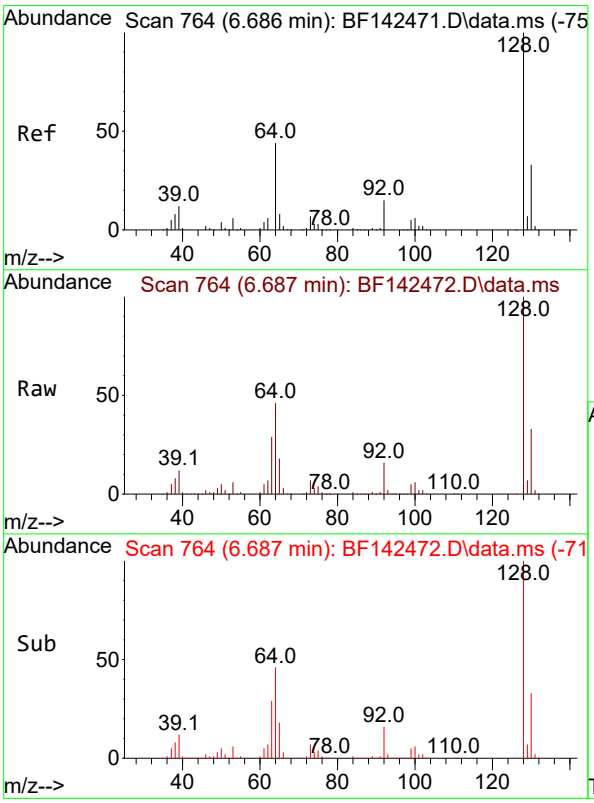
#7
Phenol-d6
Concen: 102.679 ng
RT: 6.528 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 99 Resp: 633841

Ion	Ratio	Lower	Upper
99	100		
42	20.2	16.2	24.2
71	34.5	27.3	40.9

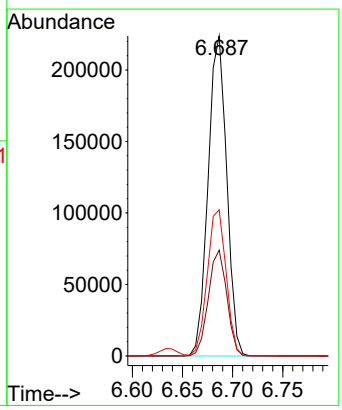


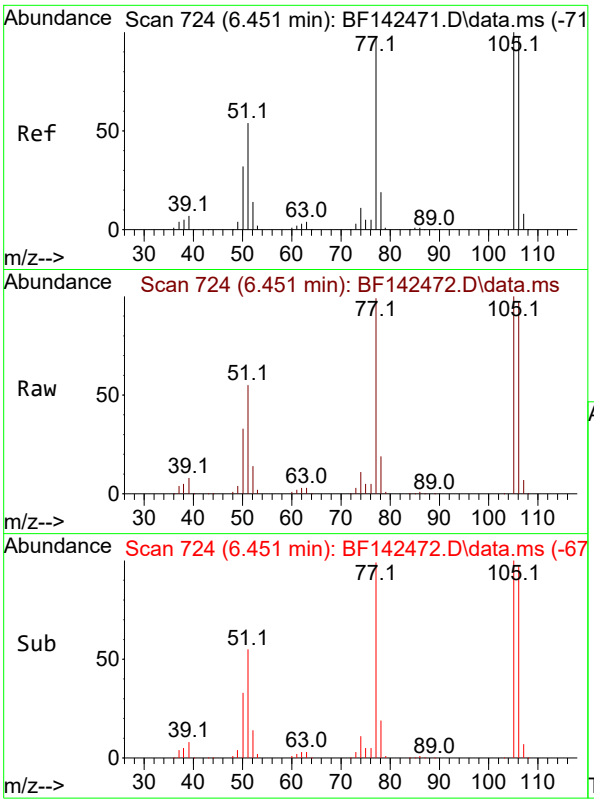


#8
2-Chlorophenol
Concen: 51.731 ng
RT: 6.687 min Scan# 764
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:128 Resp: 288948

Ion	Ratio	Lower	Upper
128	100		
130	33.1	12.6	52.6
64	45.7	25.1	65.1



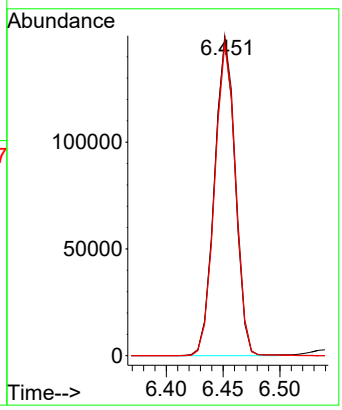


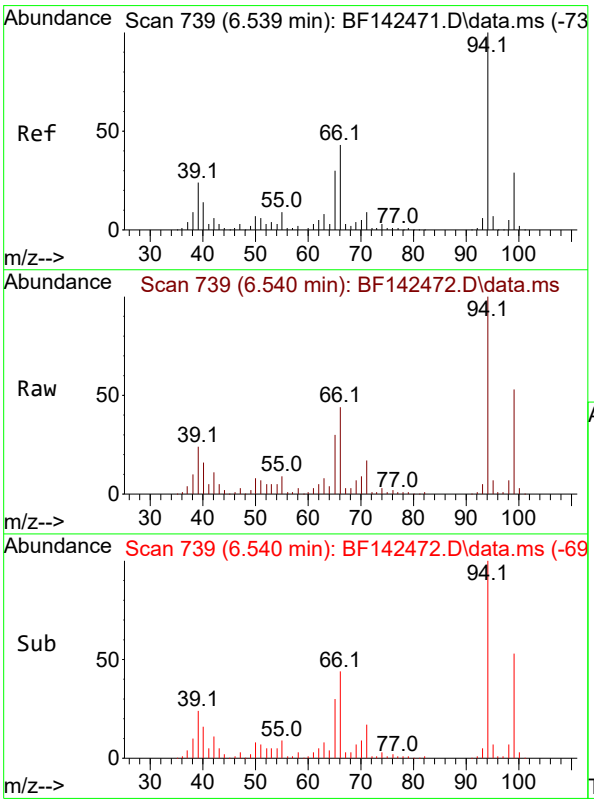
#9
Benzaldehyde
Concen: 50.700 ng
RT: 6.451 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 188241

Ion	Ratio	Lower	Upper
77	100		
105	100.9	82.5	122.5
106	98.0	80.0	120.0

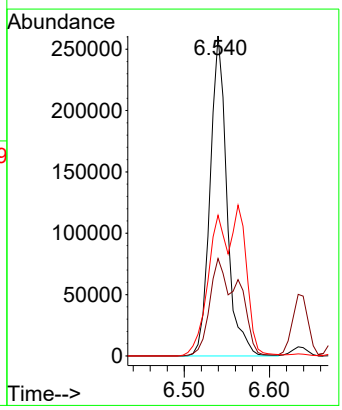


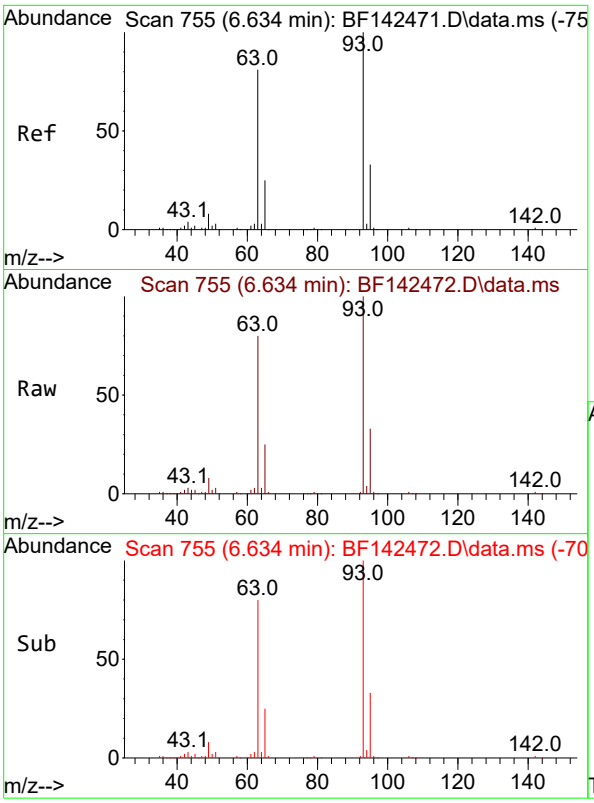


#10
Phenol
Concen: 51.526 ng
RT: 6.540 min Scan# 739
Delta R.T. -0.012 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion: 94 Resp: 357896

Ion	Ratio	Lower	Upper
94	100		
65	30.4	10.3	50.3
66	44.0	22.6	62.6



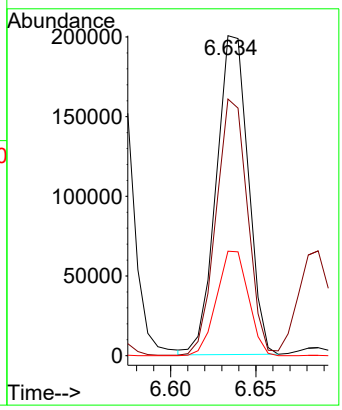


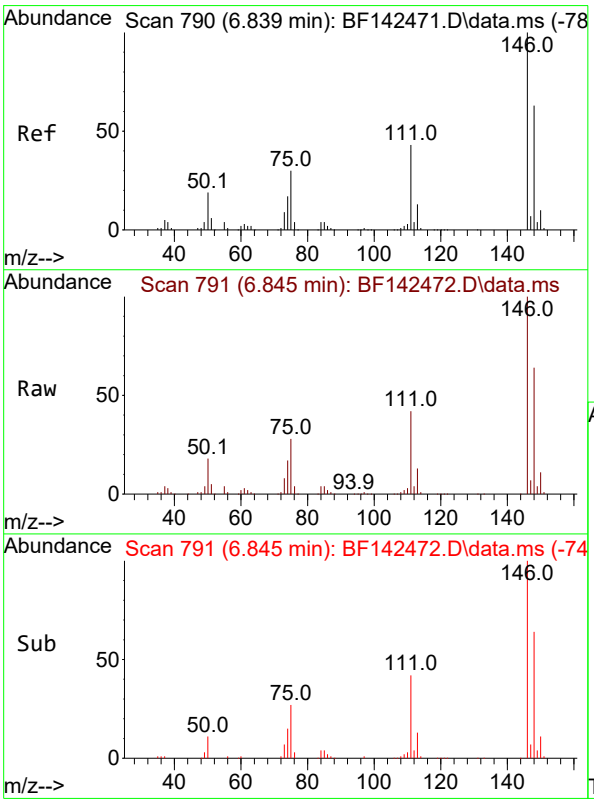
#11
bis(2-Chloroethyl)ether
Concen: 52.210 ng
RT: 6.634 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 93 Resp: 261046

Ion	Ratio	Lower	Upper
93	100		
63	80.2	60.2	100.2
95	32.7	12.3	52.3

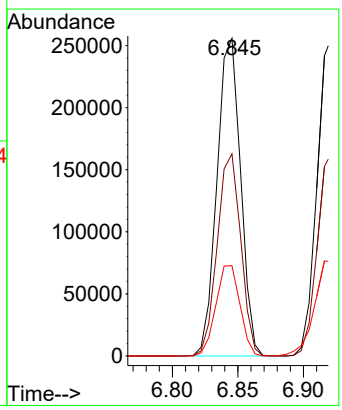


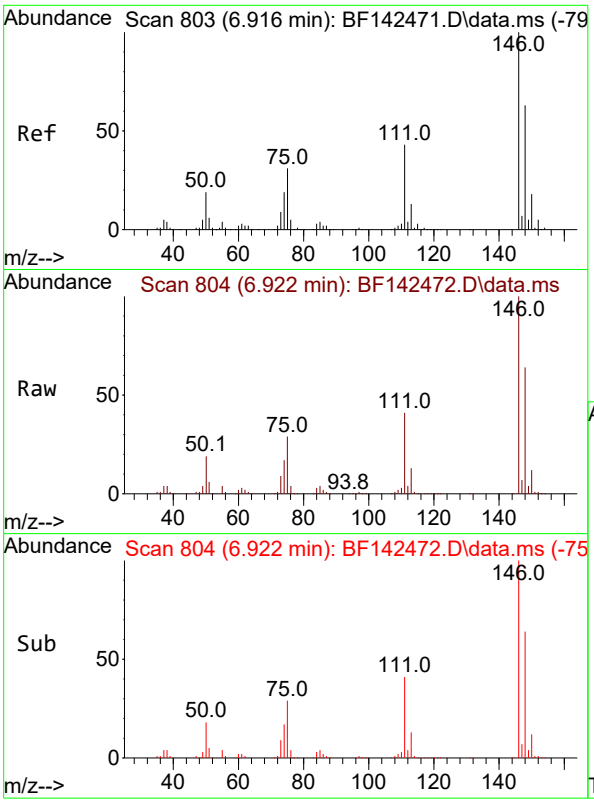


#12
1,3-Dichlorobenzene
Concen: 51.357 ng
RT: 6.845 min Scan# 791
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:146 Resp: 320095

Ion	Ratio	Lower	Upper
146	100		
148	63.6	50.6	75.8
75	28.4	23.8	35.6



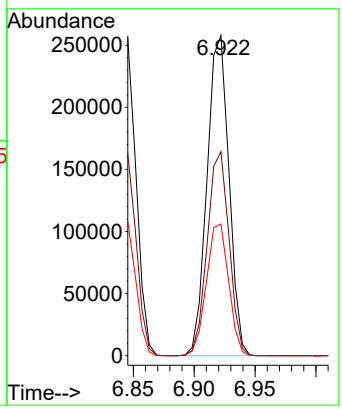


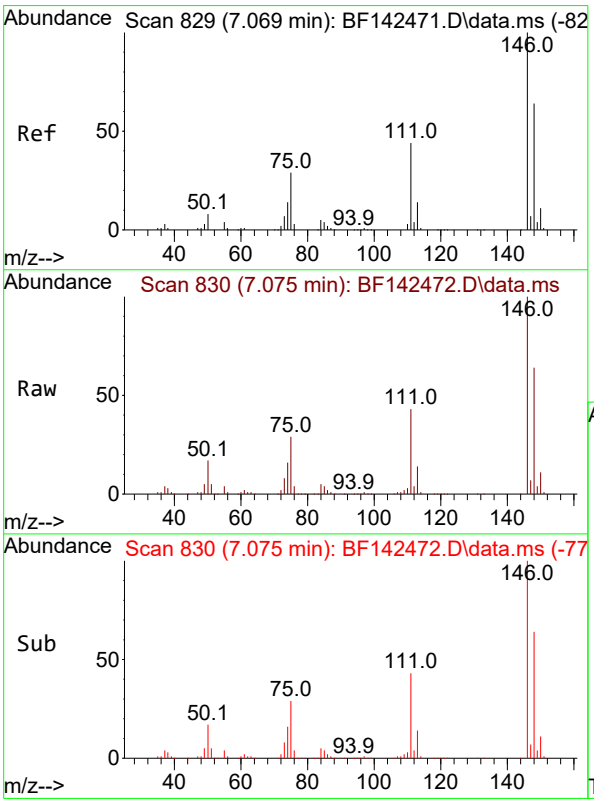
#13
1,4-Dichlorobenzene
Concen: 51.427 ng
RT: 6.922 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:146 Resp: 322871

Ion	Ratio	Lower	Upper
146	100		
148	63.7	50.4	75.6
111	41.1	34.1	51.1

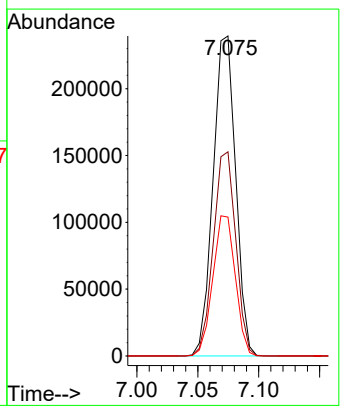


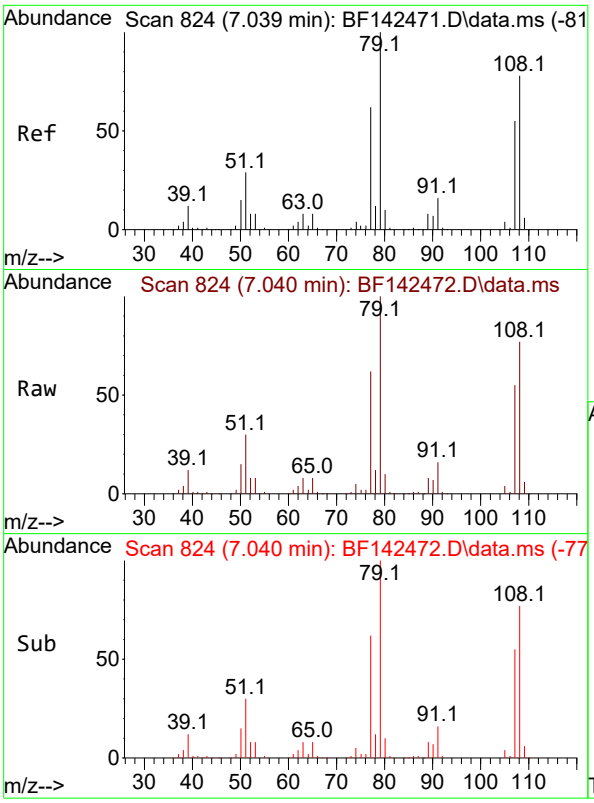


#14
1,2-Dichlorobenzene
Concen: 51.491 ng
RT: 7.075 min Scan# 830
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:146 Resp: 309332

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.0	76.4
111	43.4	35.0	52.6



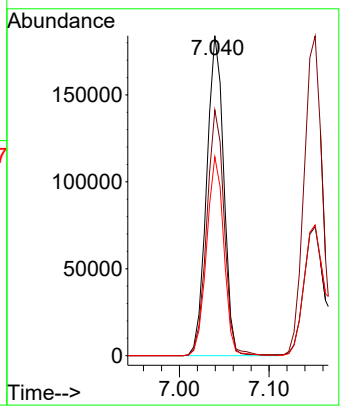


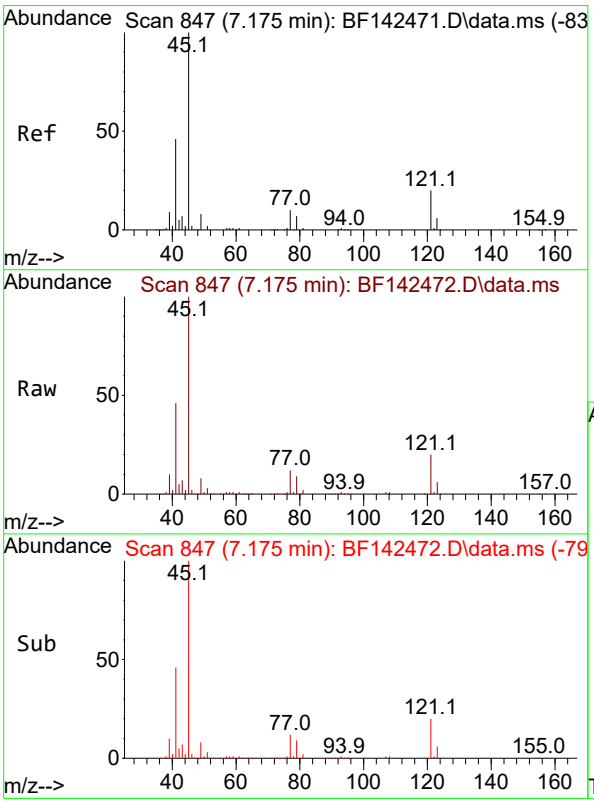
#15
Benzyl Alcohol
Concen: 53.559 ng
RT: 7.040 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 244326

Ion	Ratio	Lower	Upper
79	100		
108	76.8	62.1	93.1
77	62.1	49.5	74.3

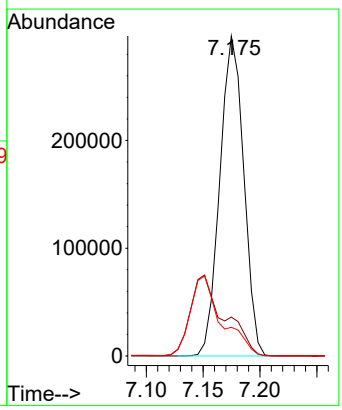


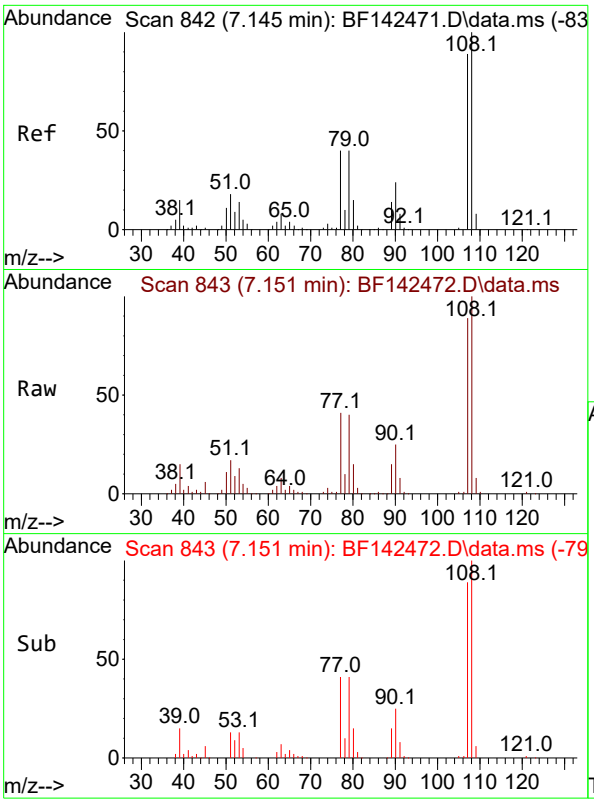


#16
2,2'-oxybis(1-Chloropropane)
Concen: 51.741 ng
RT: 7.175 min Scan# 847
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion: 45 Resp: 434451

Ion	Ratio	Lower	Upper
45	100		
77	12.1	0.0	32.0
79	9.0	0.0	29.2



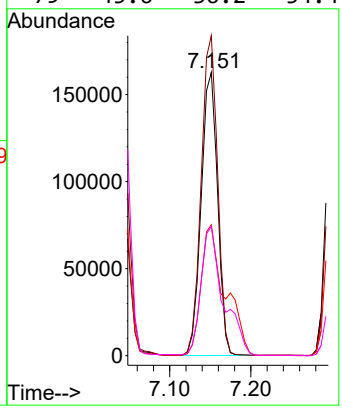


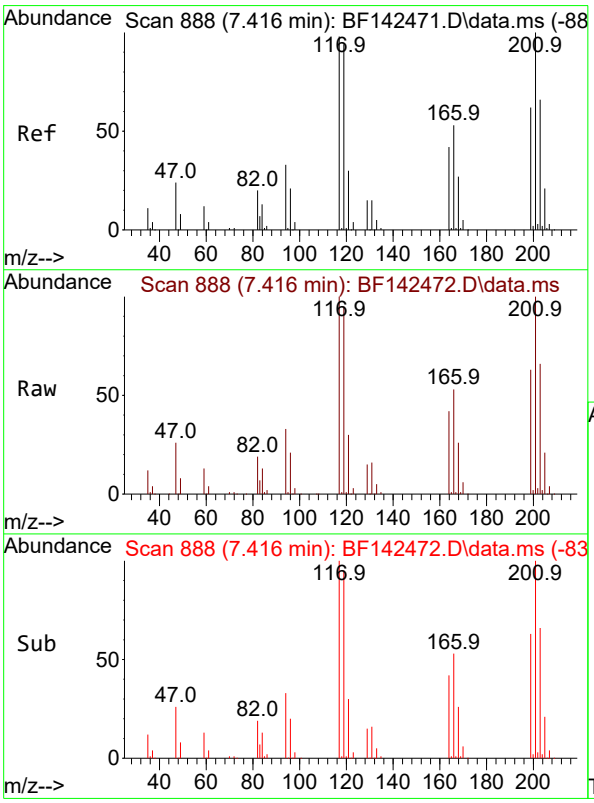
#17
2-Methylphenol
Concen: 52.141 ng
RT: 7.151 min Scan# 84
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:107 Resp: 227385

Ion	Ratio	Lower	Upper
107	100		
108	112.9	90.2	135.2
77	46.2	36.1	54.1
79	45.6	36.2	54.4

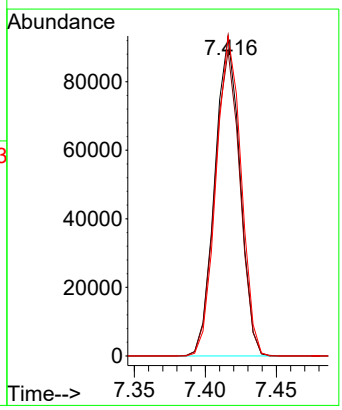


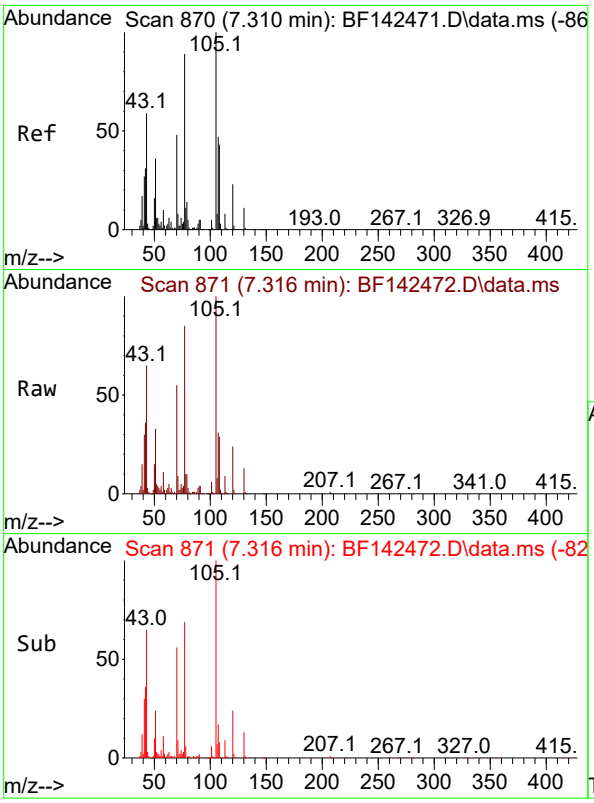


#18
Hexachloroethane
Concen: 52.159 ng
RT: 7.416 min Scan# 888
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:117 Resp: 114346

Ion	Ratio	Lower	Upper
117	100		
119	95.3	76.6	114.8
201	100.0	81.3	121.9



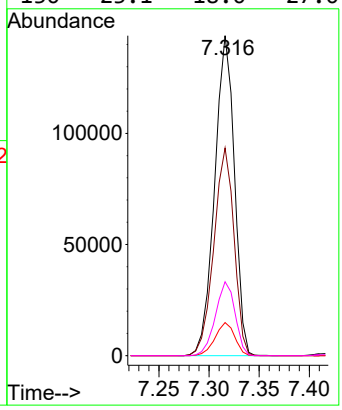


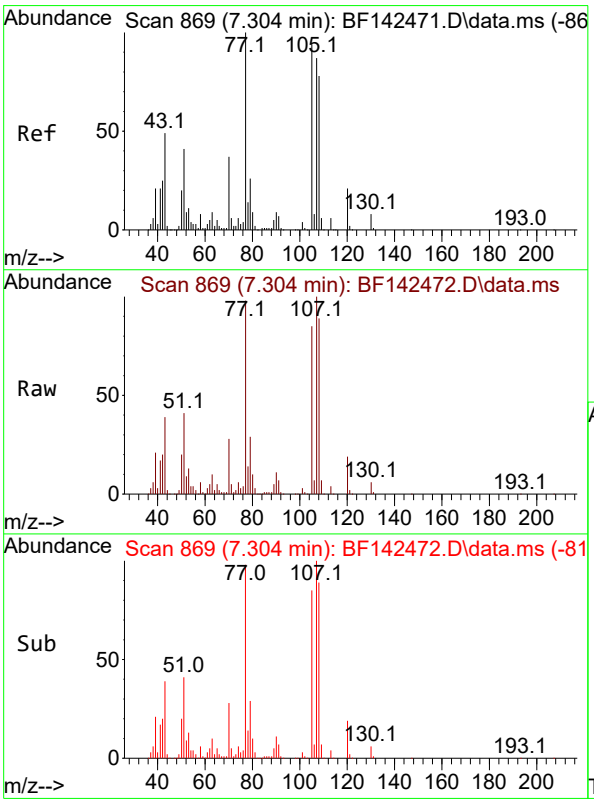
#19
n-Nitroso-di-n-propylamine
Concen: 51.498 ng
RT: 7.316 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 70 Resp: 197020

Ion	Ratio	Lower	Upper
70	100		
42	64.9	52.4	78.6
101	10.4	7.8	11.8
130	23.1	18.0	27.0

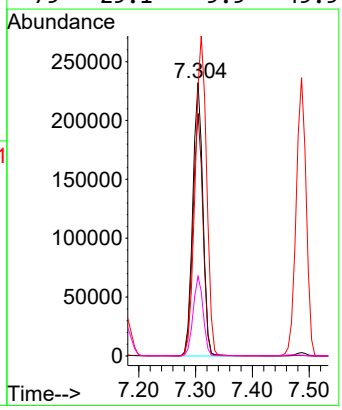


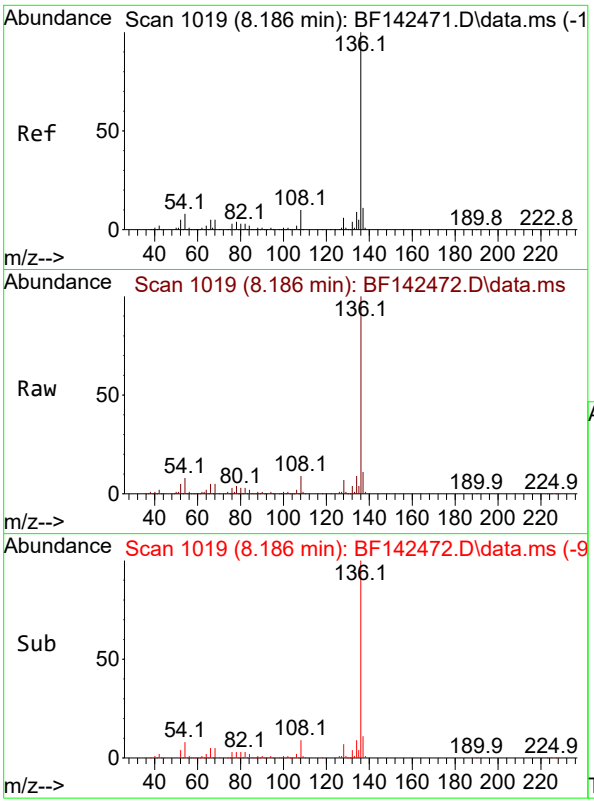


#20
3+4-Methylphenols
Concen: 51.719 ng
RT: 7.304 min Scan# 869
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:107 Resp: 288829

Ion	Ratio	Lower	Upper
107	100		
108	88.8	70.4	110.4
77	98.4	95.4	135.4
79	29.1	9.9	49.9



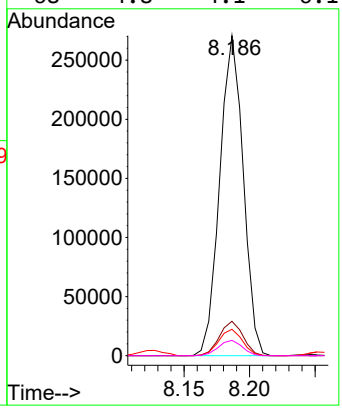


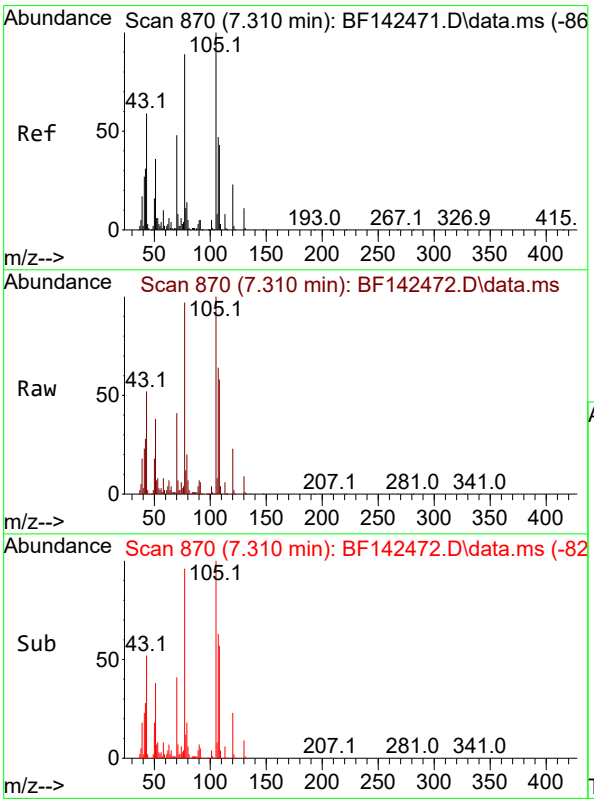
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:136 Resp: 336796

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.2	6.6	10.0
68	4.8	4.1	6.1

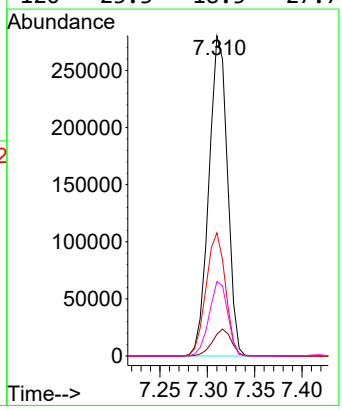


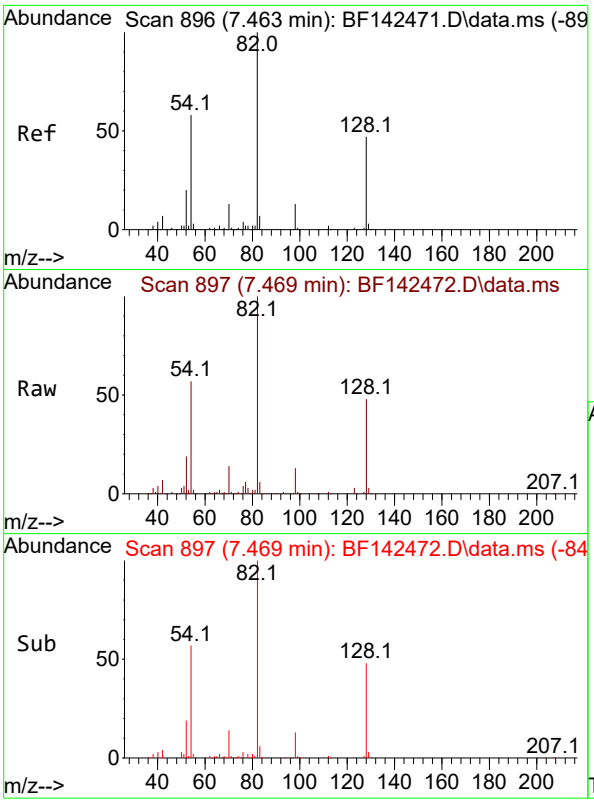


#22
Acetophenone
Concen: 50.992 ng
RT: 7.310 min Scan# 870
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:105 Resp: 380175

Ion	Ratio	Lower	Upper
105	100		
71	6.8	6.4	9.6
51	38.5	28.6	42.8
120	23.3	18.5	27.7



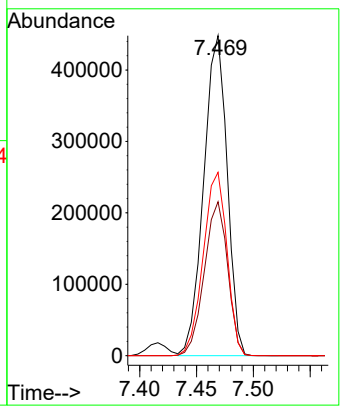


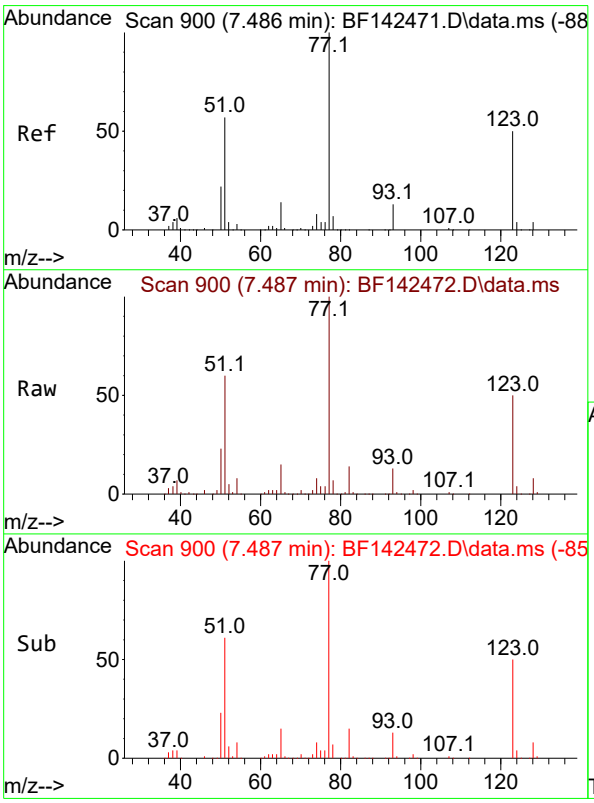
#23
Nitrobenzene-d5
Concen: 104.135 ng
RT: 7.469 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 643186

Ion	Ratio	Lower	Upper
82	100		
128	48.1	37.4	56.2
54	57.3	46.6	70.0

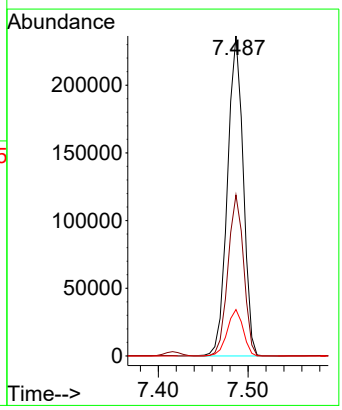


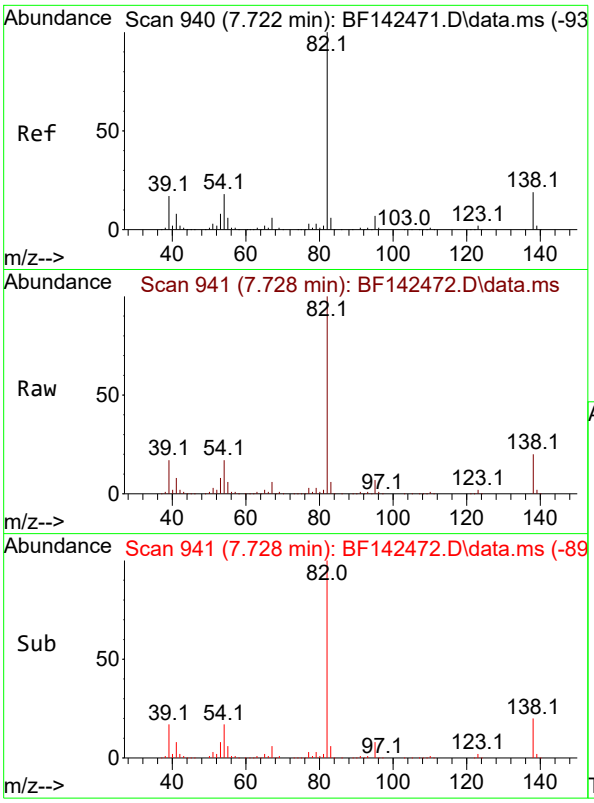


#24
Nitrobenzene
Concen: 51.834 ng
RT: 7.487 min Scan# 900
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion: 77 Resp: 288748

Ion	Ratio	Lower	Upper
77	100		
123	50.3	40.6	61.0
65	14.5	11.4	17.2



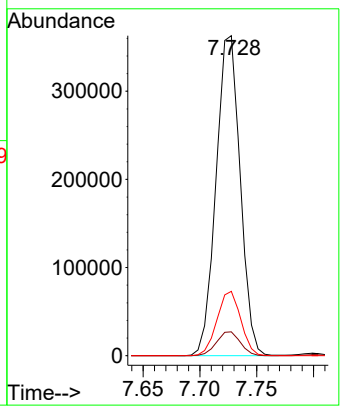


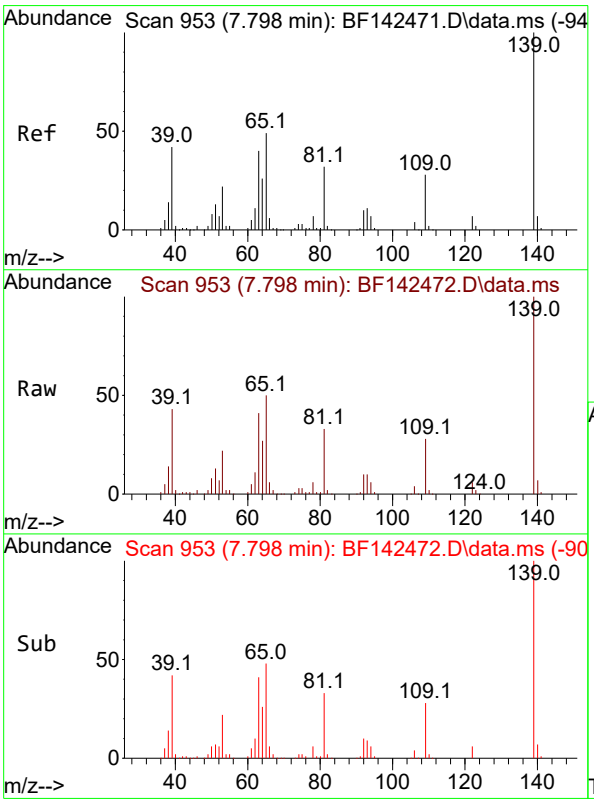
#25
Isophorone
Concen: 51.985 ng
RT: 7.728 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 536829

Ion	Ratio	Lower	Upper
82	100		
95	7.5	6.0	9.0
138	20.1	15.5	23.3

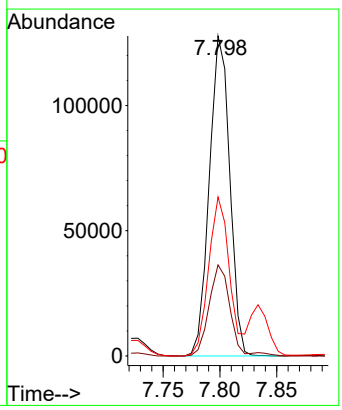


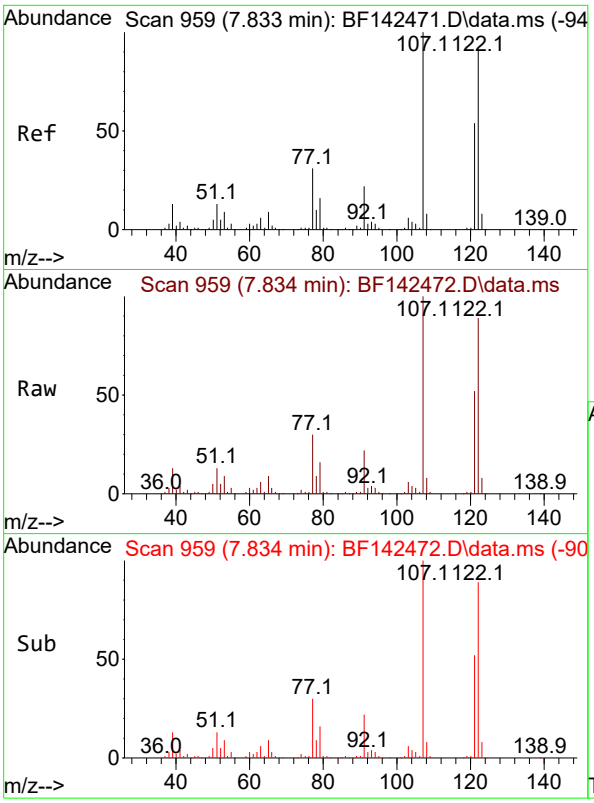


#26
2-Nitrophenol
Concen: 53.679 ng
RT: 7.798 min Scan# 953
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:139 Resp: 159779

Ion	Ratio	Lower	Upper
139	100		
109	28.4	22.6	33.8
65	49.6	39.4	59.0



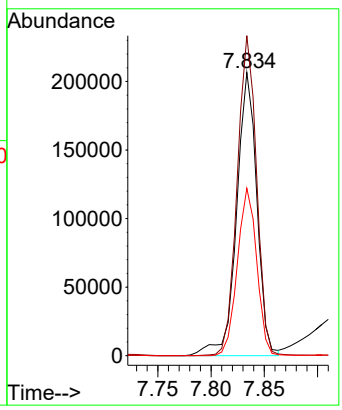


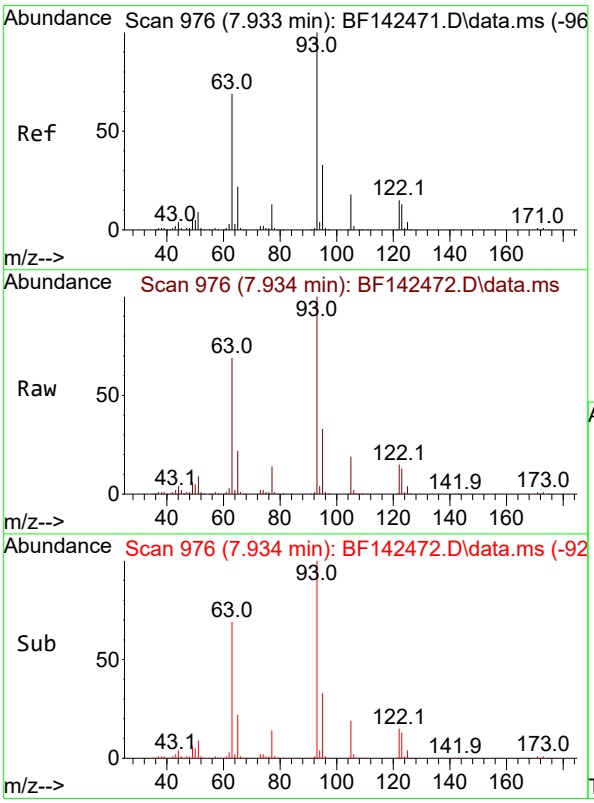
#27
2,4-Dimethylphenol
Concen: 52.123 ng
RT: 7.834 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:122 Resp: 273604

Ion	Ratio	Lower	Upper
122	100		
107	113.0	88.1	132.1
121	59.1	47.3	70.9

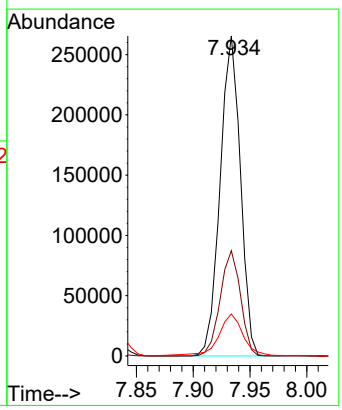


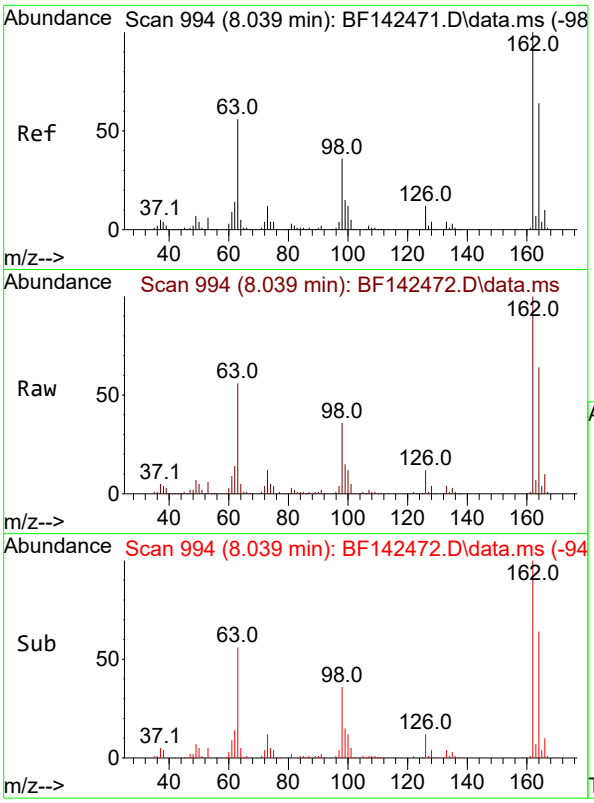


#28
bis(2-Chloroethoxy)methane
Concen: 51.041 ng
RT: 7.934 min Scan# 976
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion: 93 Resp: 329256

Ion	Ratio	Lower	Upper
93	100		
95	32.9	26.4	39.6
123	13.1	10.6	15.8



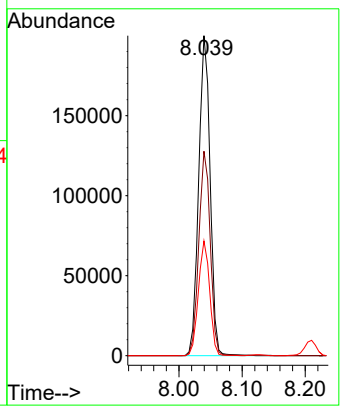


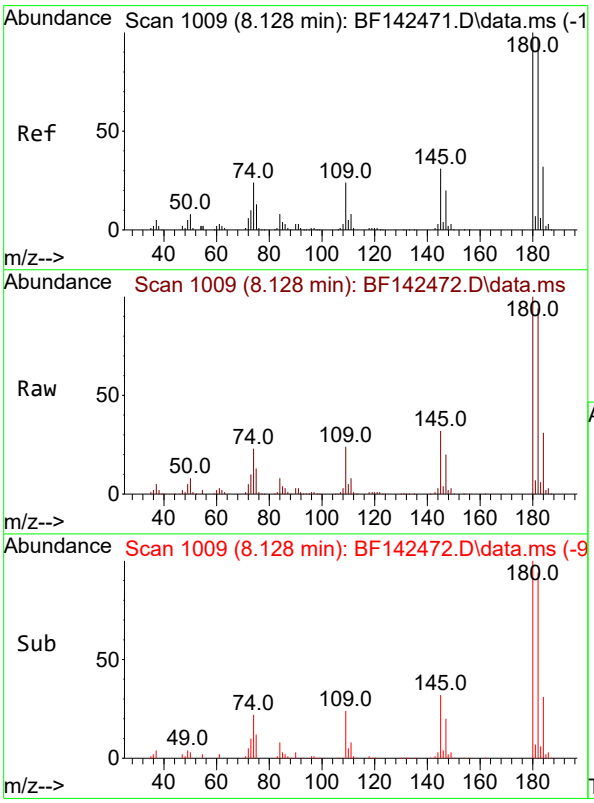
#29
2,4-Dichlorophenol
Concen: 52.840 ng
RT: 8.039 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 252244

Ion	Ratio	Lower	Upper
162	100		
164	63.9	43.7	83.7
98	35.9	15.5	55.5

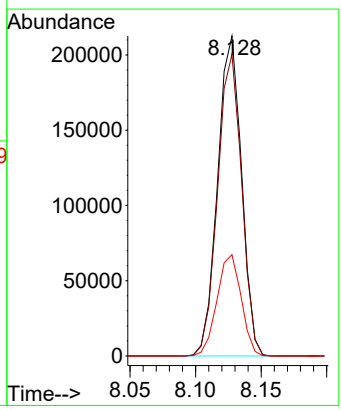


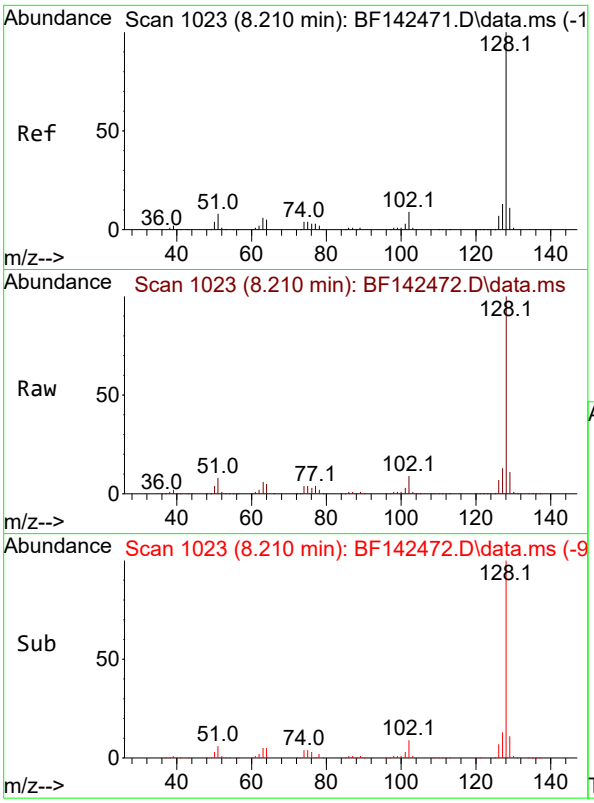


#30
1,2,4-Trichlorobenzene
Concen: 51.934 ng
RT: 8.128 min Scan# 1009
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:180 Resp: 269064

Ion	Ratio	Lower	Upper
180	100		
182	94.3	78.0	117.0
145	31.7	25.0	37.6



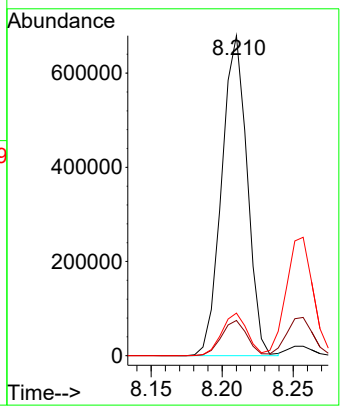


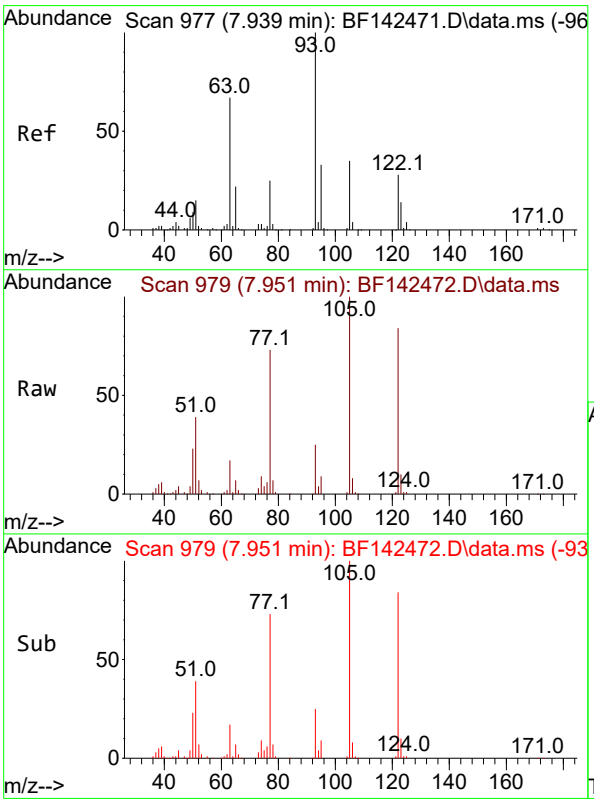
#31
Naphthalene
Concen: 51.109 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:128 Resp: 847571

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.9	13.3
127	13.3	10.5	15.7

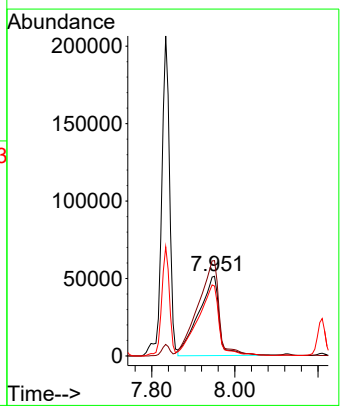


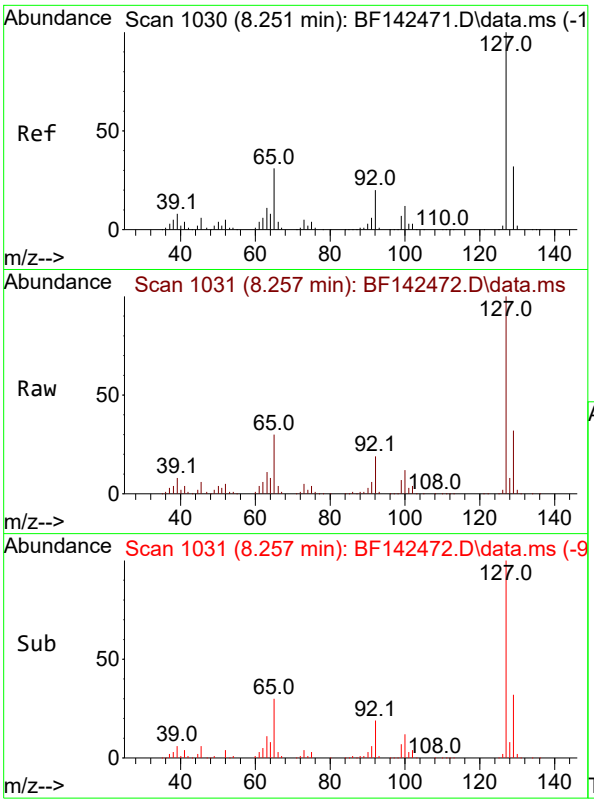


#32
Benzoic acid
Concen: 55.512 ng
RT: 7.951 min Scan# 979
Delta R.T. -0.024 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:122 Resp: 177379

Ion	Ratio	Lower	Upper
122	100		
105	119.5	101.7	141.7
77	87.7	69.5	109.5



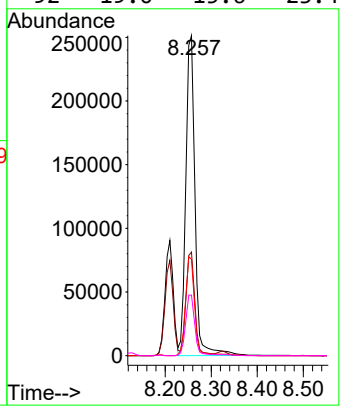


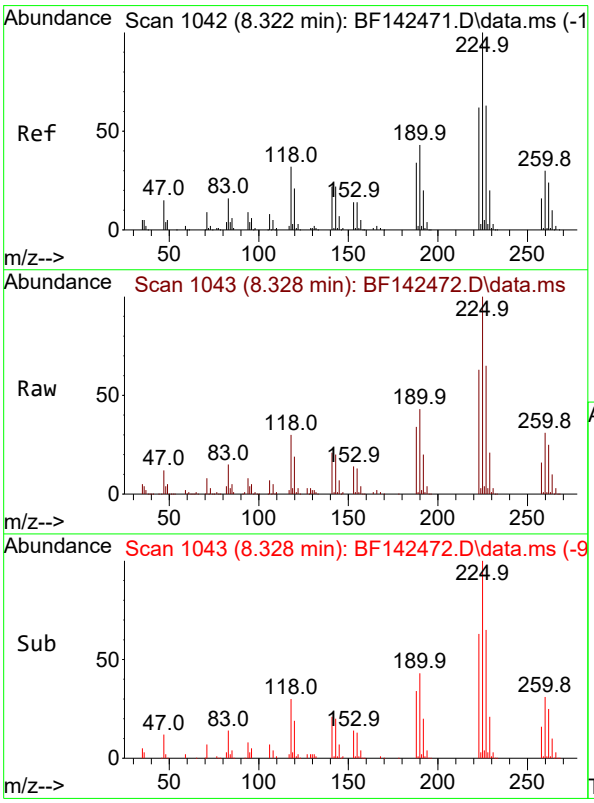
#33
4-Chloroaniline
Concen: 52.037 ng
RT: 8.257 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:127 Resp: 349678

Ion	Ratio	Lower	Upper
127	100		
129	32.4	26.1	39.1
65	30.2	24.9	37.3
92	19.0	15.6	23.4

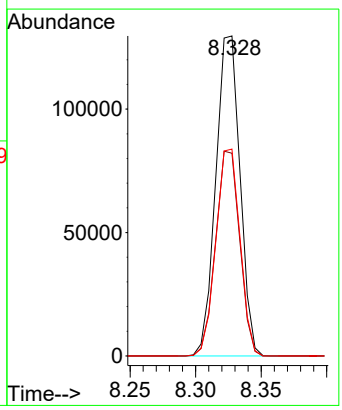


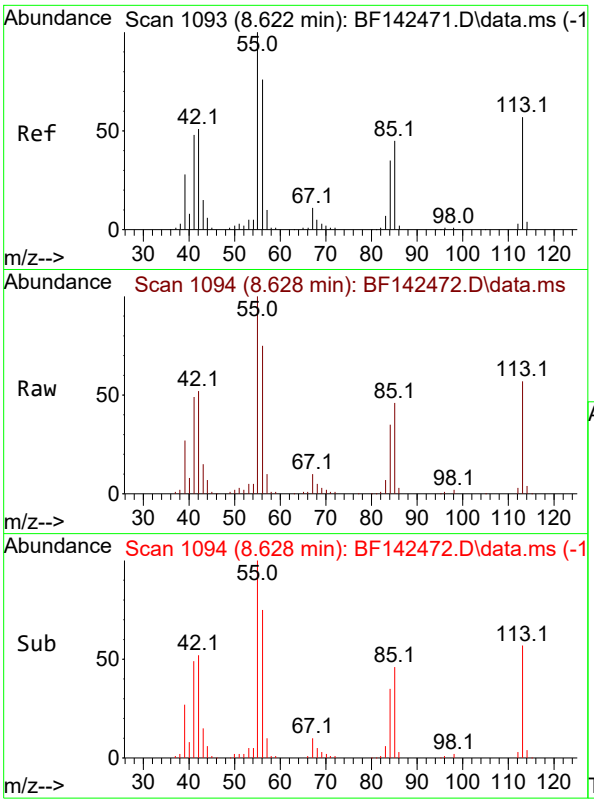


#34
Hexachlorobutadiene
Concen: 51.428 ng
RT: 8.328 min Scan# 1043
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:225 Resp: 166363

Ion	Ratio	Lower	Upper
225	100		
223	63.3	49.7	74.5
227	64.6	50.3	75.5



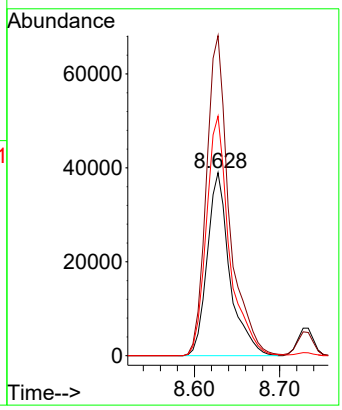


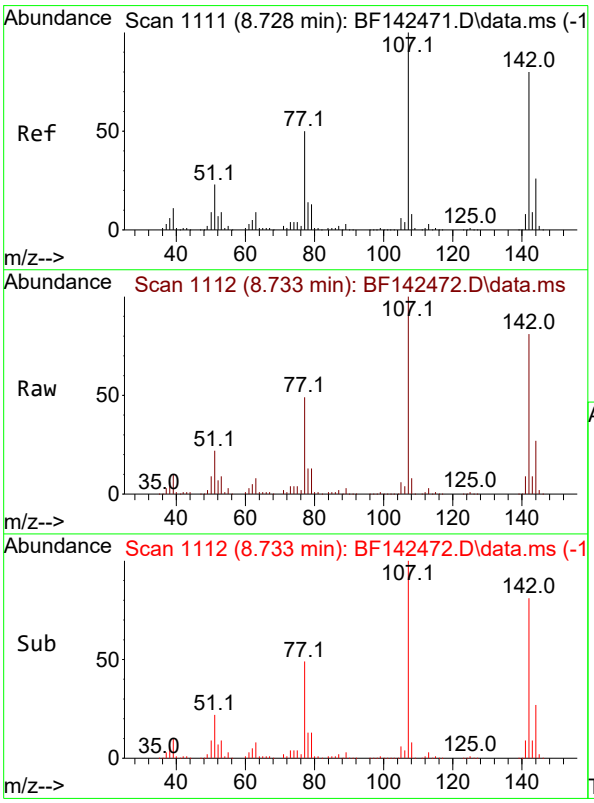
#35
Caprolactam
Concen: 53.297 ng
RT: 8.628 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:113 Resp: 71458

Ion	Ratio	Lower	Upper
113	100		
55	174.8	154.7	194.7
56	130.8	113.2	153.2

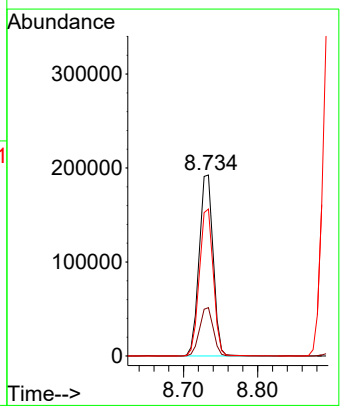


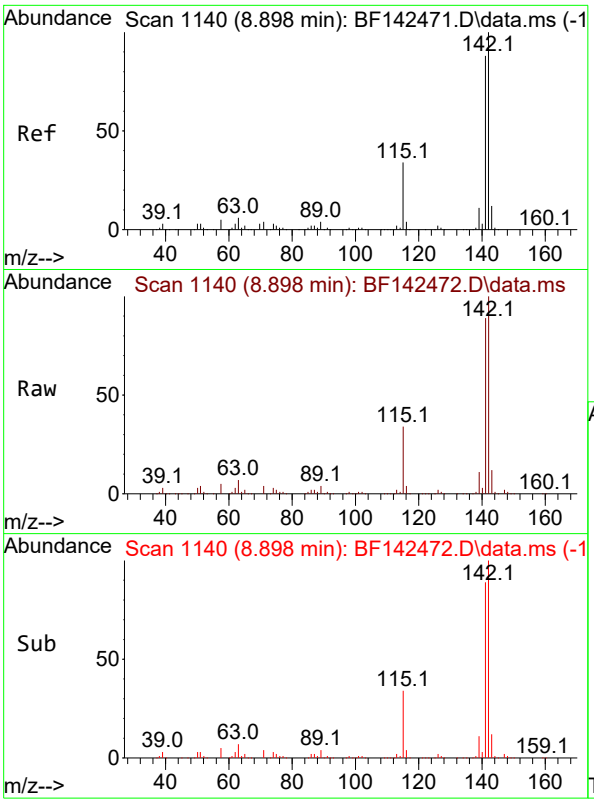


#36
4-Chloro-3-methylphenol
Concen: 51.862 ng
RT: 8.733 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:107 Resp: 253726

Ion	Ratio	Lower	Upper
107	100		
144	26.7	20.9	31.3
142	81.2	64.2	96.2



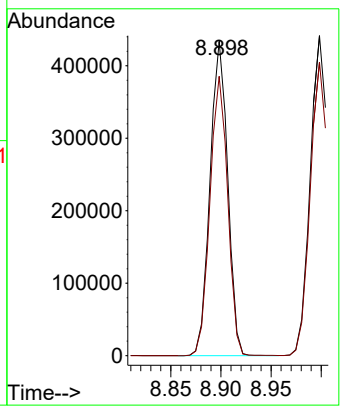


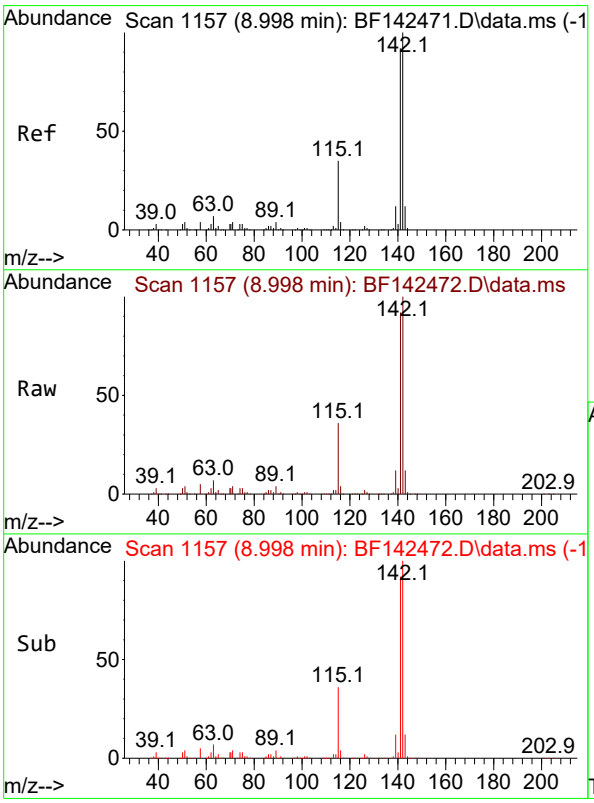
#37
2-Methylnaphthalene
Concen: 50.907 ng
RT: 8.898 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:142 Resp: 531122

Ion	Ratio	Lower	Upper
142	100		
141	88.8	70.7	106.1

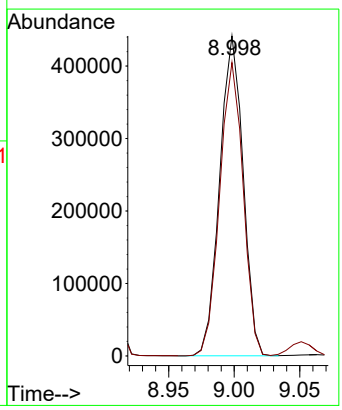


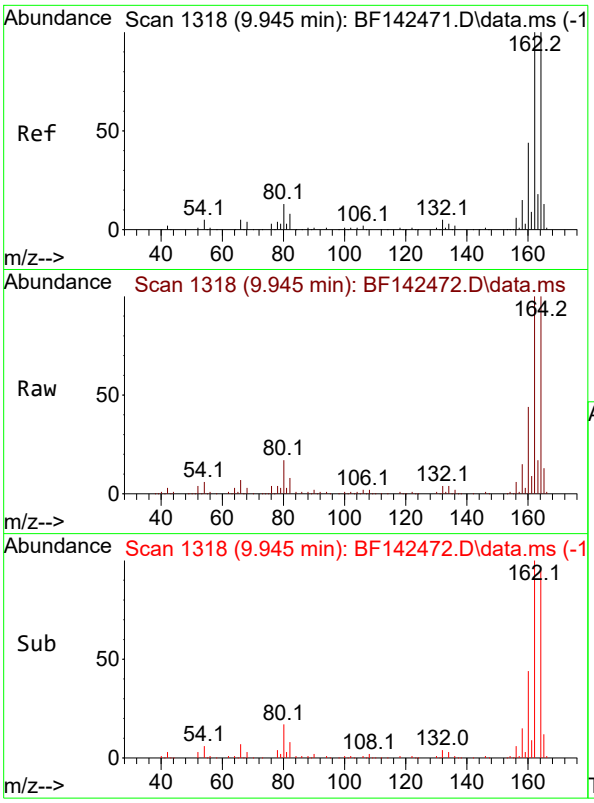


#38
1-Methylnaphthalene
Concen: 50.711 ng
RT: 8.998 min Scan# 1157
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:142 Resp: 547258

Ion	Ratio	Lower	Upper
142	100		
141	91.7	73.4	110.2



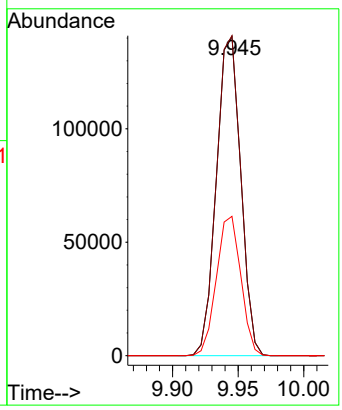


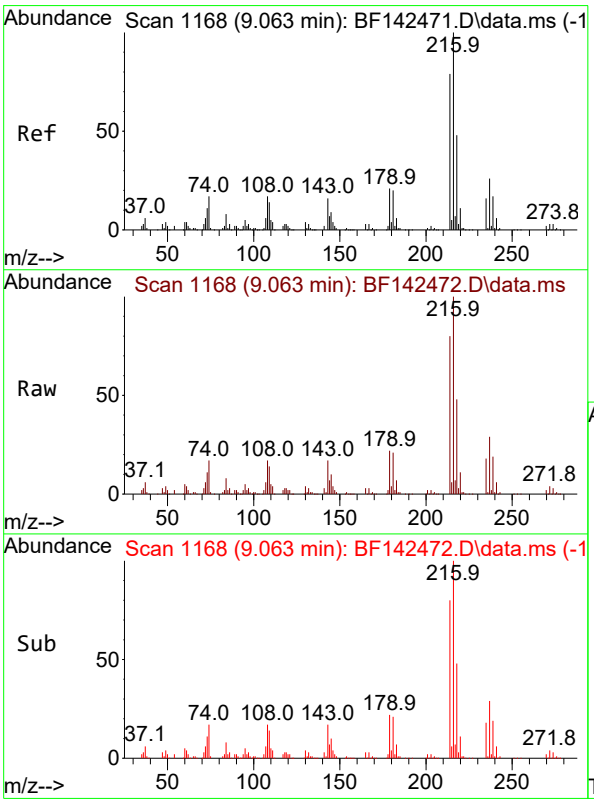
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:164 Resp: 181409

Ion	Ratio	Lower	Upper
164	100		
162	100.3	80.2	120.4
160	43.7	35.6	53.4

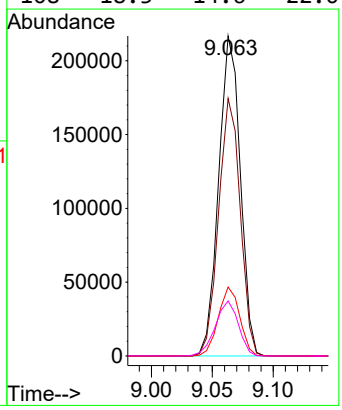


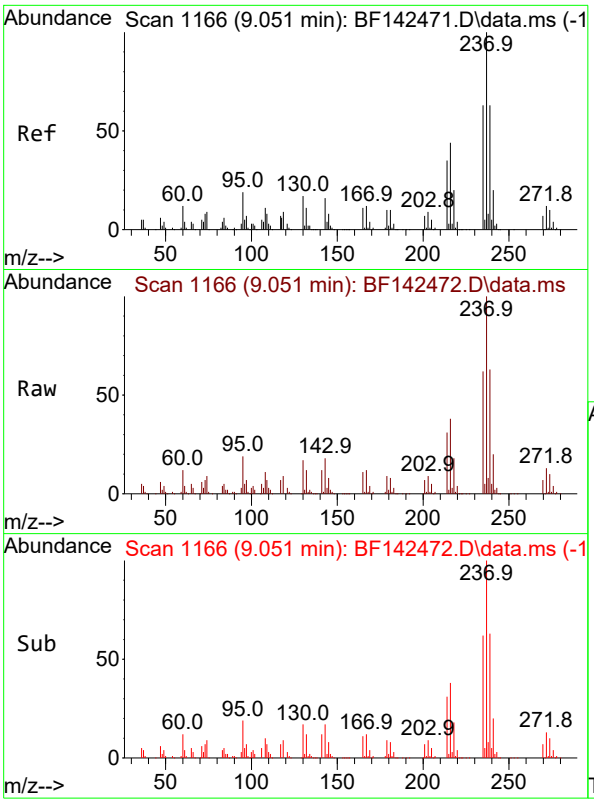


#40
1,2,4,5-Tetrachlorobenzene
Concen: 51.543 ng
RT: 9.063 min Scan# 1168
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:216 Resp: 268407

Ion	Ratio	Lower	Upper
216	100		
214	80.3	62.9	94.3
179	21.3	16.9	25.3
108	18.3	14.6	22.0



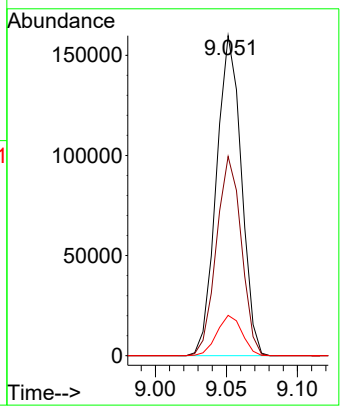


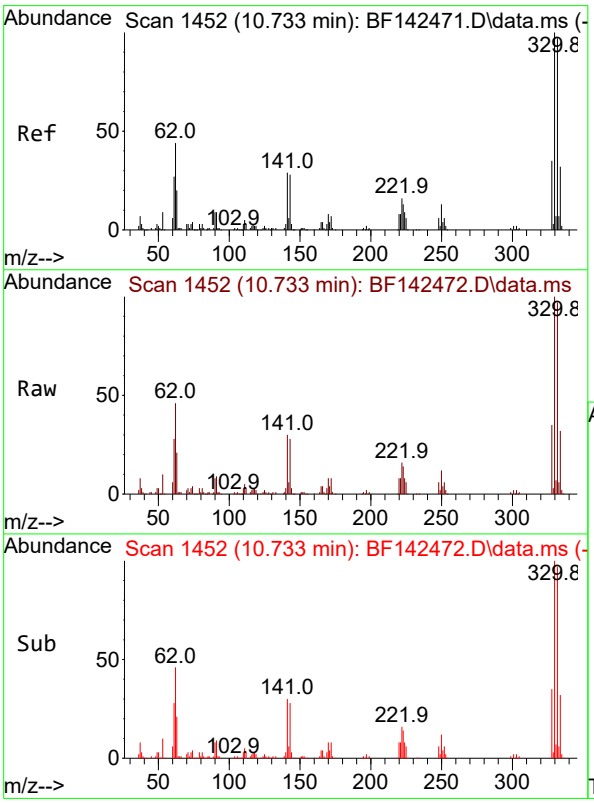
#41
Hexachlorocyclopentadiene
Concen: 55.532 ng
RT: 9.051 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:237 Resp: 195080

Ion	Ratio	Lower	Upper
237	100		
235	62.3	43.3	83.3
272	12.6	0.0	32.4

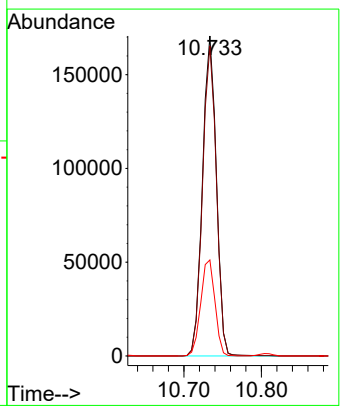


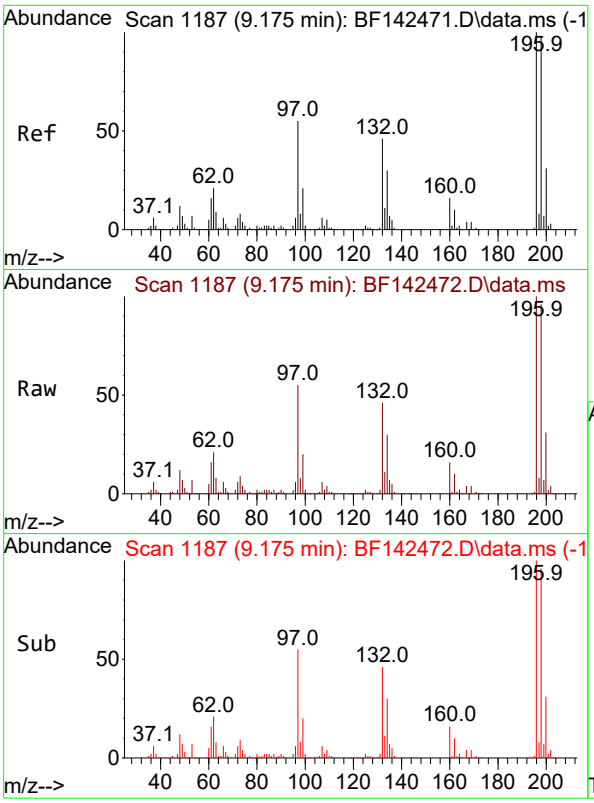


#42
2,4,6-Tribromophenol
Concen: 104.956 ng
RT: 10.733 min Scan# 1452
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:330 Resp: 211319

Ion	Ratio	Lower	Upper
330	100		
332	97.0	77.6	116.4
141	30.9	24.6	36.8



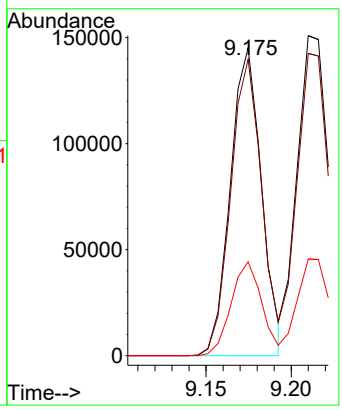


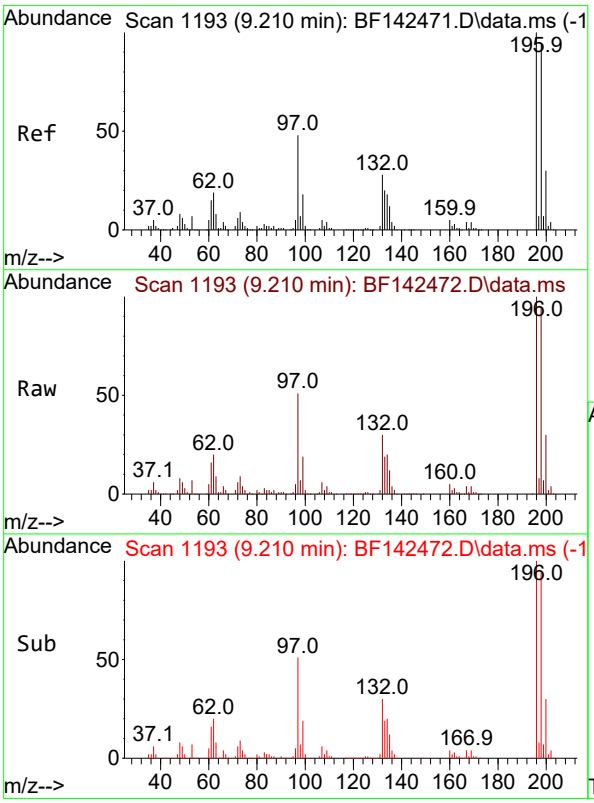
#43
2,4,6-Trichlorophenol
Concen: 52.421 ng
RT: 9.175 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:196 Resp: 184076

Ion	Ratio	Lower	Upper
196	100		
198	96.3	78.8	118.2
200	30.5	24.9	37.3

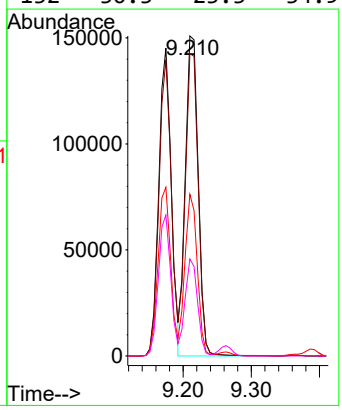


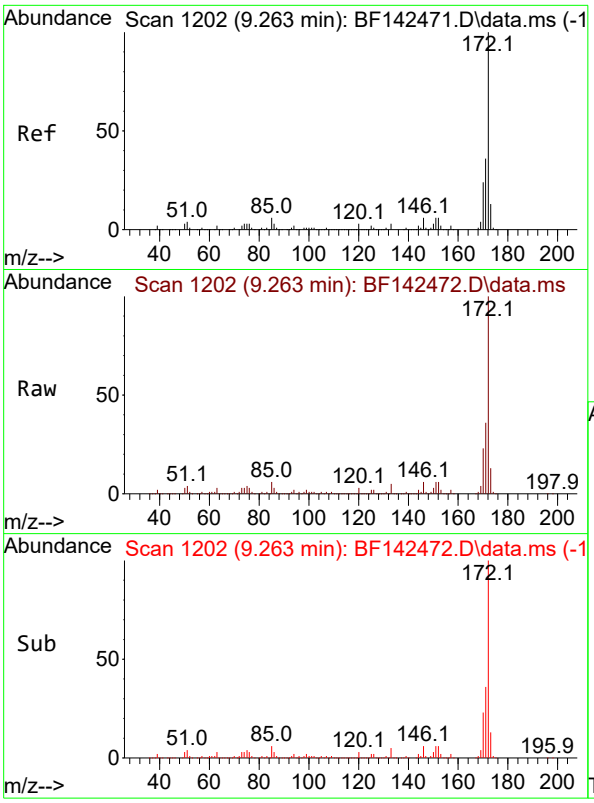


#44
2,4,5-Trichlorophenol
Concen: 53.537 ng
RT: 9.210 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:196 Resp: 198266

Ion	Ratio	Lower	Upper
196	100		
198	94.4	75.5	113.3
97	50.5	39.3	58.9
132	30.3	23.3	34.9



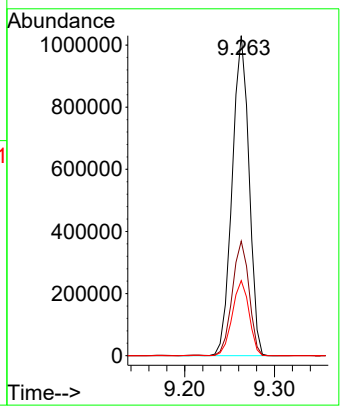


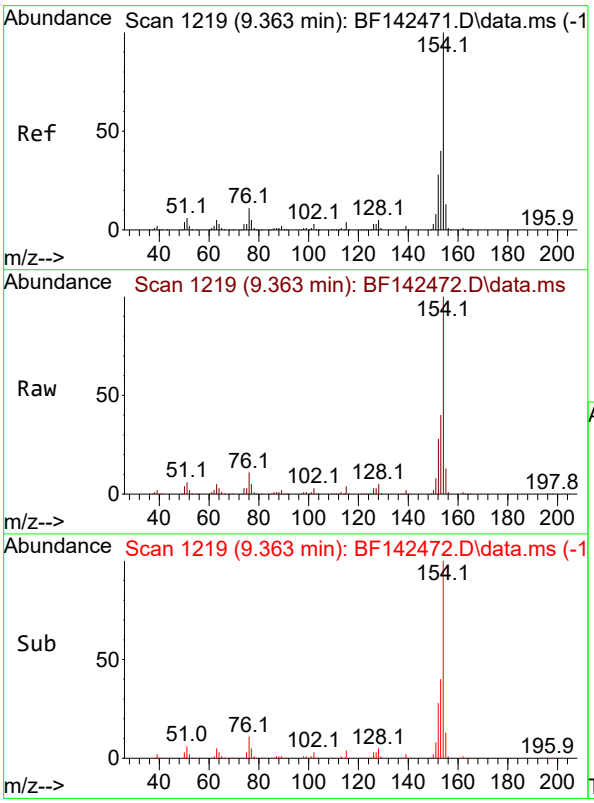
#45
2-Fluorobiphenyl
Concen: 99.269 ng
RT: 9.263 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:172 Resp: 1342037

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	42.8
170	23.4	18.9	28.3

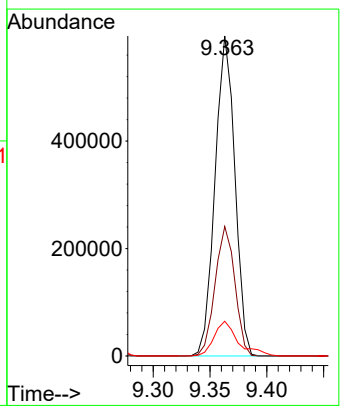


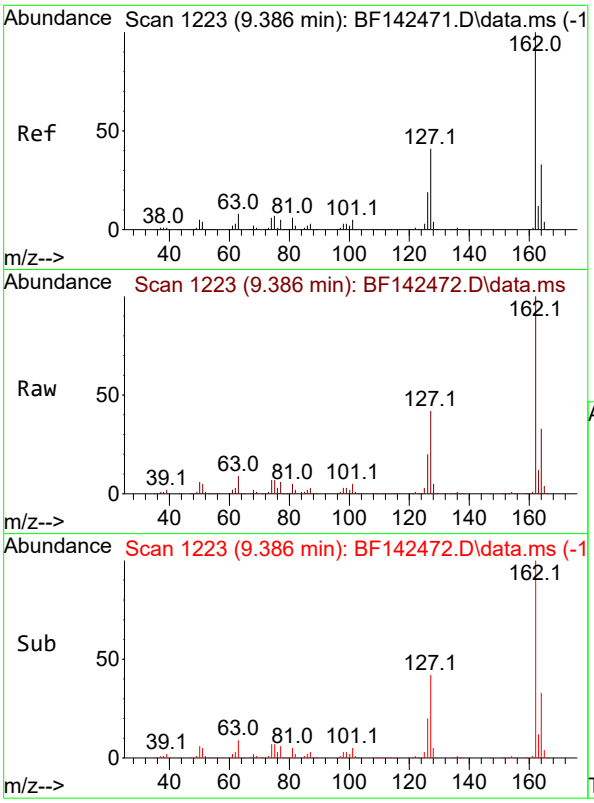


#46
1,1'-Biphenyl
Concen: 51.405 ng
RT: 9.363 min Scan# 1219
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:154 Resp: 723473

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.4	60.4
76	10.8	0.0	30.8



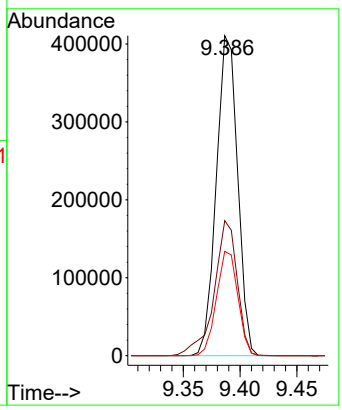


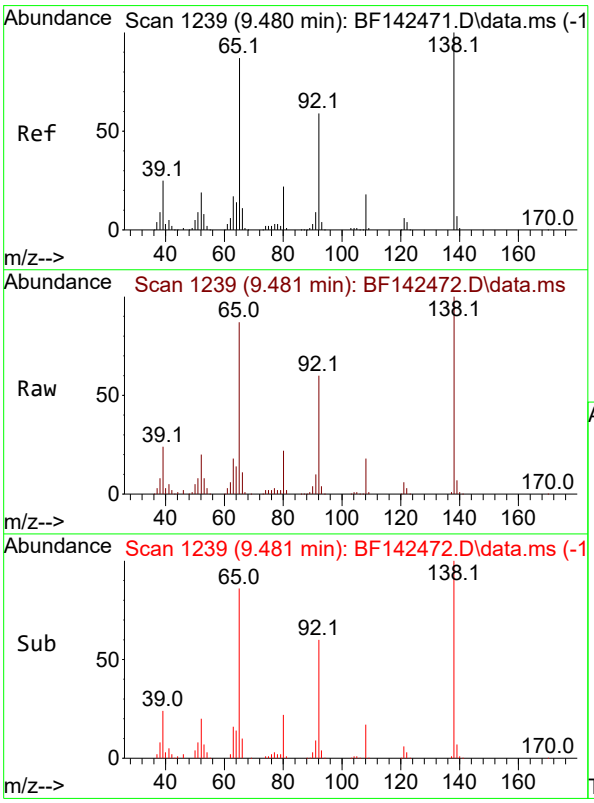
#47
2-Chloronaphthalene
Concen: 51.583 ng
RT: 9.386 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 536379

Ion	Ratio	Lower	Upper
162	100		
127	42.2	33.5	50.3
164	32.6	26.1	39.1

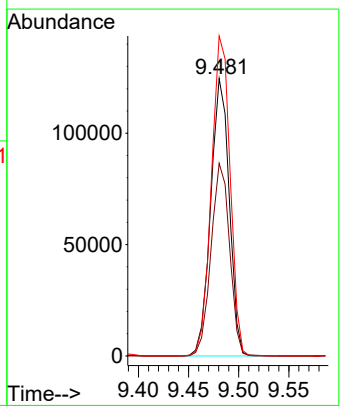


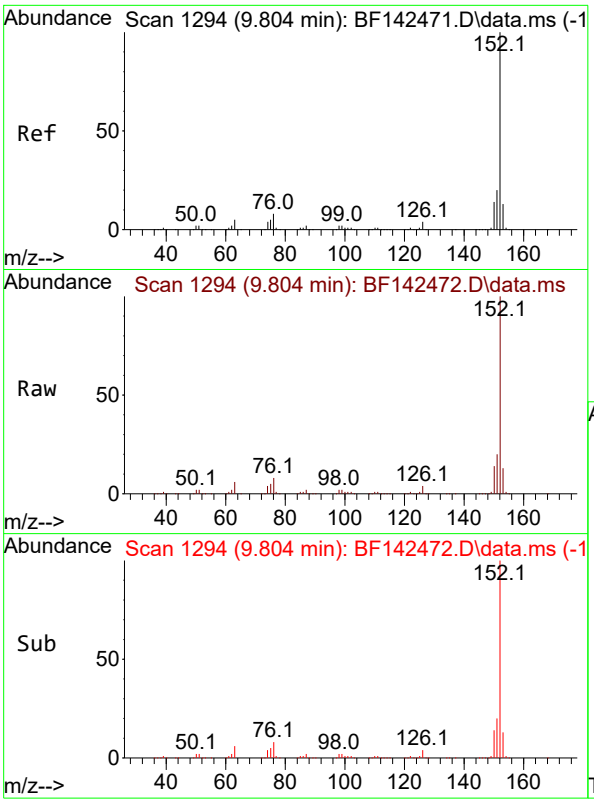


#48
2-Nitroaniline
Concen: 53.410 ng
RT: 9.481 min Scan# 1239
Delta R.T. -0.005 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion: 65 Resp: 160529

Ion	Ratio	Lower	Upper
65	100		
92	69.4	54.4	81.6
138	115.3	91.4	137.2



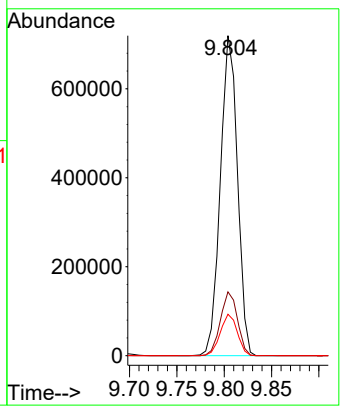


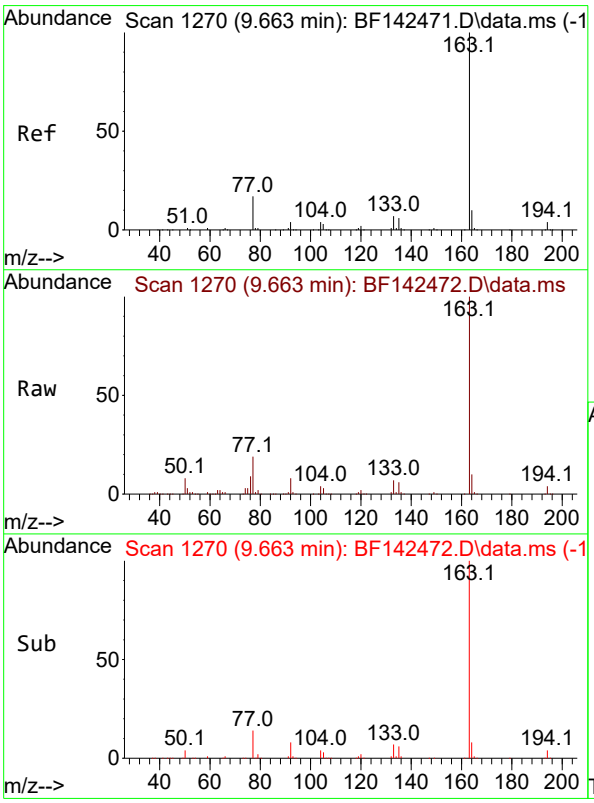
#49
Acenaphthylene
Concen: 51.602 ng
RT: 9.804 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 906063

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.8
153	12.9	10.6	15.8

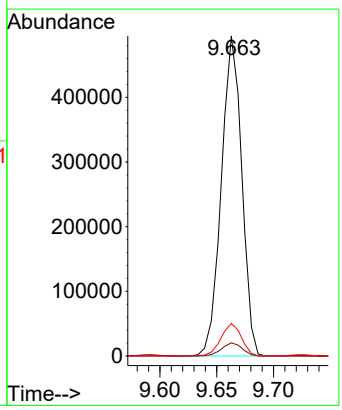


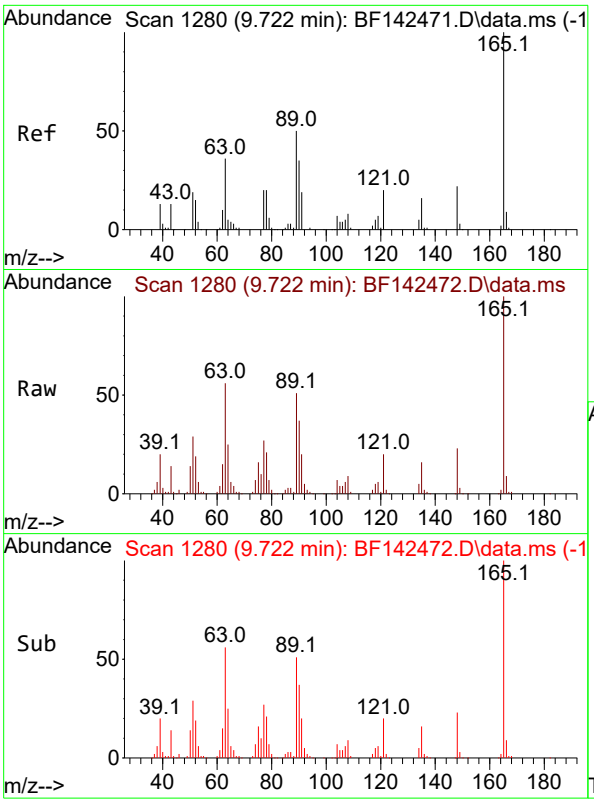


#50
Dimethylphthalate
Concen: 51.764 ng
RT: 9.663 min Scan# 1270
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:163 Resp: 619616

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.3	4.9
164	10.1	8.2	12.4



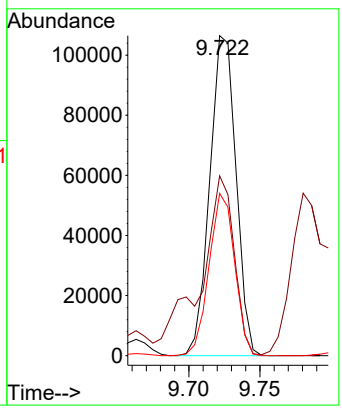


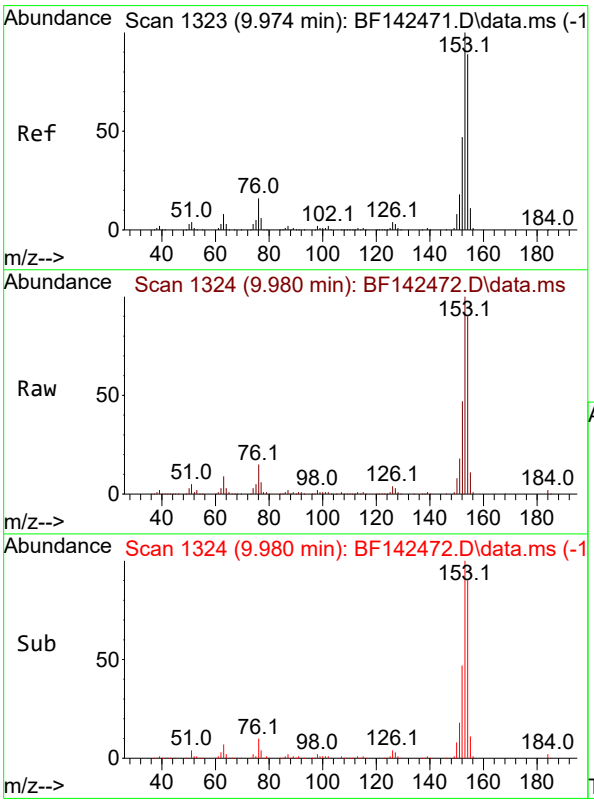
#51
2,6-Dinitrotoluene
Concen: 53.064 ng
RT: 9.722 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 137090

Ion	Ratio	Lower	Upper
165	100		
63	56.2	42.9	64.3
89	50.7	40.2	60.4

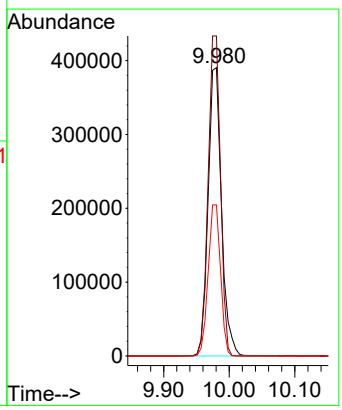


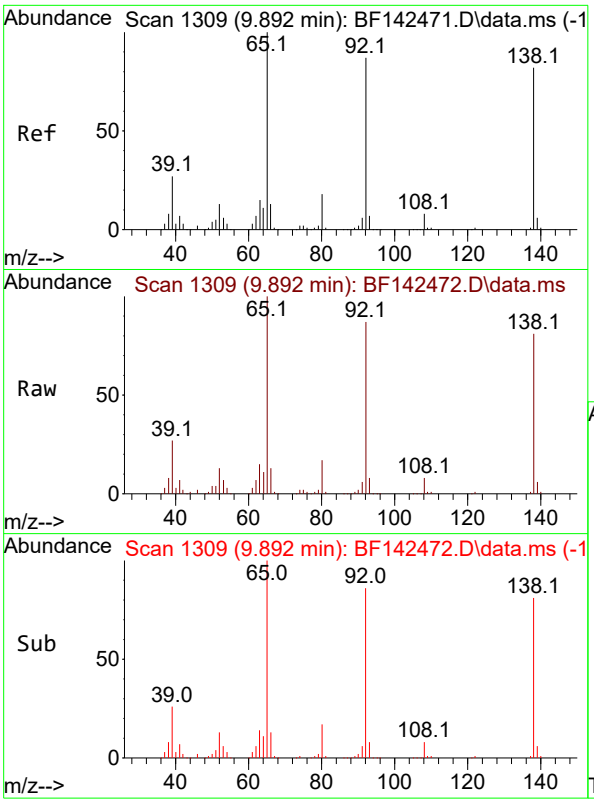


#52
Acenaphthene
Concen: 51.742 ng
RT: 9.980 min Scan# 1324
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:154 Resp: 554762

Ion	Ratio	Lower	Upper
154	100		
153	111.0	90.0	135.0
152	52.4	42.6	64.0



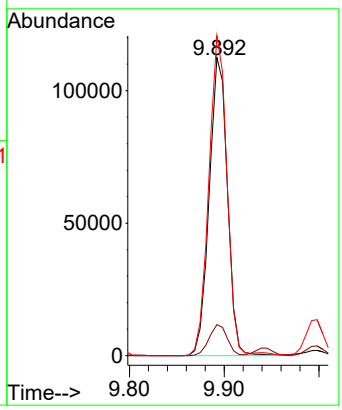


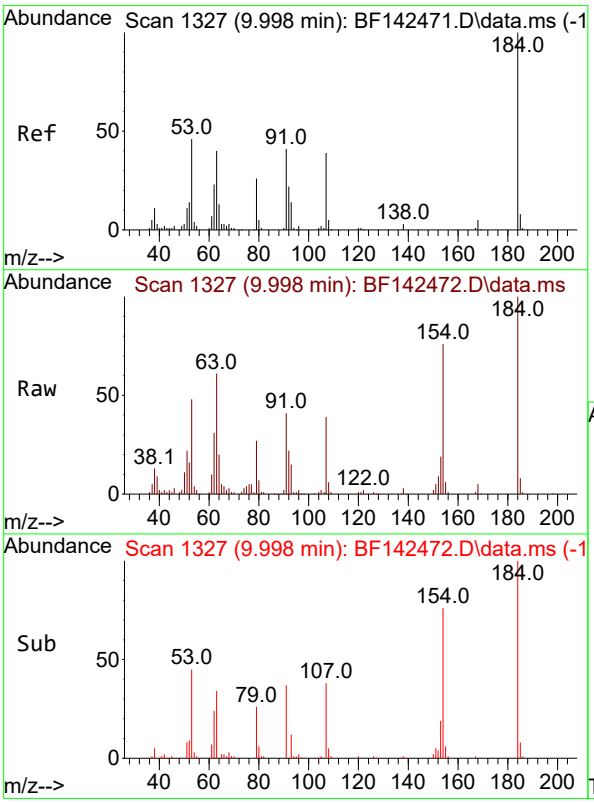
#53
3-Nitroaniline
Concen: 53.082 ng
RT: 9.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:138 Resp: 149786

Ion	Ratio	Lower	Upper
138	100		
108	10.4	8.1	12.1
92	107.3	85.2	127.8

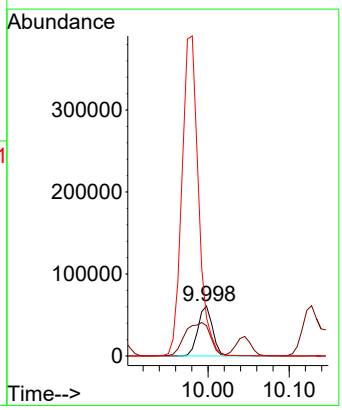


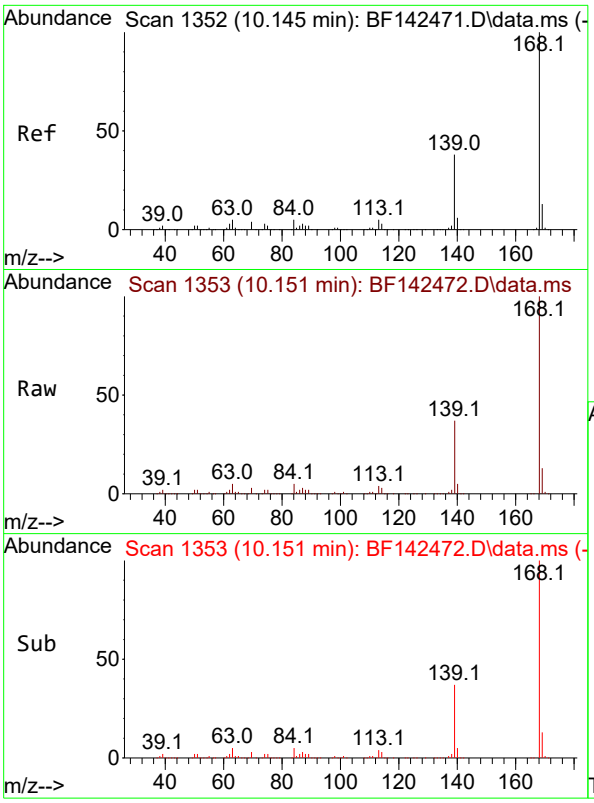


#54
2,4-Dinitrophenol
Concen: 57.487 ng
RT: 9.998 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:184 Resp: 76730

Ion	Ratio	Lower	Upper
184	100		
63	60.6	46.3	69.5
154	76.3	56.8	85.2



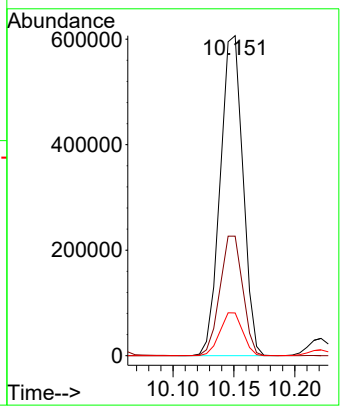


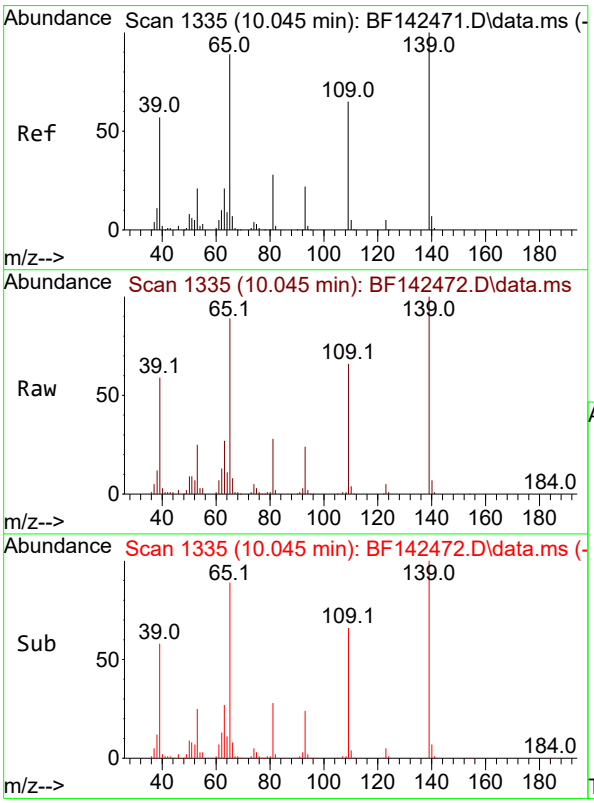
#55
Dibenzofuran
Concen: 51.038 ng
RT: 10.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:168 Resp: 787446

Ion	Ratio	Lower	Upper
168	100		
139	37.3	30.2	45.2
169	13.3	10.7	16.1

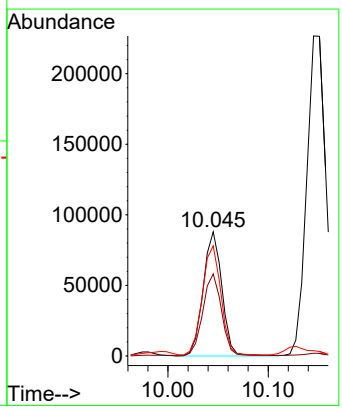


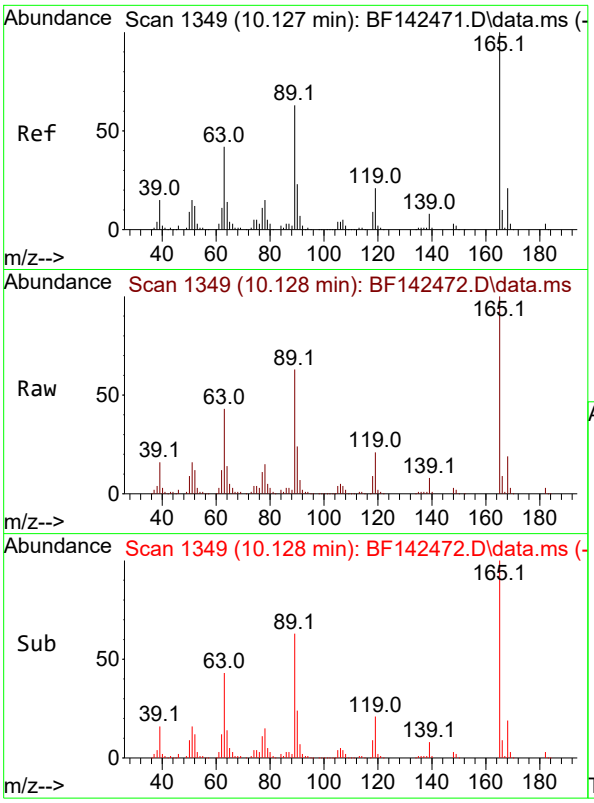


#56
4-Nitrophenol
Concen: 54.849 ng
RT: 10.045 min Scan# 1335
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:139 Resp: 114198

Ion	Ratio	Lower	Upper
139	100		
109	66.1	45.1	85.1
65	88.7	69.7	109.7



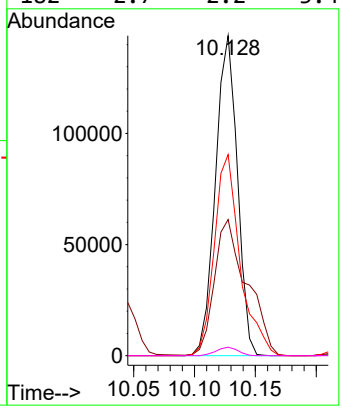


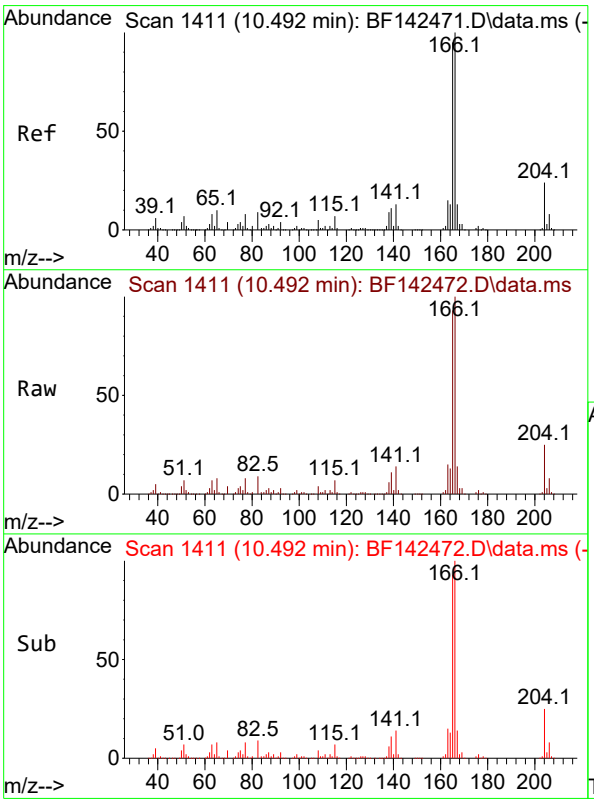
#57
2,4-Dinitrotoluene
Concen: 53.473 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 180417

Ion	Ratio	Lower	Upper
165	100		
63	42.5	33.6	50.4
89	62.8	50.2	75.4
182	2.7	2.2	3.4

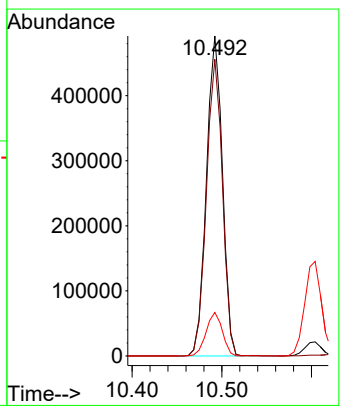


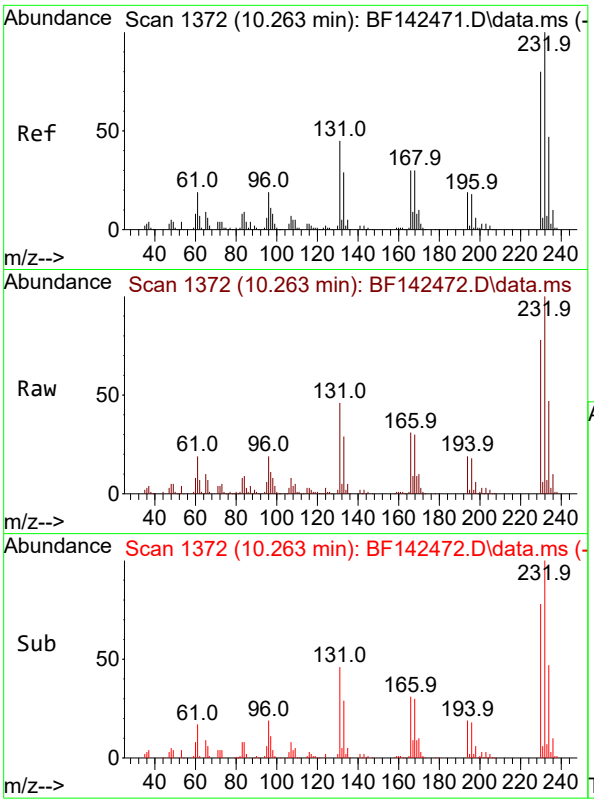


#58
Fluorene
Concen: 51.090 ng
RT: 10.492 min Scan# 1411
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:166 Resp: 608966

Ion	Ratio	Lower	Upper
166	100		
165	92.7	75.8	113.8
167	13.6	10.6	16.0



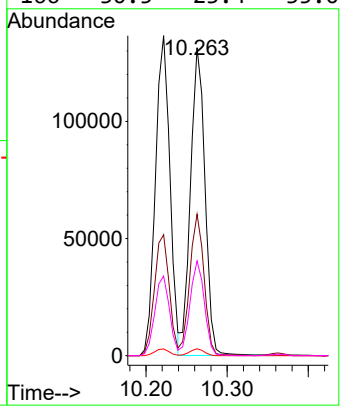


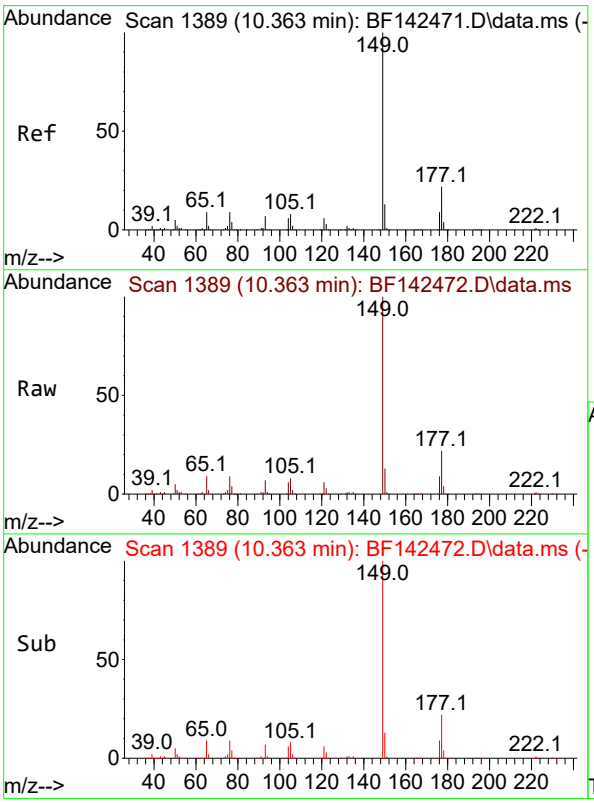
#59
2,3,4,6-Tetrachlorophenol
Concen: 52.897 ng
RT: 10.263 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:232 Resp: 163539

Ion	Ratio	Lower	Upper
232	100		
131	45.5	35.2	52.8
130	2.2	1.7	2.5
166	30.5	23.4	35.0

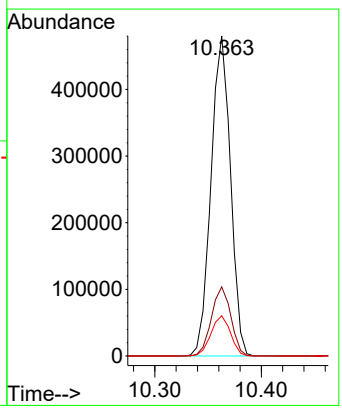


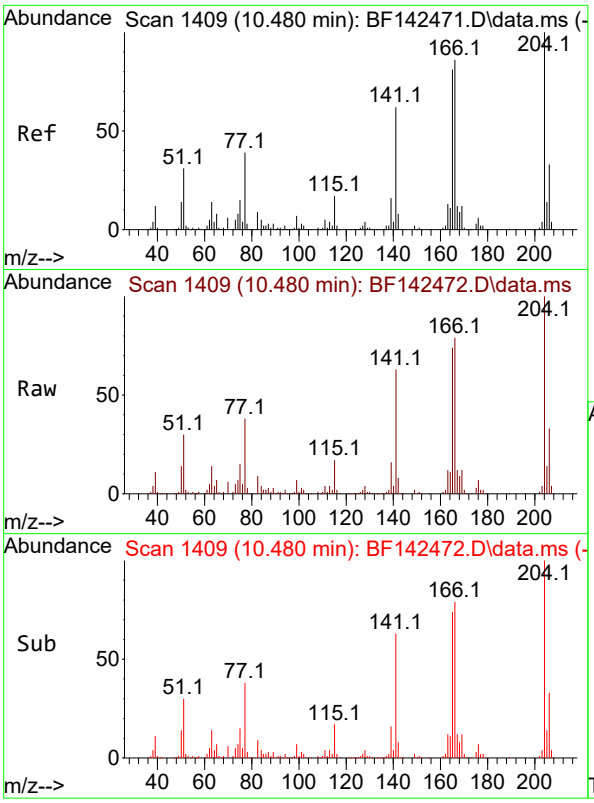


#60
Diethylphthalate
Concen: 52.089 ng
RT: 10.363 min Scan# 1389
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:149 Resp: 608941

Ion	Ratio	Lower	Upper
149	100		
177	21.6	17.6	26.4
150	12.5	10.1	15.1



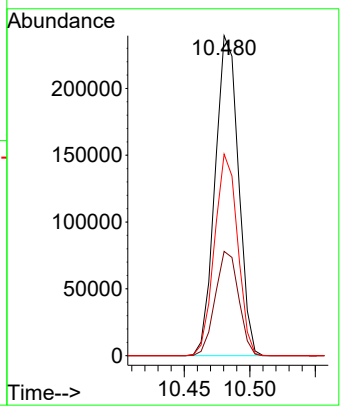


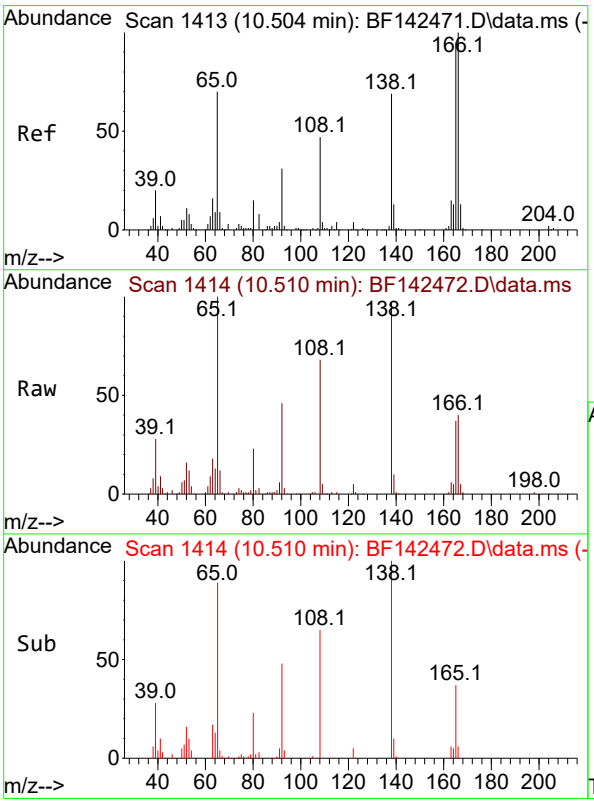
#61
4-Chlorophenyl-phenylether
Concen: 50.597 ng
RT: 10.480 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:204 Resp: 296264

Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.3	39.5
141	63.0	49.5	74.3

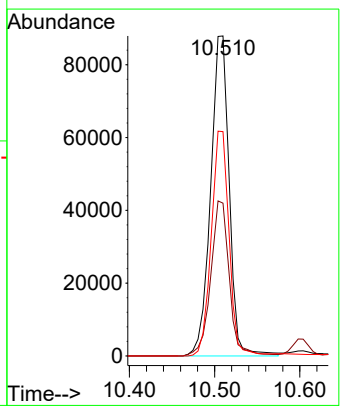


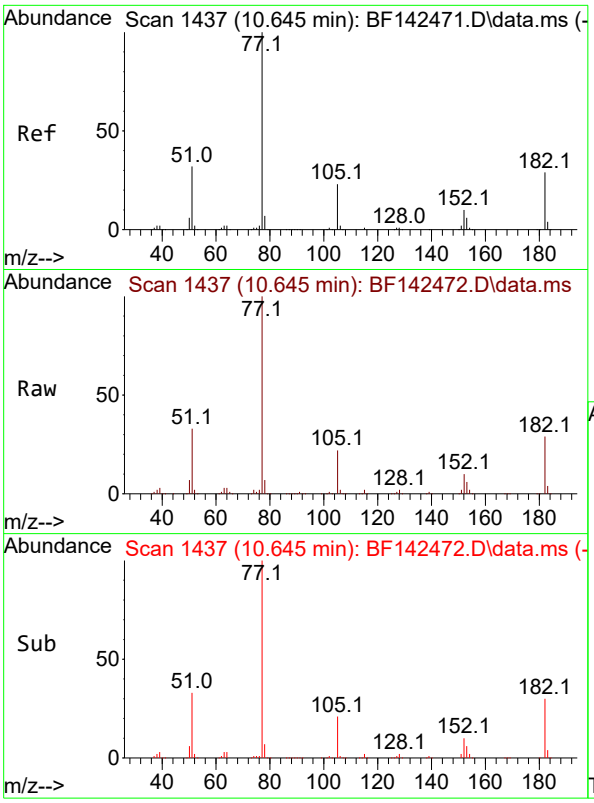


#62
4-Nitroaniline
Concen: 52.024 ng
RT: 10.510 min Scan# 1414
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:138 Resp: 133141

Ion	Ratio	Lower	Upper
138	100		
92	47.7	26.0	66.0
108	70.1	48.4	88.4



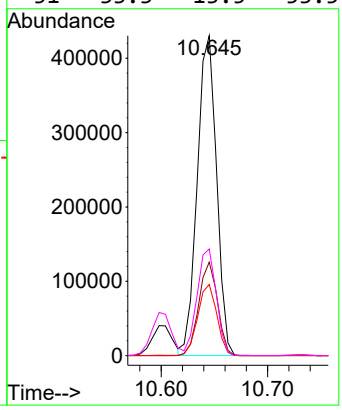


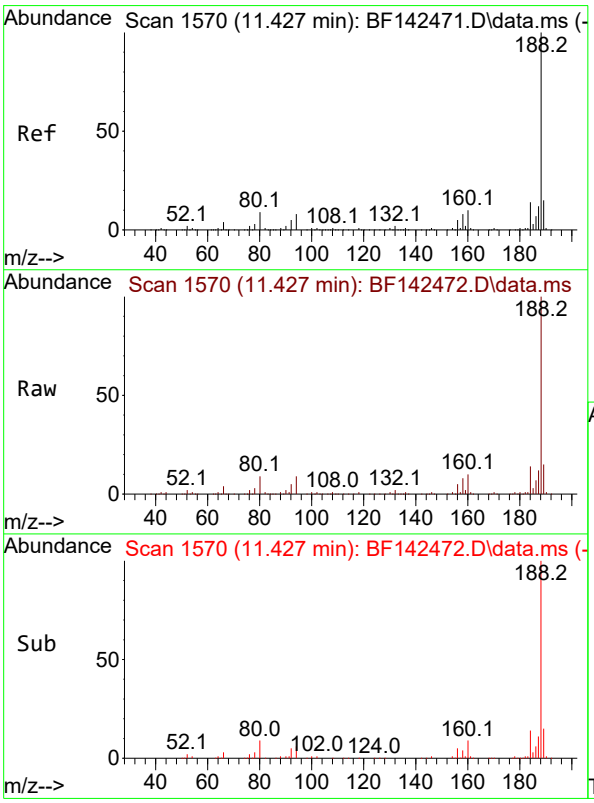
#63
Azobenzene
Concen: 51.703 ng
RT: 10.645 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 542894

Ion	Ratio	Lower	Upper
77	100		
182	29.3	9.0	49.0
105	22.3	2.4	42.4
51	33.3	13.5	53.5

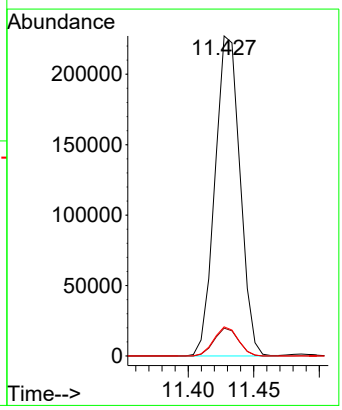


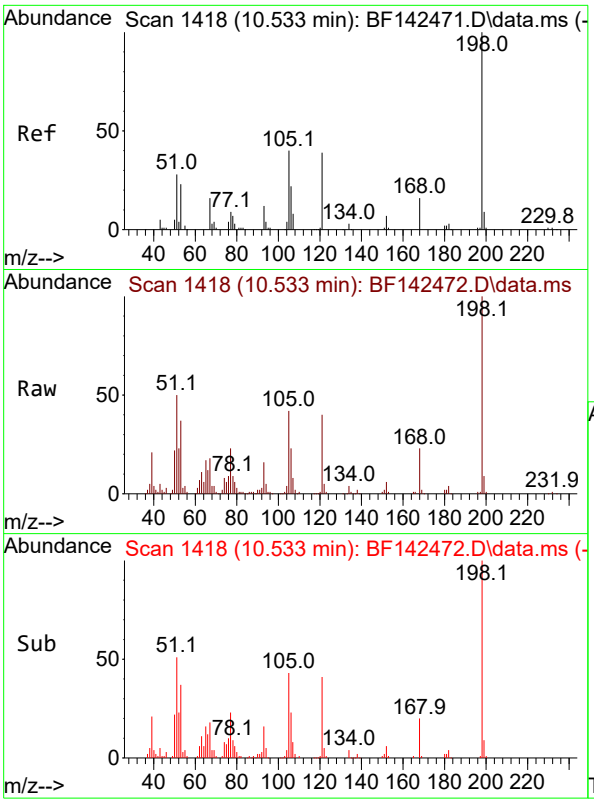


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:188 Resp: 301685

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.6	10.0
80	9.1	7.4	11.0



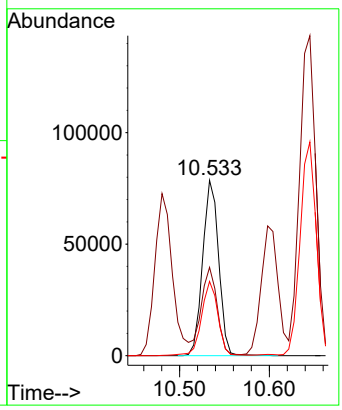


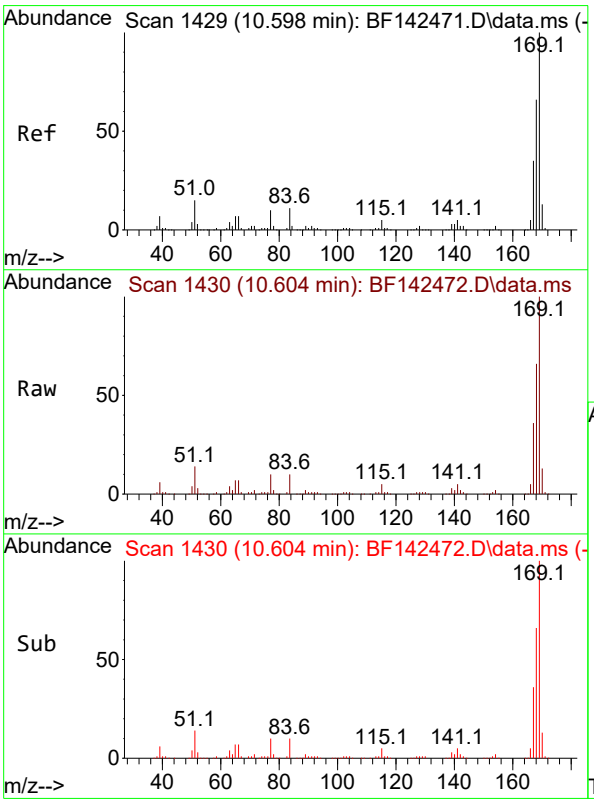
#65
4,6-Dinitro-2-methylphenol
Concen: 57.734 ng
RT: 10.533 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:198 Resp: 97203

Ion	Ratio	Lower	Upper
198	100		
51	50.4	28.3	68.3
105	42.4	21.3	61.3

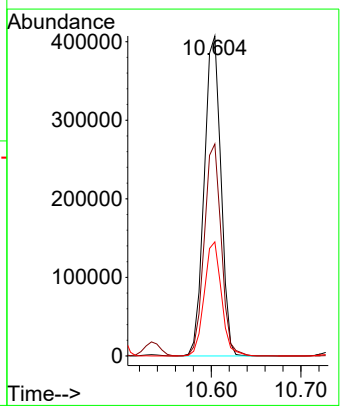


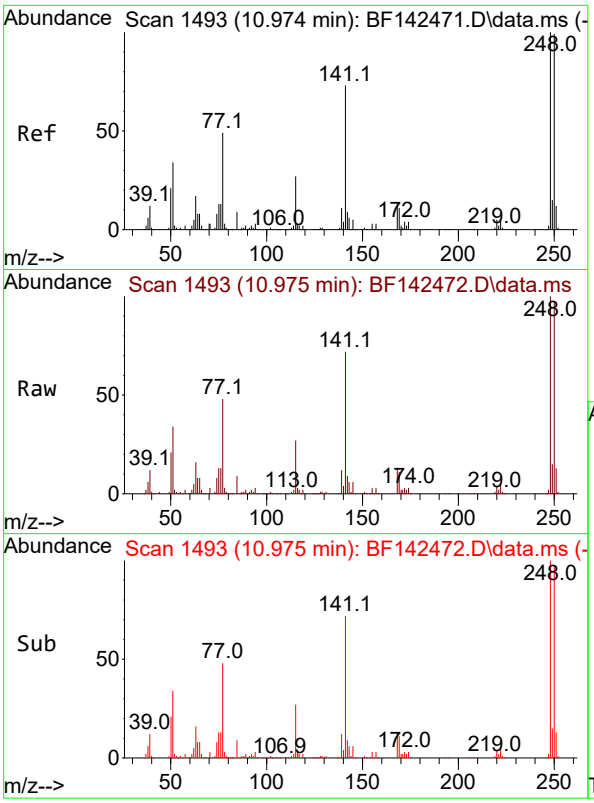


#66
n-Nitrosodiphenylamine
Concen: 50.960 ng
RT: 10.604 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:169 Resp: 525974

Ion	Ratio	Lower	Upper
169	100		
168	66.3	52.7	79.1
167	35.7	28.3	42.5



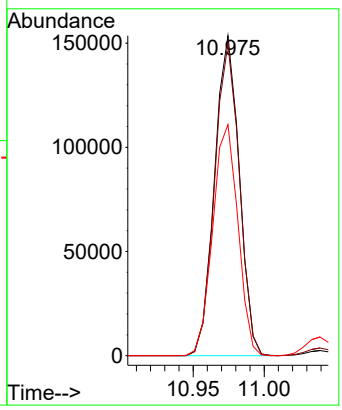


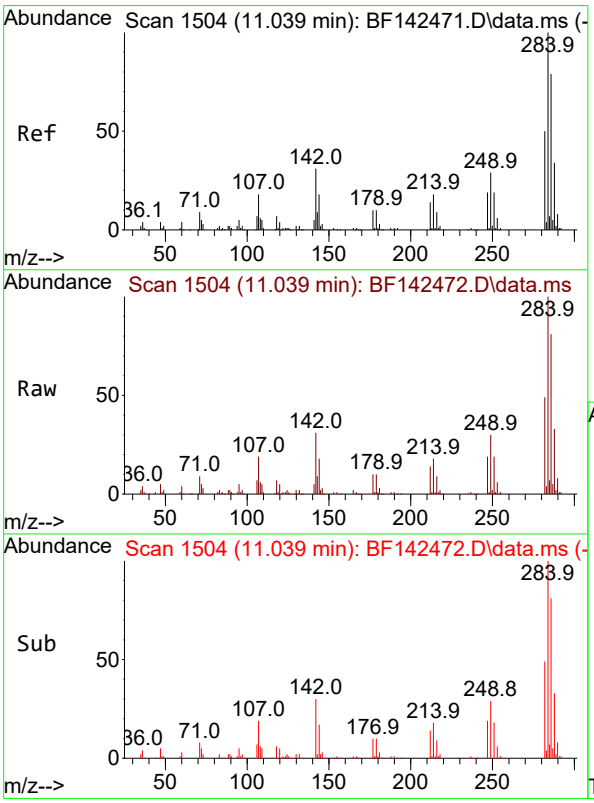
#67
4-Bromophenyl-phenylether
Concen: 52.061 ng
RT: 10.975 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:248 Resp: 185711

Ion	Ratio	Lower	Upper
248	100		
250	97.3	79.0	118.4
141	72.2	58.4	87.6

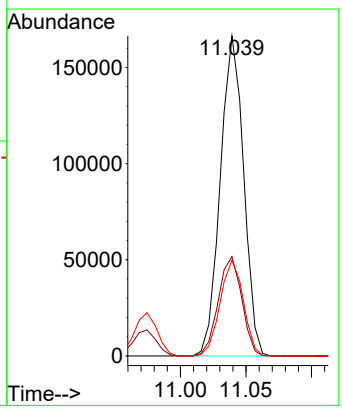


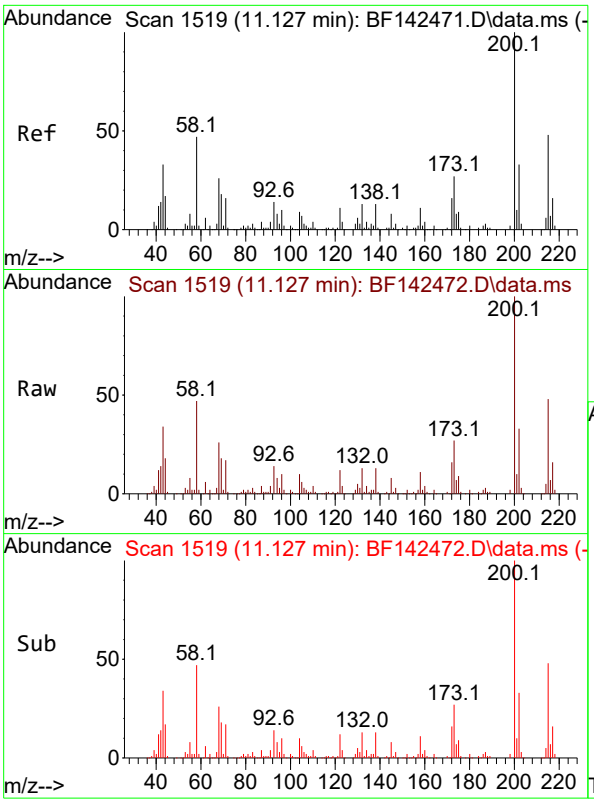


#68
Hexachlorobenzene
Concen: 52.151 ng
RT: 11.039 min Scan# 1504
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:284 Resp: 205759

Ion	Ratio	Lower	Upper
284	100		
142	31.1	24.8	37.2
249	29.9	23.6	35.4



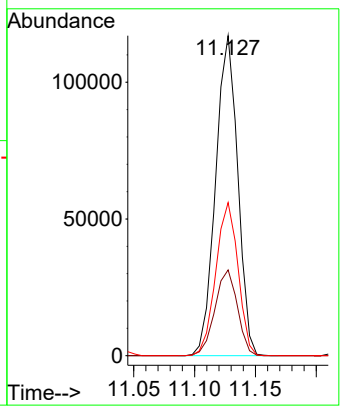


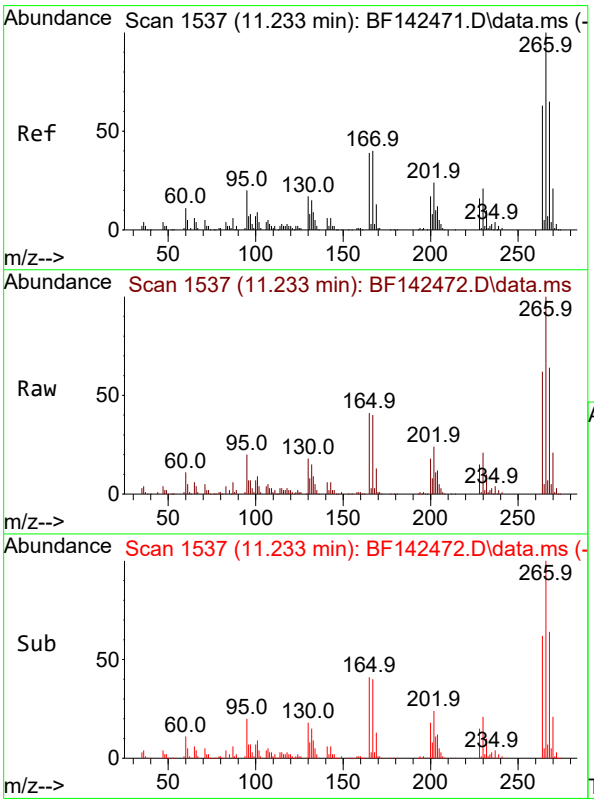
#69
Atrazine
Concen: 53.966 ng
RT: 11.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:200 Resp: 147922

Ion	Ratio	Lower	Upper
200	100		
173	26.8	7.4	47.4
215	47.9	28.5	68.5

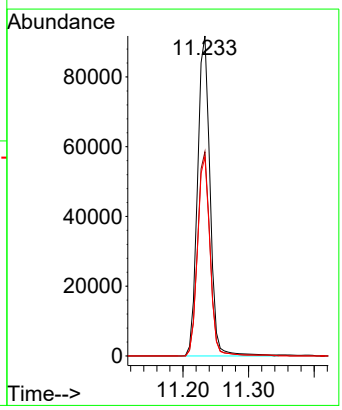


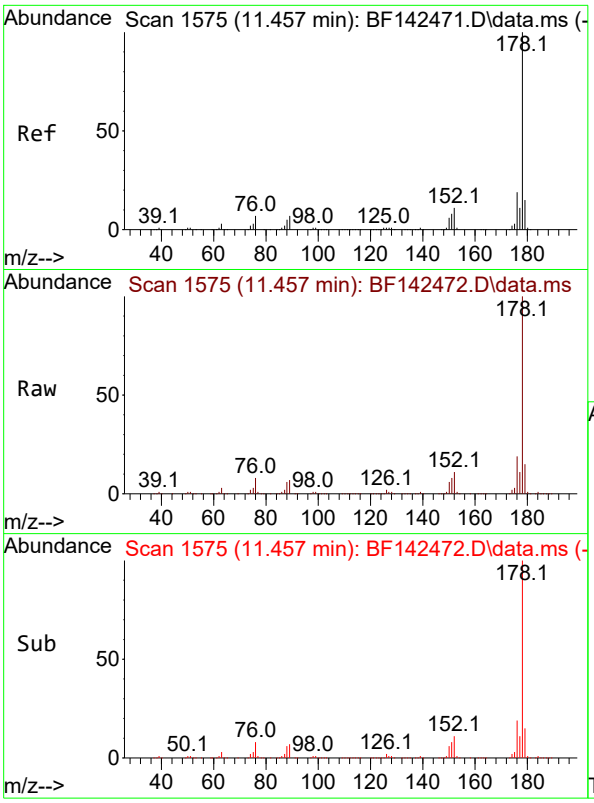


#70
Pentachlorophenol
Concen: 54.852 ng
RT: 11.233 min Scan# 1537
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:266 Resp: 122184

Ion	Ratio	Lower	Upper
266	100		
268	63.8	51.7	77.5
264	62.2	50.4	75.6



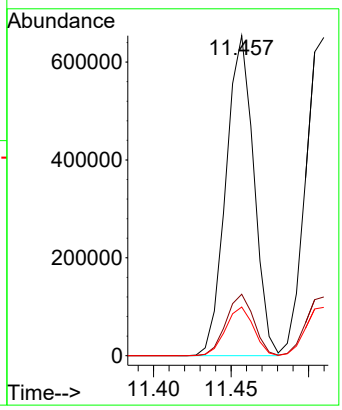


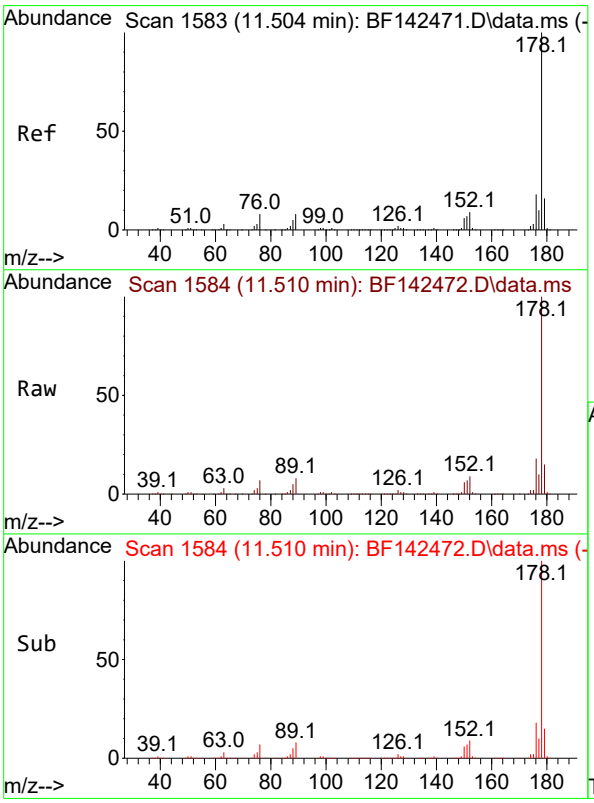
#71
Phenanthrene
Concen: 50.739 ng
RT: 11.457 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:178 Resp: 818043

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.0
179	15.2	12.3	18.5

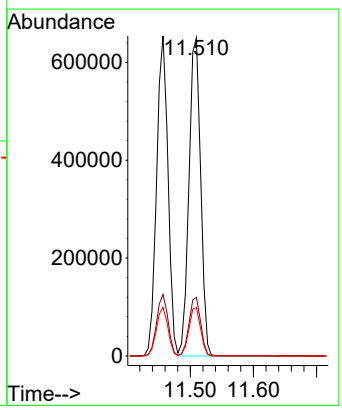


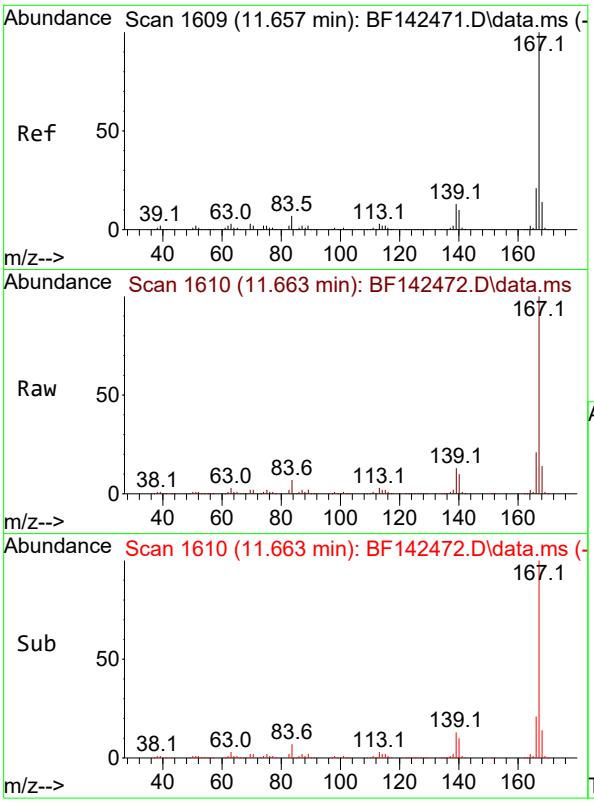


#72
Anthracene
Concen: 50.882 ng
RT: 11.510 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:178 Resp: 837242

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	21.8
179	15.2	12.4	18.6



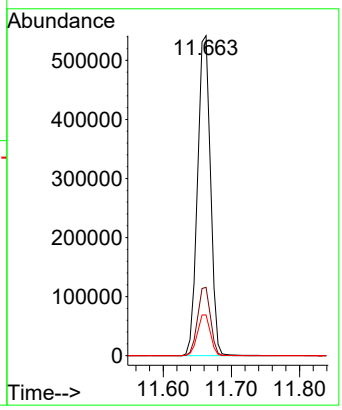


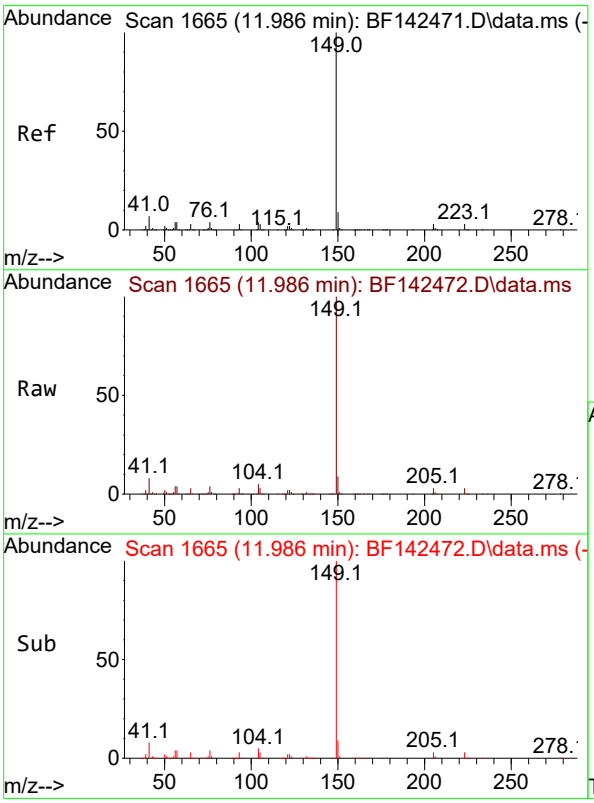
#73
Carbazole
Concen: 50.927 ng
RT: 11.663 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:167 Resp: 716381

Ion	Ratio	Lower	Upper
167	100		
166	21.4	16.9	25.3
139	12.7	10.2	15.4

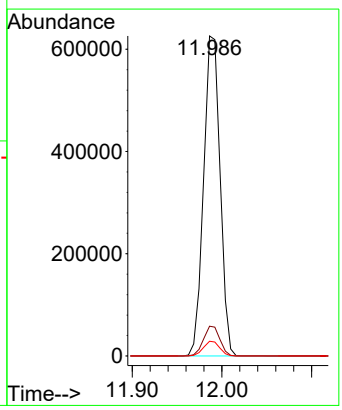


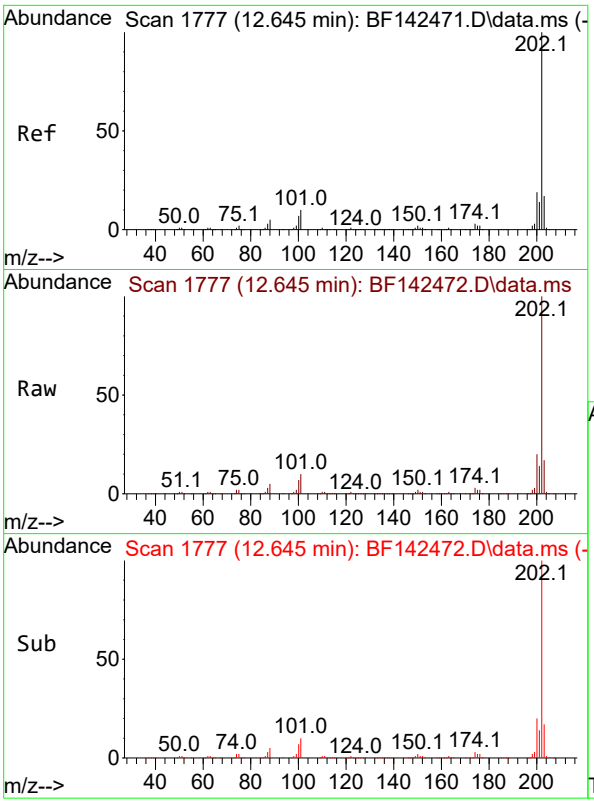


#74
Di-n-butylphthalate
Concen: 51.856 ng
RT: 11.986 min Scan# 1665
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:149 Resp: 798451

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.3	10.9
104	4.6	3.6	5.4



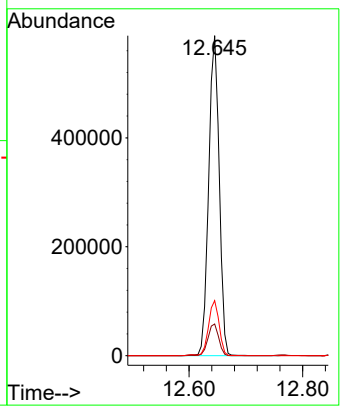


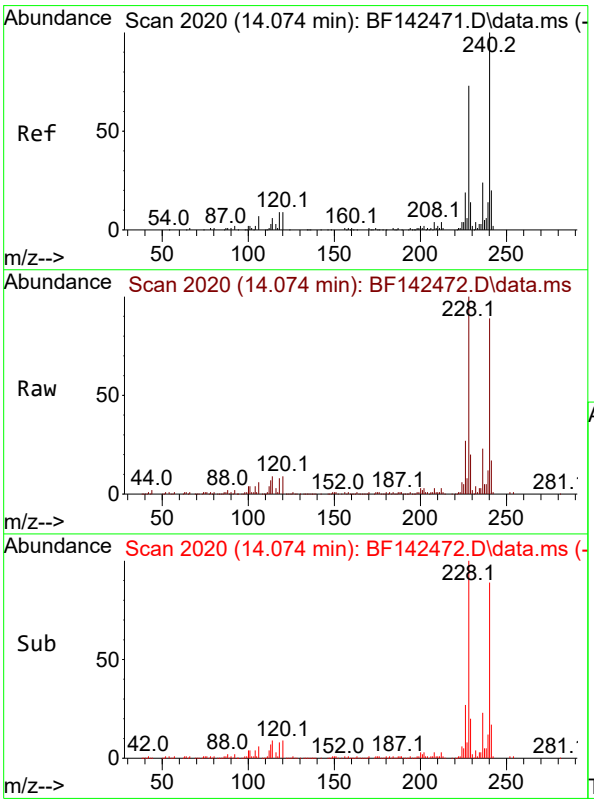
#75
Fluoranthene
Concen: 49.923 ng
RT: 12.645 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:202 Resp: 752083

Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	29.6
203	17.2	0.0	37.2

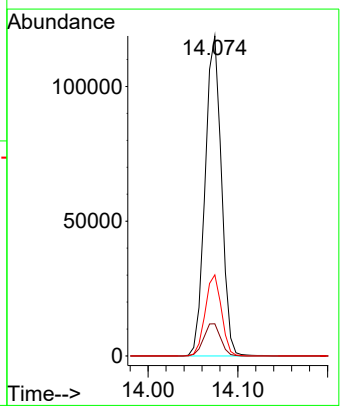


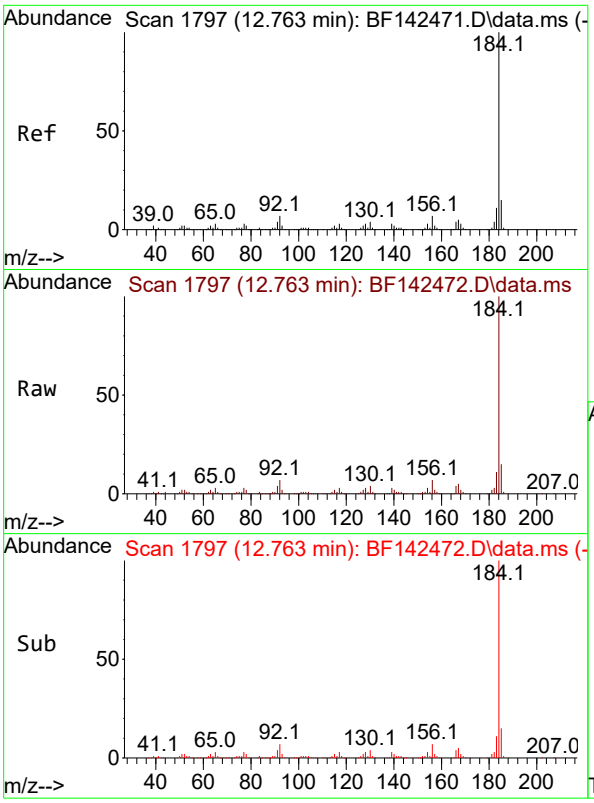


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.074 min Scan# 2020
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:240 Resp: 149689

Ion	Ratio	Lower	Upper
240	100		
120	10.0	7.5	11.3
236	25.4	19.6	29.4



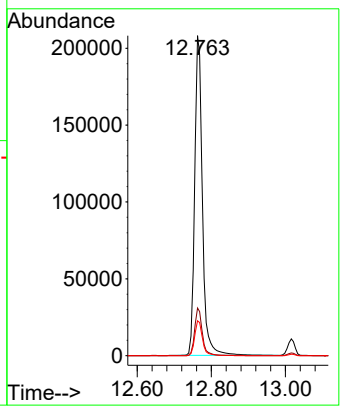


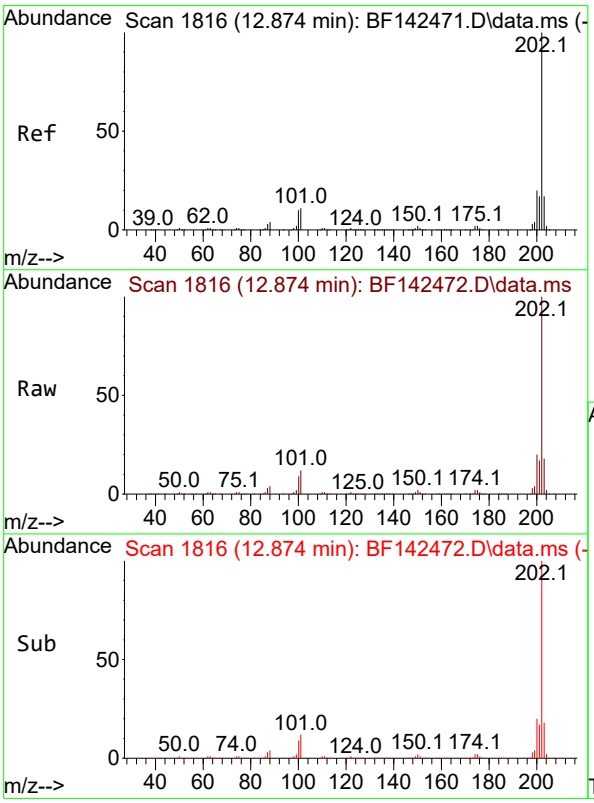
#77
Benzidine
Concen: 54.058 ng
RT: 12.763 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:184 Resp: 301122

Ion	Ratio	Lower	Upper
184	100		
185	14.9	11.6	17.4
183	10.9	9.0	13.4

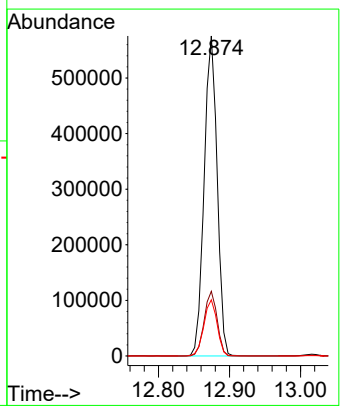


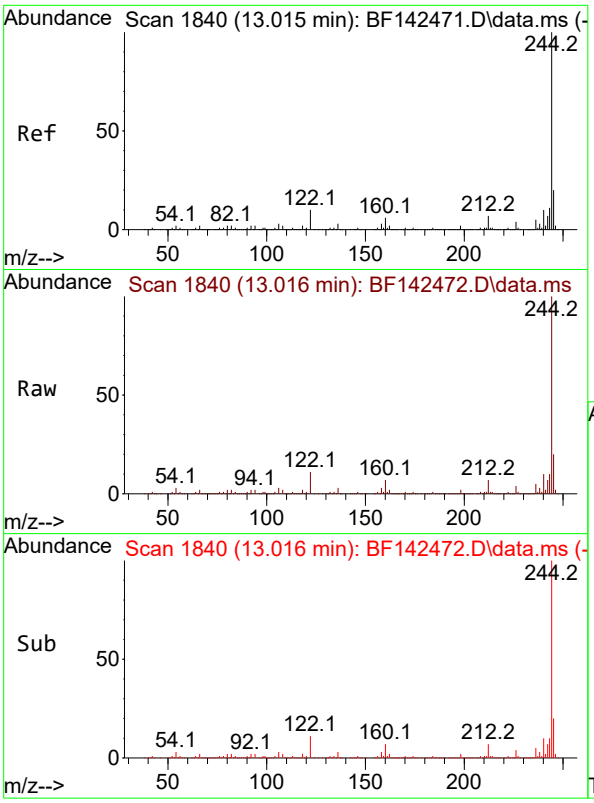


#78
Pyrene
Concen: 52.513 ng
RT: 12.874 min Scan# 1816
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:202 Resp: 733277

Ion	Ratio	Lower	Upper
202	100		
200	20.2	16.1	24.1
203	17.5	13.9	20.9



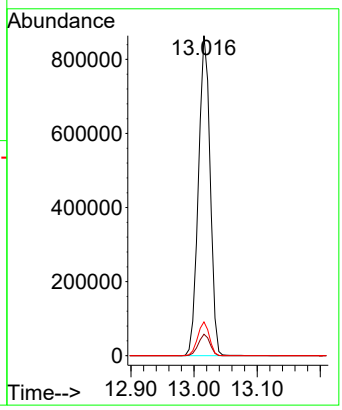


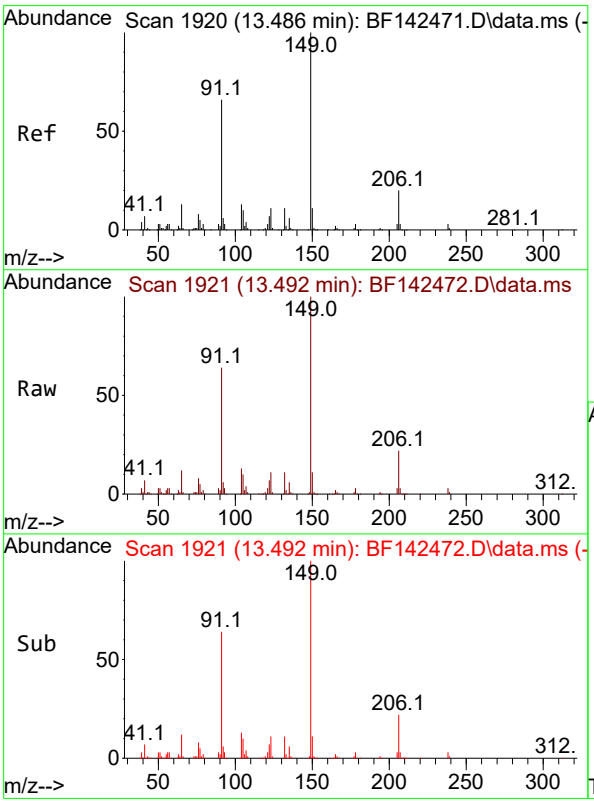
#79
Terphenyl-d14
Concen: 101.951 ng
RT: 13.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:244 Resp: 1116751

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.3	7.9
122	10.5	8.2	12.2

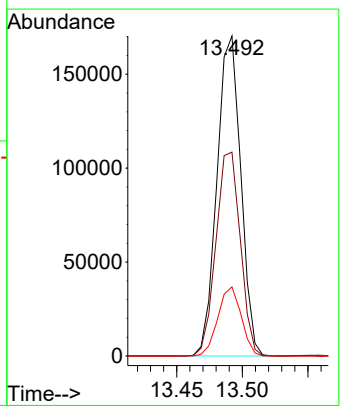


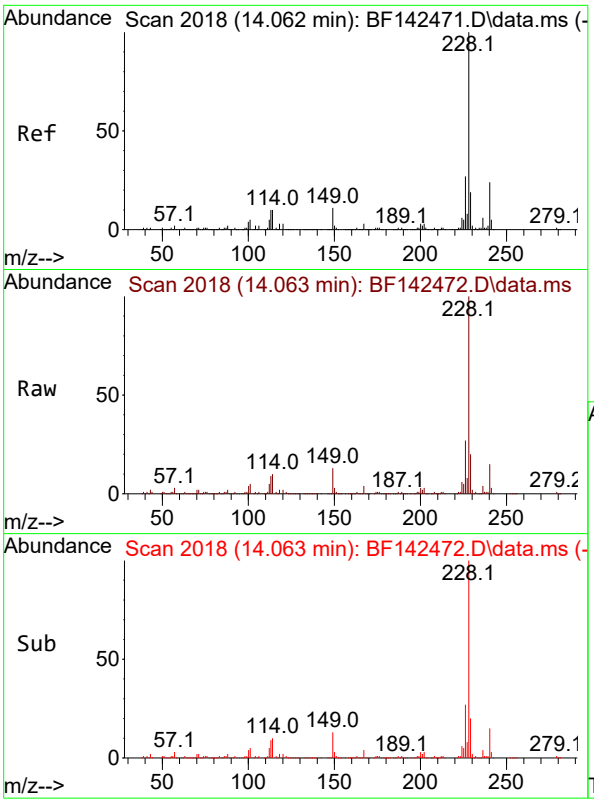


#80
Butylbenzylphthalate
Concen: 55.767 ng
RT: 13.492 min Scan# 1921
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:149 Resp: 215174

Ion	Ratio	Lower	Upper
149	100		
91	63.7	52.9	79.3
206	21.6	16.2	24.2



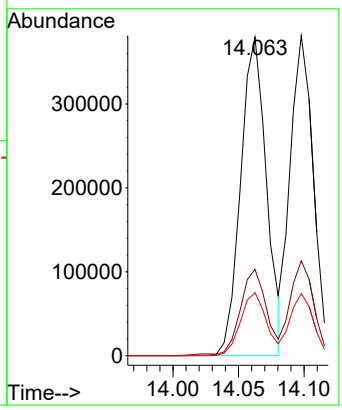


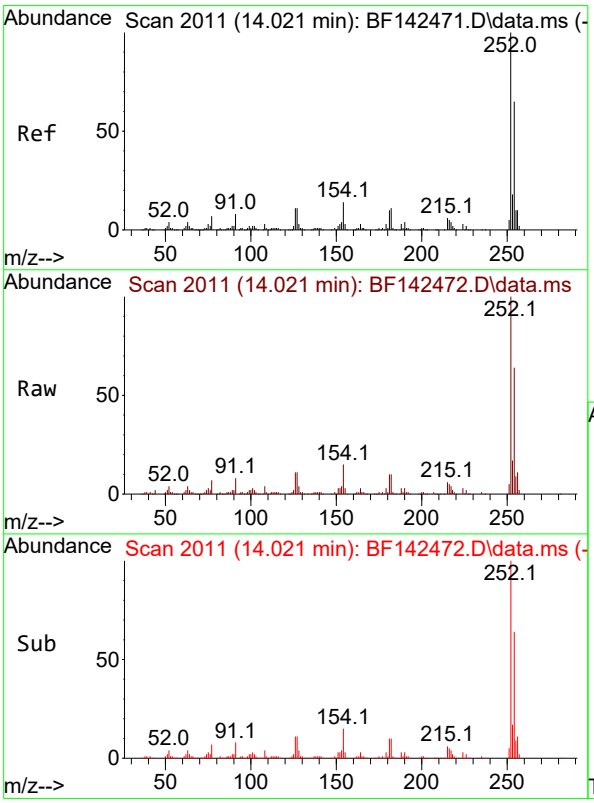
#81
Benzo(a)anthracene
Concen: 52.076 ng
RT: 14.063 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 520525

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.2	31.8
229	19.8	15.5	23.3

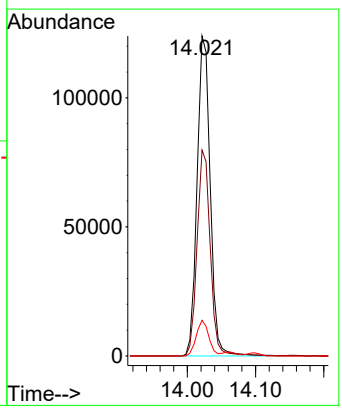


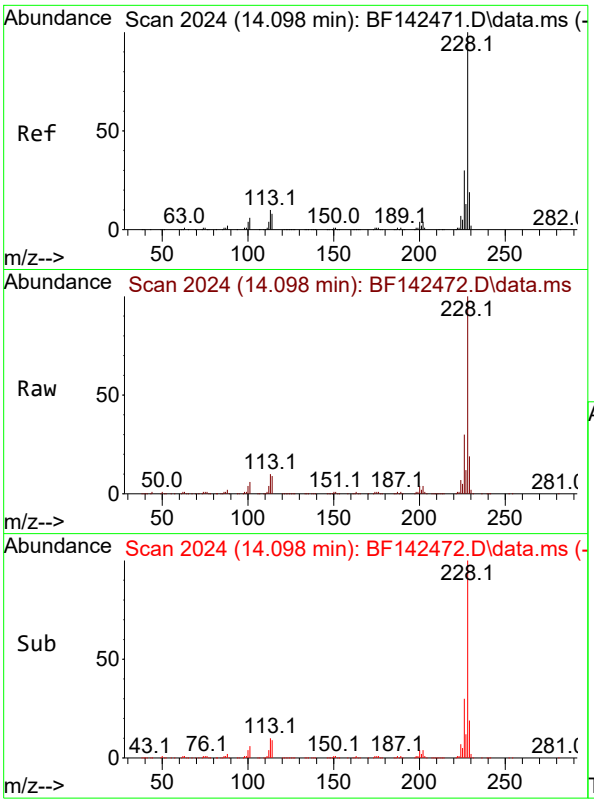


#82
3,3'-Dichlorobenzidine
Concen: 54.828 ng
RT: 14.021 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:252 Resp: 166223

Ion	Ratio	Lower	Upper
252	100		
254	64.4	52.0	78.0
126	11.2	8.9	13.3



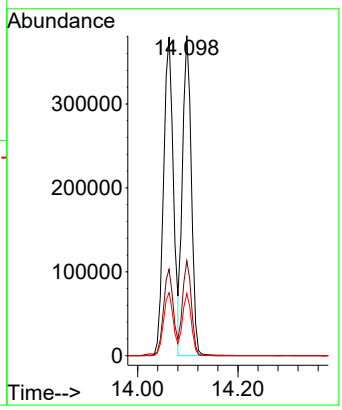


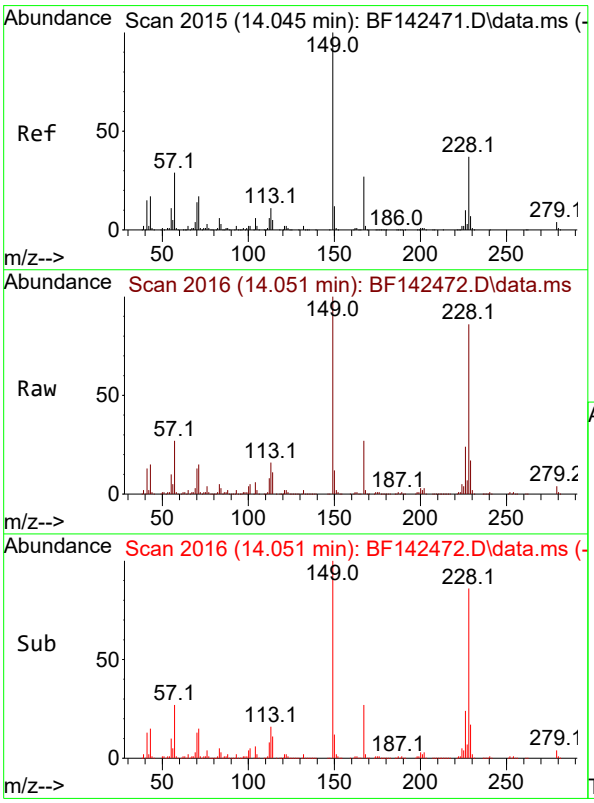
#83
Chrysene
Concen: 52.273 ng
RT: 14.098 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 469491

Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.8	35.6
229	19.4	15.4	23.2

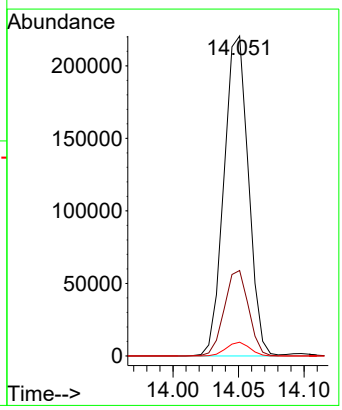


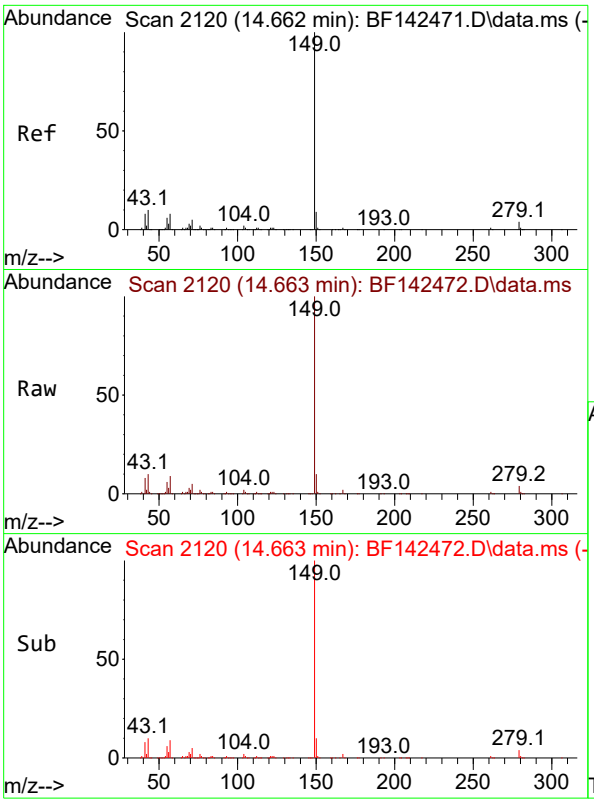


#84
Bis(2-ethylhexyl)phthalate
Concen: 57.932 ng
RT: 14.051 min Scan# 2016
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:149 Resp: 286151

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.5	32.3
279	4.3	3.2	4.8



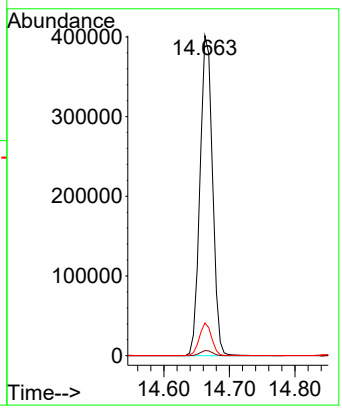


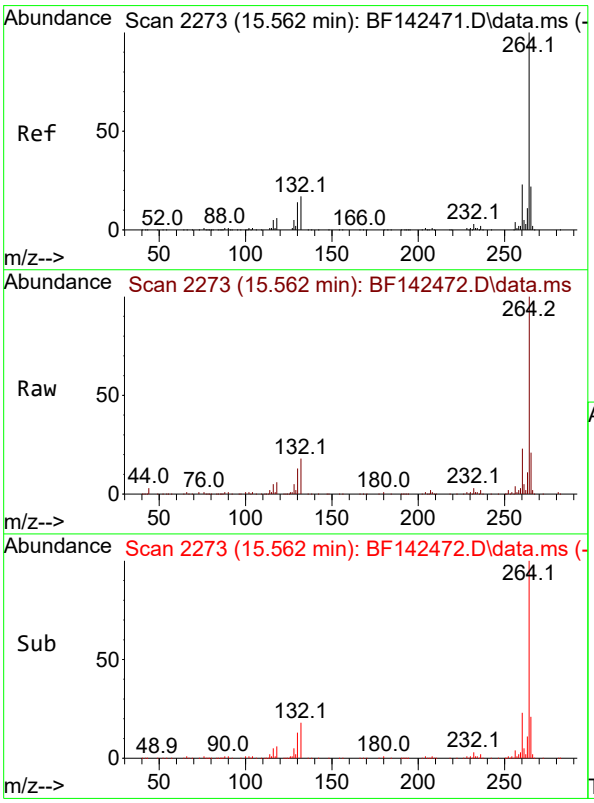
#85
Di-n-octyl phthalate
Concen: 55.482 ng
RT: 14.663 min Scan# 21
Delta R.T. -0.005 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:149 Resp: 535844

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	9.9	7.9	11.9

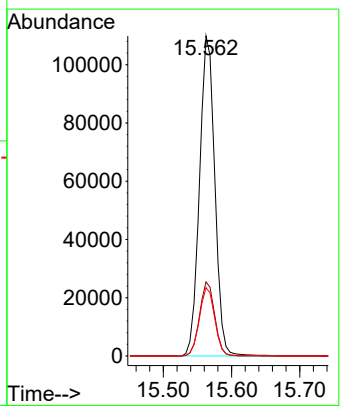


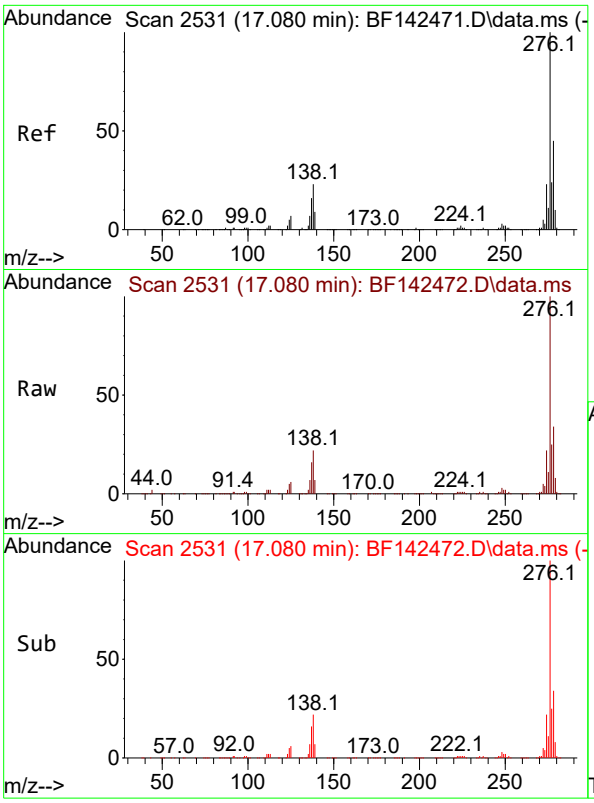


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:264 Resp: 171586

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	28.0
265	21.3	17.7	26.5



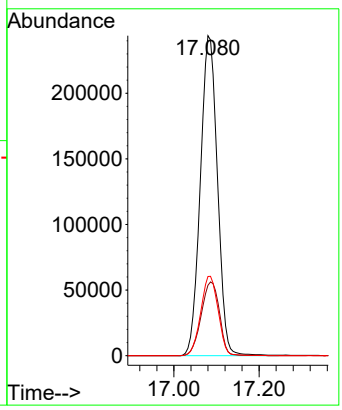


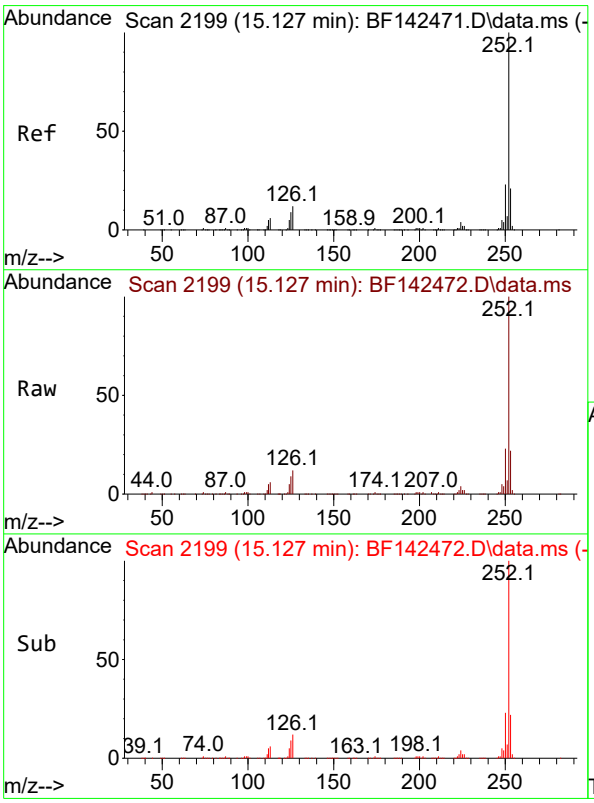
#87
Indeno(1,2,3-cd)pyrene
Concen: 52.730 ng
RT: 17.080 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:276 Resp: 679247

Ion	Ratio	Lower	Upper
276	100		
138	24.5	19.9	29.9
277	25.3	20.2	30.2

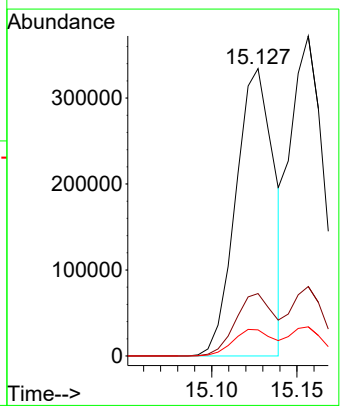


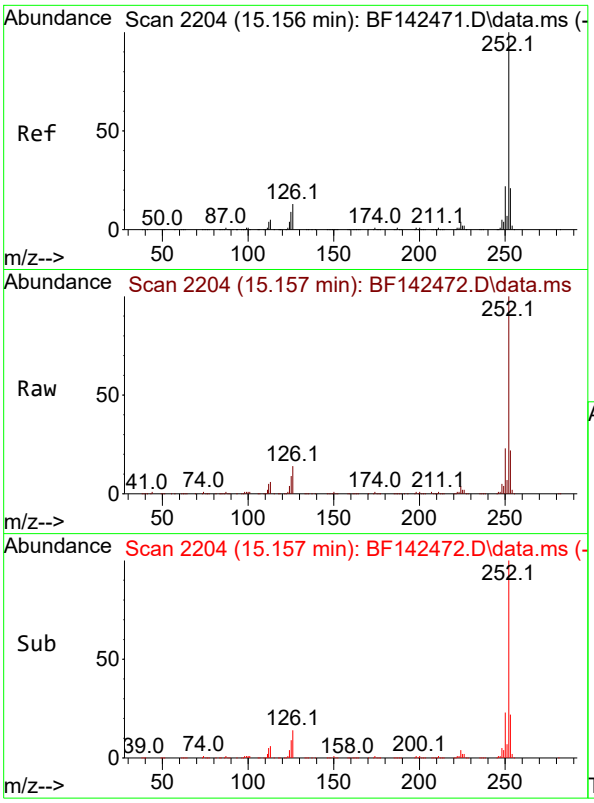


#88
Benzo(b)fluoranthene
Concen: 51.062 ng
RT: 15.127 min Scan# 2199
Delta R.T. 0.000 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:252 Resp: 518544

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.0	25.4
125	9.1	7.4	11.0



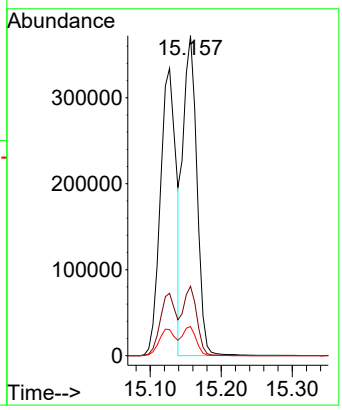


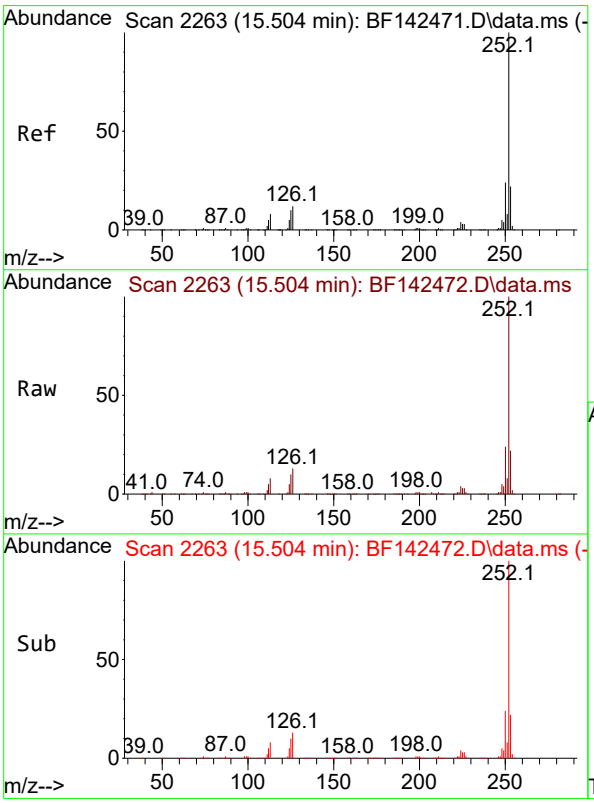
#89
Benzo(k)fluoranthene
Concen: 53.130 ng
RT: 15.157 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:252 Resp: 505348

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.0	25.4
125	9.1	7.3	10.9

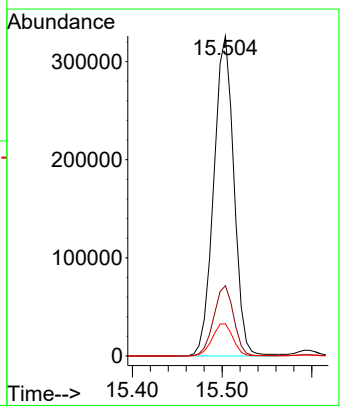


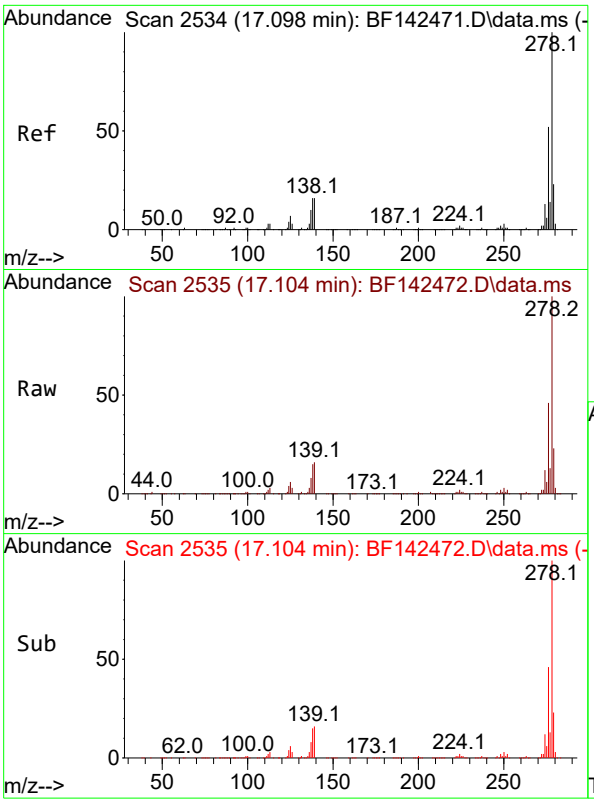


#90
Benzo(a)pyrene
Concen: 53.101 ng
RT: 15.504 min Scan# 2263
Delta R.T. -0.006 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:252 Resp: 508303

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0
125	10.0	7.9	11.9



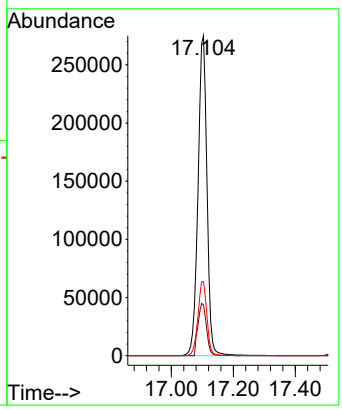


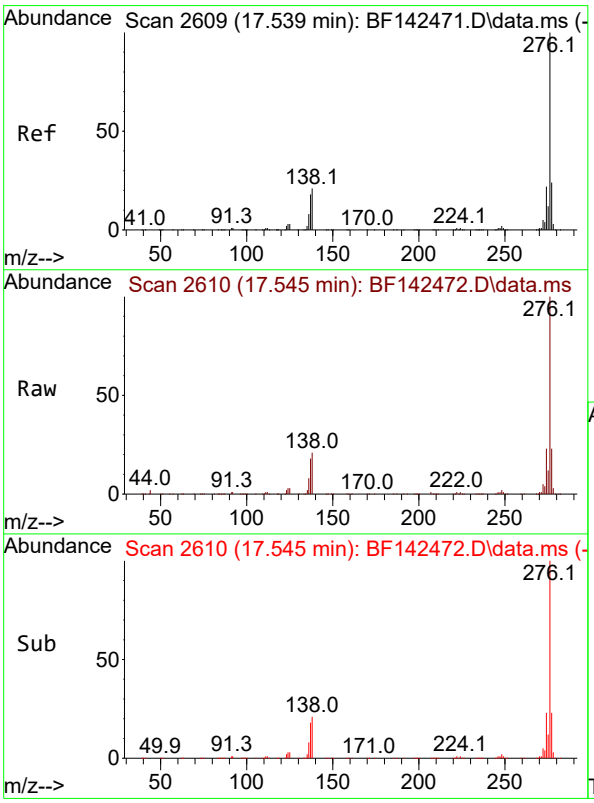
#91
Dibenzo(a,h)anthracene
Concen: 52.964 ng
RT: 17.104 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:278 Resp: 553351

Ion	Ratio	Lower	Upper
278	100		
139	15.9	12.8	19.2
279	23.2	18.6	28.0

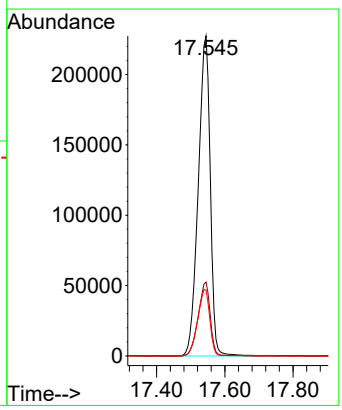




#92
Benzo(g,h,i)perylene
Concen: 53.328 ng
RT: 17.545 min Scan# 2610
Delta R.T. -0.012 min
Lab File: BF142472.D
Acq: 20 May 2025 14:34

Tgt Ion:276 Resp: 557271

Ion	Ratio	Lower	Upper
276	100		
277	23.1	19.2	28.8
138	20.5	16.8	25.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142473.D
Acq On : 20 May 2025 15:03
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: May 20 16:55:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.904	152	91151	20.000	ng		0.00
21) Naphthalene-d8	8.187	136	354160	20.000	ng		0.00
39) Acenaphthene-d10	9.945	164	187285	20.000	ng		0.00
64) Phenanthrene-d10	11.428	188	292190	20.000	ng		0.00
76) Chrysene-d12	14.074	240	143579	20.000	ng		0.00
86) Perylene-d12	15.563	264	183052	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	636815	117.703	ng		0.00
7) Phenol-d6	6.528	99	767355	117.823	ng		0.00
23) Nitrobenzene-d5	7.469	82	771758	118.825	ng		0.00
42) 2,4,6-Tribromophenol	10.733	330	244491	117.621	ng		0.00
45) 2-Fluorobiphenyl	9.263	172	1569136	112.426	ng		0.00
79) Terphenyl-d14	13.016	244	1151893	109.634	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.669	88	132790	61.335	ng		98
3) Pyridine	3.440	79	337570	61.229	ng		99
4) n-Nitrosodimethylamine	3.393	42	178276	62.278	ng		100
6) Aniline	6.563	93	522409	59.656	ng		99
8) 2-Chlorophenol	6.687	128	351459	59.640	ng		99
9) Benzaldehyde	6.451	77	207213	52.898	ng		99
10) Phenol	6.545	94	436789	59.604	ng		95
11) bis(2-Chloroethyl)ether	6.640	93	316232	59.948	ng		100
12) 1,3-Dichlorobenzene	6.845	146	384777	58.514	ng		99
13) 1,4-Dichlorobenzene	6.922	146	390981	59.027	ng		99
14) 1,2-Dichlorobenzene	7.075	146	370996	58.534	ng		99
15) Benzyl Alcohol	7.040	79	293457	60.973	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.175	45	519064	58.593	ng		99
17) 2-Methylphenol	7.151	107	277466	60.306	ng		99
18) Hexachloroethane	7.416	117	135953	58.780	ng		99
19) n-Nitroso-di-n-propyla...	7.322	70	236814	58.671	ng		98
20) 3+4-Methylphenols	7.304	107	341788	58.010	ng	#	87
22) Acetophenone	7.316	105	454226	57.937	ng		99
24) Nitrobenzene	7.487	77	351378	59.984	ng		98
25) Isophorone	7.728	82	644818	59.381	ng		99
26) 2-Nitrophenol	7.798	139	193662	61.872	ng		98
27) 2,4-Dimethylphenol	7.834	122	331159	59.994	ng		99
28) bis(2-Chloroethoxy)met...	7.934	93	398177	58.699	ng		99
29) 2,4-Dichlorophenol	8.045	162	300754	59.913	ng		98
30) 1,2,4-Trichlorobenzene	8.128	180	318487	58.460	ng		99
31) Naphthalene	8.210	128	1012926	58.085	ng		99
32) Benzoic acid	7.957	122	221962	66.059	ng		99
33) 4-Chloroaniline	8.257	127	421281	59.619	ng		99
34) Hexachlorobutadiene	8.328	225	203527	59.831	ng		99
35) Caprolactam	8.634	113	82688	58.650	ng		100
36) 4-Chloro-3-methylphenol	8.734	107	305341	59.352	ng		99
37) 2-Methylnaphthalene	8.898	142	635148	57.893	ng		100
38) 1-Methylnaphthalene	8.998	142	649652	57.247	ng		100
40) 1,2,4,5-Tetrachloroben...	9.063	216	321732	59.844	ng		99
41) Hexachlorocyclopentadiene	9.051	237	238708	65.820	ng		99
43) 2,4,6-Trichlorophenol	9.175	196	217868	60.098	ng		97

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142473.D
Acq On : 20 May 2025 15:03
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: May 20 16:55:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.216	196	229079	59.916	ng	99
46) 1,1'-Biphenyl	9.363	154	846783	58.279	ng	99
47) 2-Chloronaphthalene	9.392	162	630647	58.746	ng	99
48) 2-Nitroaniline	9.481	65	186466	60.093	ng	98
49) Acenaphthylene	9.804	152	1058826	58.411	ng	100
50) Dimethylphthalate	9.669	163	705857	57.119	ng	100
51) 2,6-Dinitrotoluene	9.728	165	157884	59.195	ng	99
52) Acenaphthene	9.981	154	643773	58.160	ng	99
53) 3-Nitroaniline	9.898	138	171137	58.746	ng	99
54) 2,4-Dinitrophenol	9.998	184	89741	65.126	ng	88
55) Dibenzofuran	10.151	168	918703	57.677	ng	100
56) 4-Nitrophenol	10.045	139	128501	59.782	ng	96
57) 2,4-Dinitrotoluene	10.128	165	209035	60.012	ng	100
58) Fluorene	10.492	166	695462	56.516	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.263	232	187067	58.609	ng	98
60) Diethylphthalate	10.363	149	684259	56.695	ng	100
61) 4-Chlorophenyl-phenyle...	10.481	204	343838	56.880	ng	98
62) 4-Nitroaniline	10.510	138	148755	56.302	ng	99
63) Azobenzene	10.645	77	631137	58.221	ng	99
65) 4,6-Dinitro-2-methylph...	10.539	198	109172	66.950	ng	98
66) n-Nitrosodiphenylamine	10.604	169	608394	60.861	ng	100
67) 4-Bromophenyl-phenylether	10.975	248	212638	61.546	ng	99
68) Hexachlorobenzene	11.039	284	229917	60.168	ng	98
69) Atrazine	11.128	200	158234	59.604	ng	100
70) Pentachlorophenol	11.233	266	137347	63.663	ng	99
71) Phenanthrene	11.457	178	905073	57.961	ng	100
72) Anthracene	11.510	178	918369	57.627	ng	99
73) Carbazole	11.663	167	769151	56.455	ng	100
74) Di-n-butylphthalate	11.986	149	853524	57.234	ng	100
75) Fluoranthene	12.645	202	789533	54.112	ng	99
77) Benzidine	12.763	184	300547	56.251	ng	100
78) Pyrene	12.874	202	763672	57.017	ng	100
80) Butylbenzylphthalate	13.492	149	236758	63.972	ng	97
81) Benzo(a)anthracene	14.063	228	571607	59.620	ng	99
82) 3,3'-Dichlorobenzidine	14.021	252	190415	65.480	ng	100
83) Chrysene	14.098	228	526831	61.153	ng	100
84) Bis(2-ethylhexyl)phtha...	14.051	149	334950	70.698	ng	98
85) Di-n-octyl phthalate	14.663	149	664220	71.701	ng	100
87) Indeno(1,2,3-cd)pyrene	17.086	276	848752	61.761	ng	100
88) Benzo(b)fluoranthene	15.127	252	616210	56.878	ng	99
89) Benzo(k)fluoranthene	15.157	252	619660	61.068	ng	98
90) Benzo(a)pyrene	15.504	252	622347	60.943	ng	99
91) Dibenzo(a,h)anthracene	17.104	278	683473	61.321	ng	99
92) Benzo(g,h,i)perylene	17.545	276	683528	61.313	ng	99

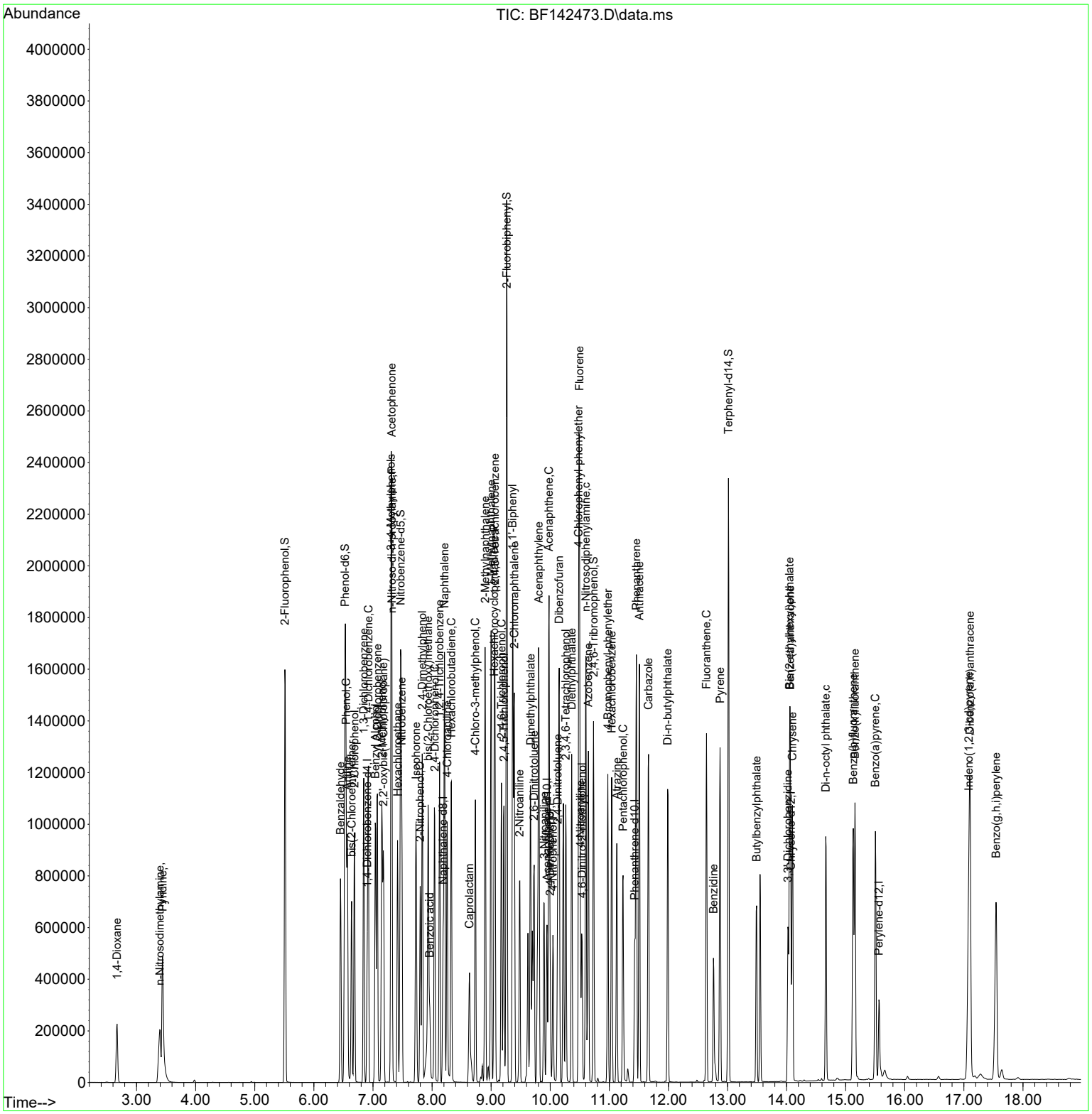
(#) = qualifier out of range (m) = manual integration (+) = signals summed

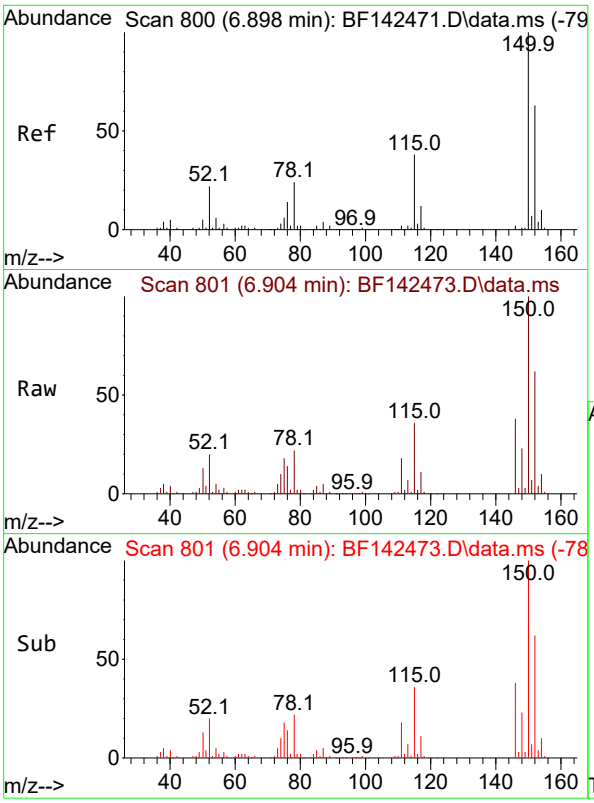
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142473.D
Acq On : 20 May 2025 15:03
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: May 20 16:55:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



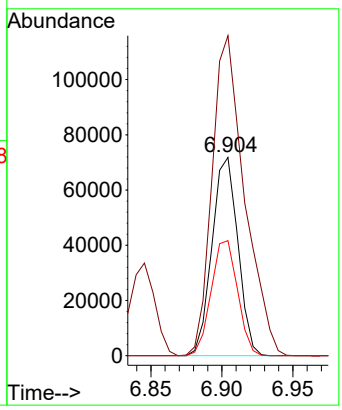


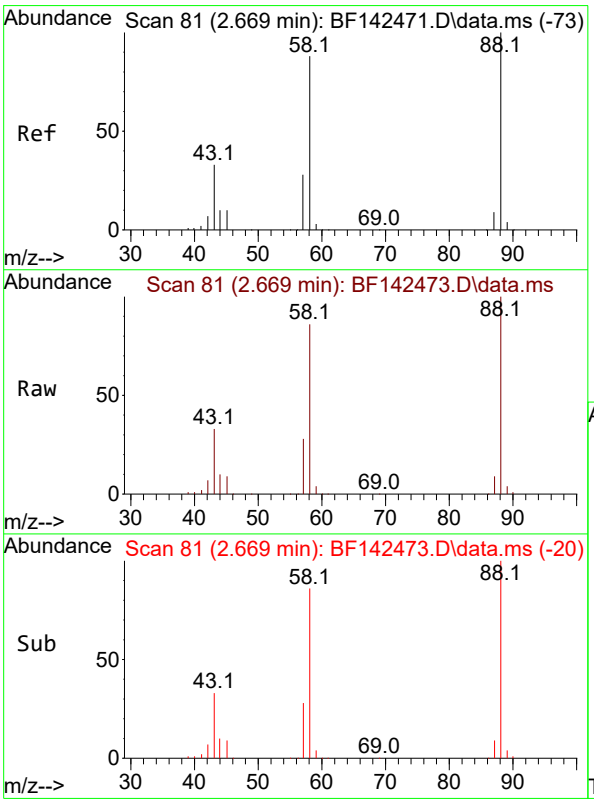
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.904 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 91151

Ion	Ratio	Lower	Upper
152	100		
150	161.4	128.2	192.4
115	58.0	48.3	72.5

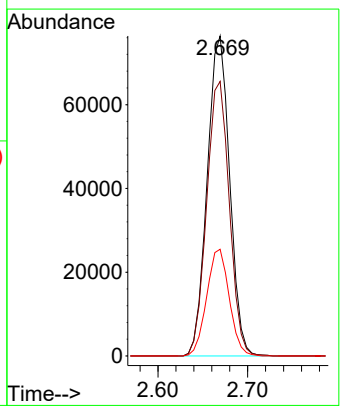


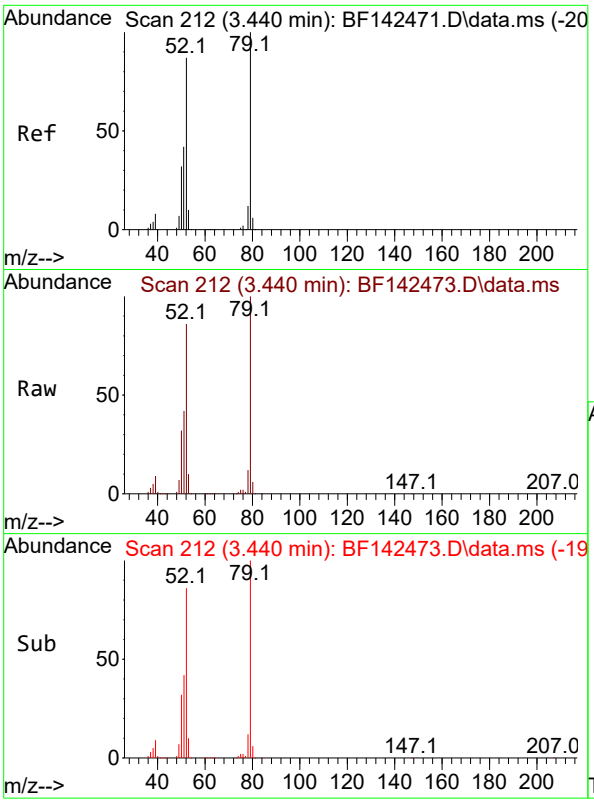


#2
1,4-Dioxane
Concen: 61.335 ng
RT: 2.669 min Scan# 81
Delta R.T. 0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion: 88 Resp: 132790

Ion	Ratio	Lower	Upper
88	100		
58	86.7	70.8	106.2
43	33.5	26.6	40.0



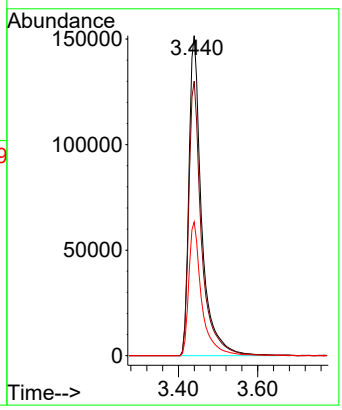


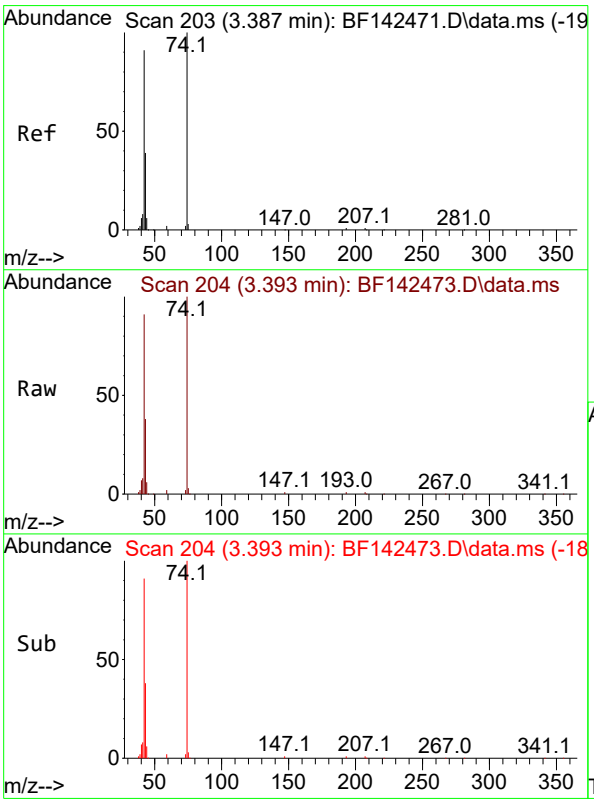
#3
Pyridine
Concen: 61.229 ng
RT: 3.440 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 337570

Ion	Ratio	Lower	Upper
79	100		
52	85.7	69.2	103.8
51	41.8	33.3	49.9

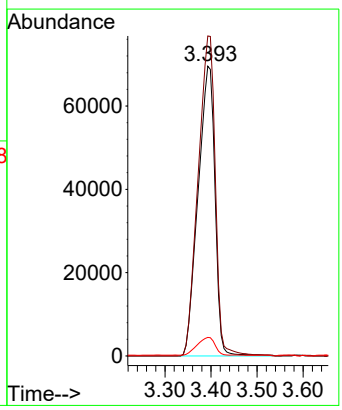


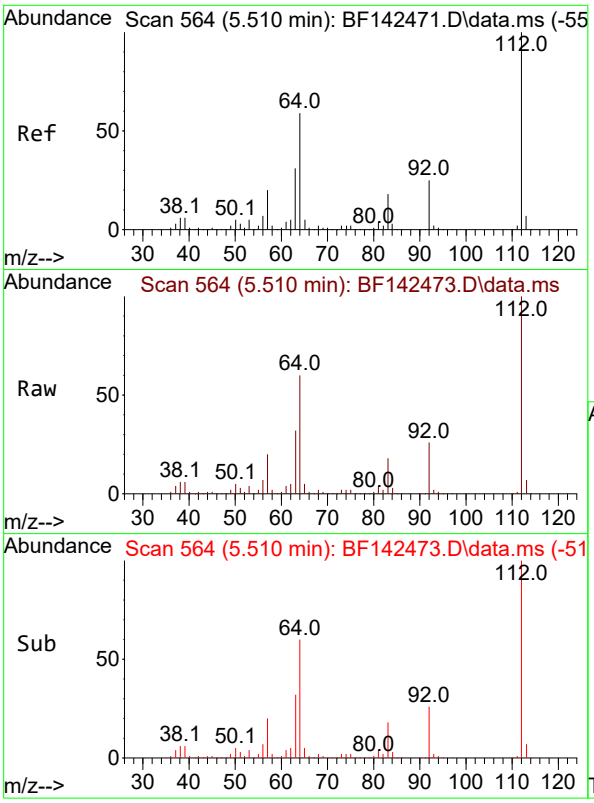


#4
n-Nitrosodimethylamine
Concen: 62.278 ng
RT: 3.393 min Scan# 204
Delta R.T. -0.012 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion: 42 Resp: 178276

Ion	Ratio	Lower	Upper
42	100		
74	110.4	88.2	132.4
44	6.4	5.4	8.2



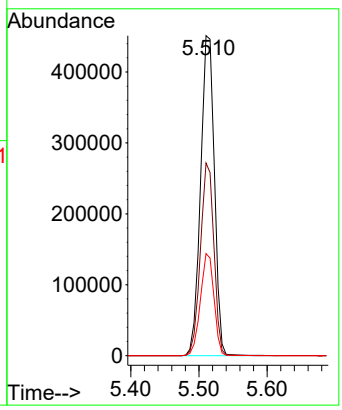


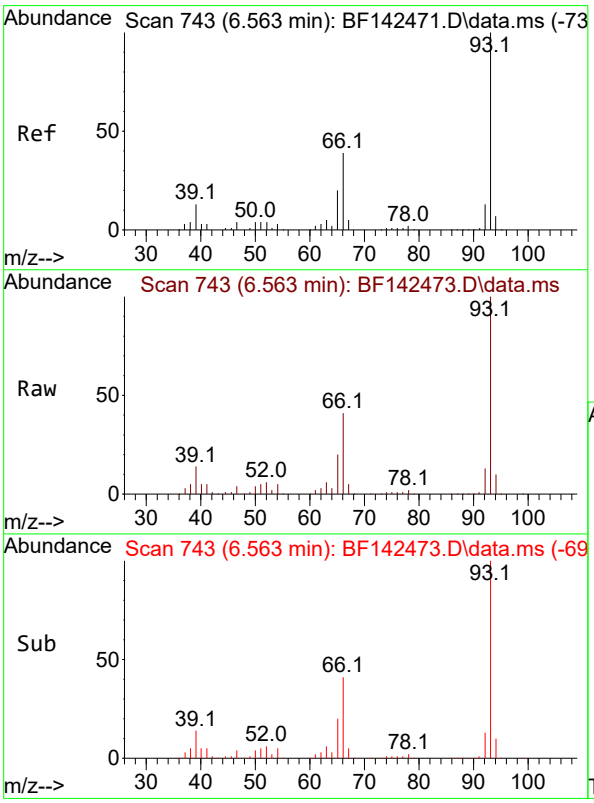
#5
2-Fluorophenol
Concen: 117.703 ng
RT: 5.510 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:112 Resp: 636815

Ion	Ratio	Lower	Upper
112	100		
64	60.2	47.5	71.3
63	31.9	24.9	37.3

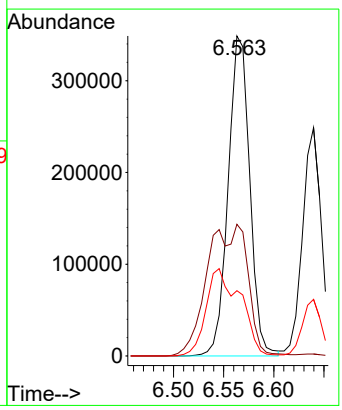


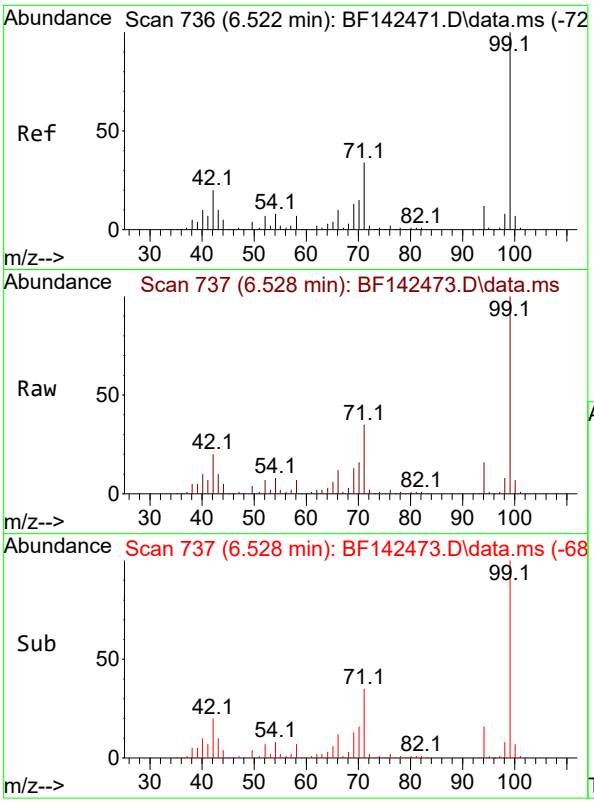


#6
Aniline
Concen: 59.656 ng
RT: 6.563 min Scan# 743
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion: 93 Resp: 522409

Ion	Ratio	Lower	Upper
93	100		
66	41.2	32.0	48.0
65	20.4	16.1	24.1



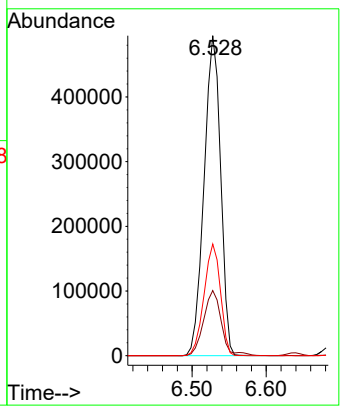


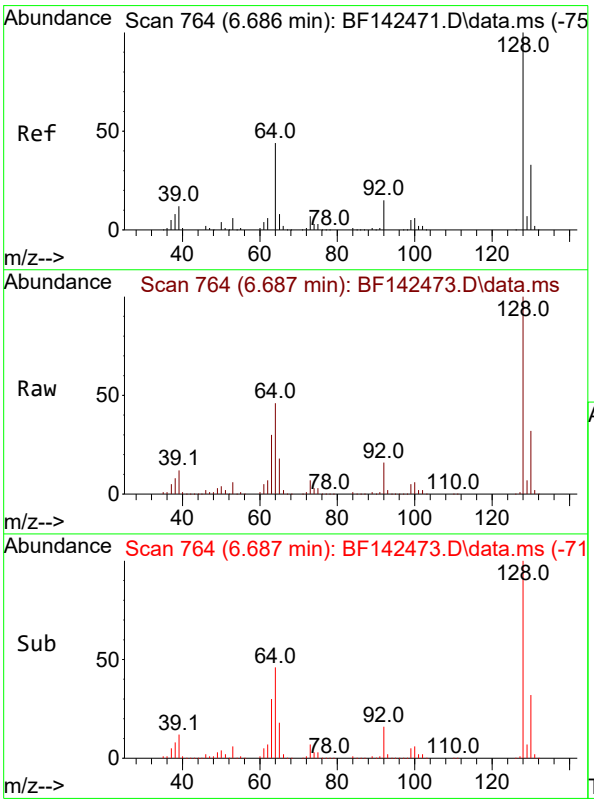
#7
Phenol-d6
Concen: 117.823 ng
RT: 6.528 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 99 Resp: 767355

Ion	Ratio	Lower	Upper
99	100		
42	20.4	16.2	24.2
71	34.9	27.3	40.9

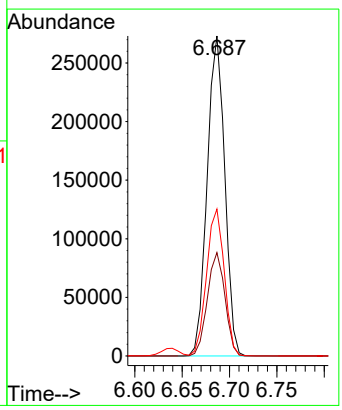


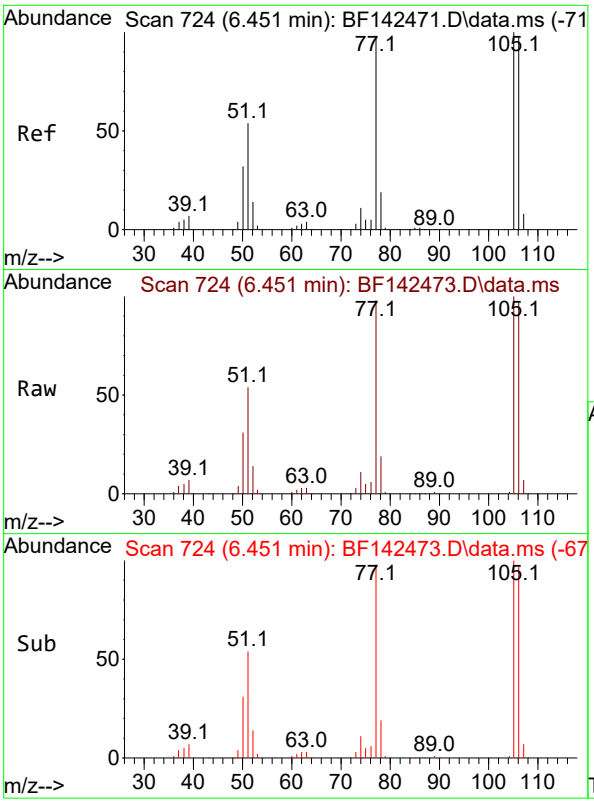


#8
2-Chlorophenol
Concen: 59.640 ng
RT: 6.687 min Scan# 764
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:128 Resp: 351459

Ion	Ratio	Lower	Upper
128	100		
130	32.3	12.6	52.6
64	45.9	25.1	65.1



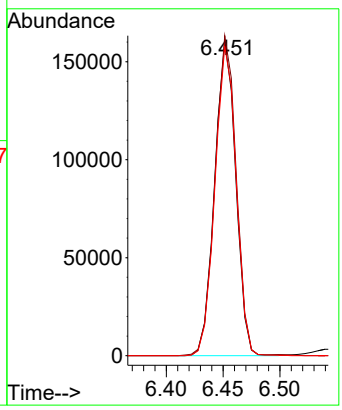


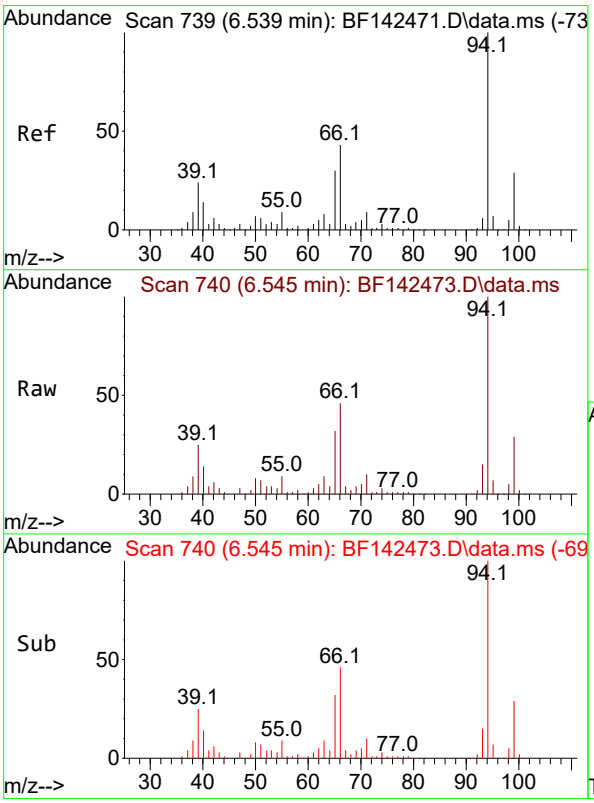
#9
Benzaldehyde
Concen: 52.898 ng
RT: 6.451 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 207213

Ion	Ratio	Lower	Upper
77	100		
105	101.7	82.5	122.5
106	98.3	80.0	120.0

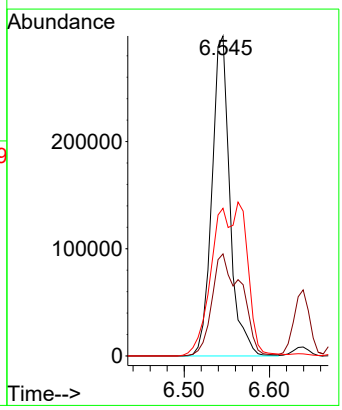


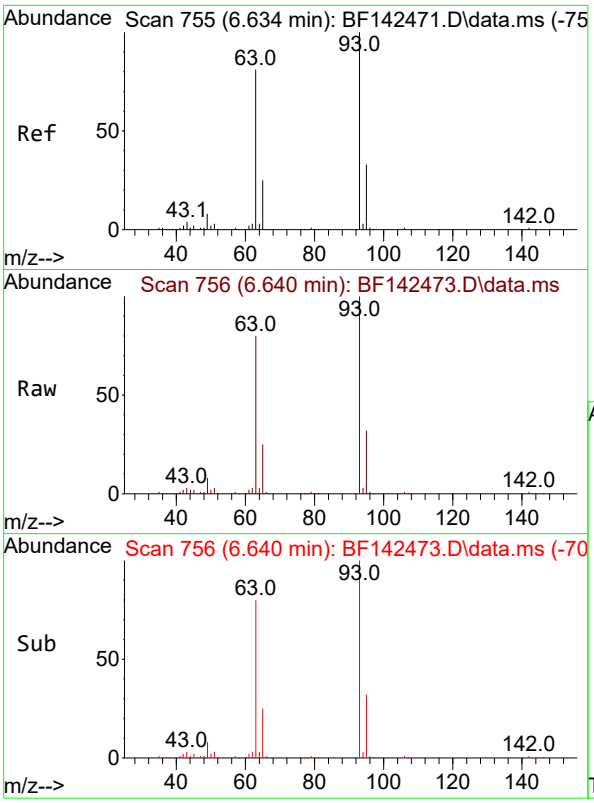


#10
Phenol
Concen: 59.604 ng
RT: 6.545 min Scan# 740
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion: 94 Resp: 436789

Ion	Ratio	Lower	Upper
94	100		
65	31.9	10.3	50.3
66	46.2	22.6	62.6



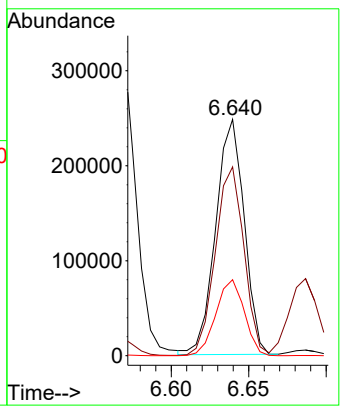


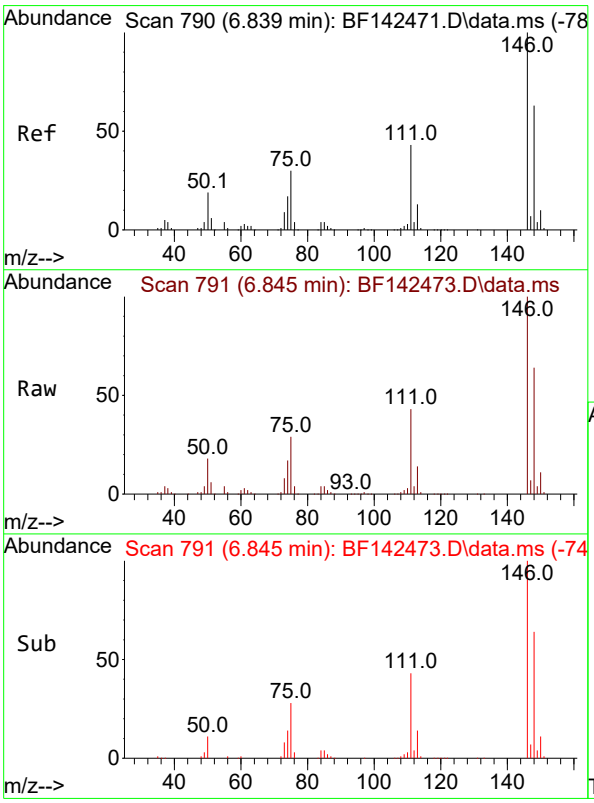
#11
bis(2-Chloroethyl)ether
Concen: 59.948 ng
RT: 6.640 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 93 Resp: 316232

Ion	Ratio	Lower	Upper
93	100		
63	79.9	60.2	100.2
95	32.2	12.3	52.3

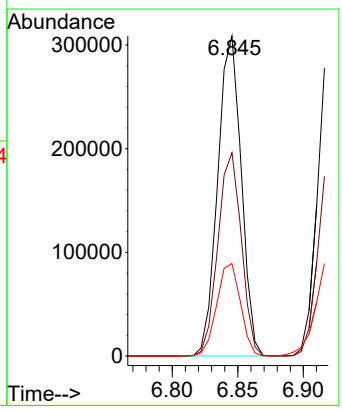


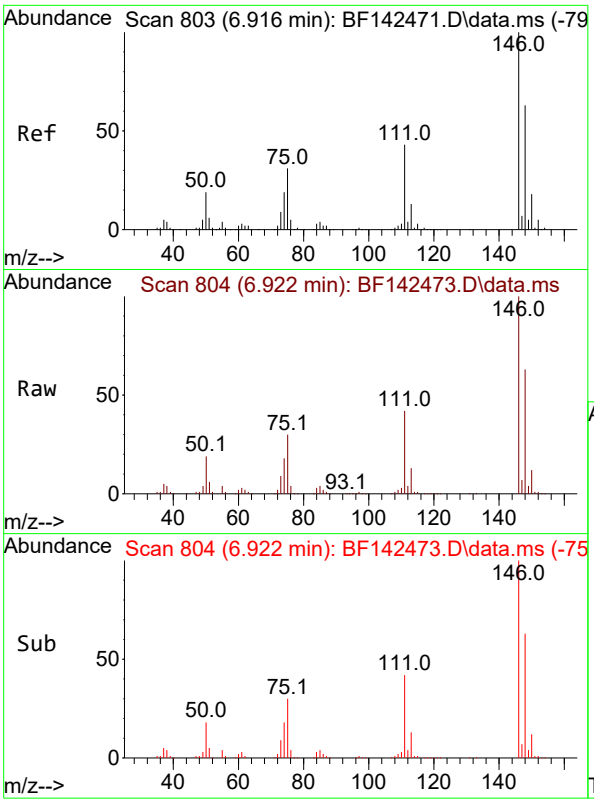


#12
1,3-Dichlorobenzene
Concen: 58.514 ng
RT: 6.845 min Scan# 791
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:146 Resp: 384777

Ion	Ratio	Lower	Upper
146	100		
148	63.6	50.6	75.8
75	28.9	23.8	35.6



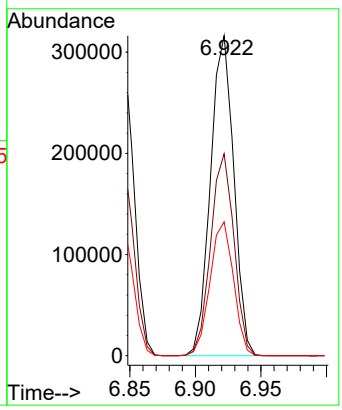


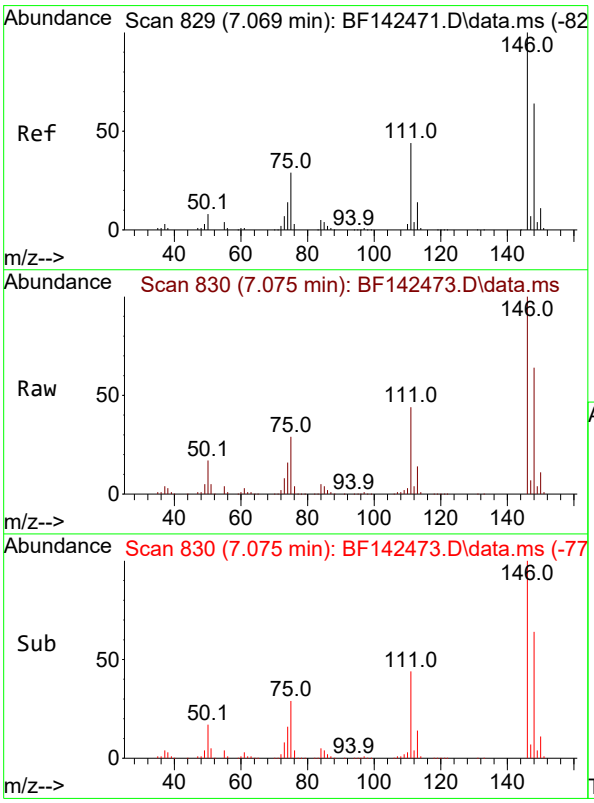
#13
1,4-Dichlorobenzene
Concen: 59.027 ng
RT: 6.922 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:146 Resp: 390981

Ion	Ratio	Lower	Upper
146	100		
148	63.1	50.4	75.6
111	41.8	34.1	51.1

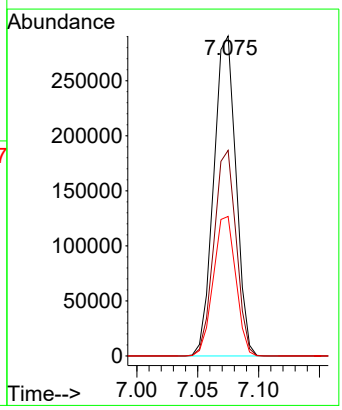


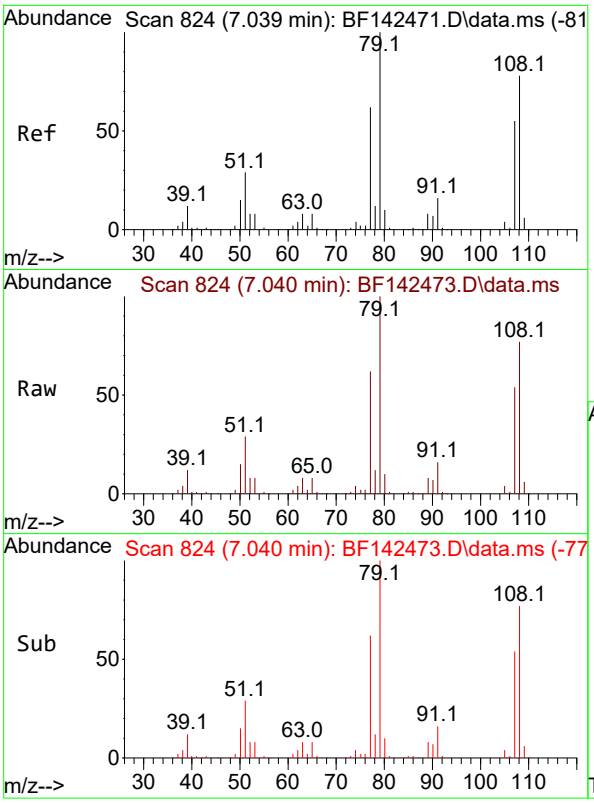


#14
1,2-Dichlorobenzene
Concen: 58.534 ng
RT: 7.075 min Scan# 830
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:146 Resp: 370996

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.0	76.4
111	43.6	35.0	52.6



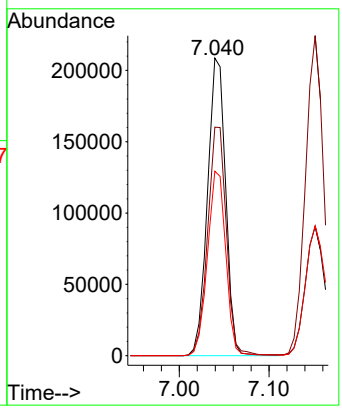


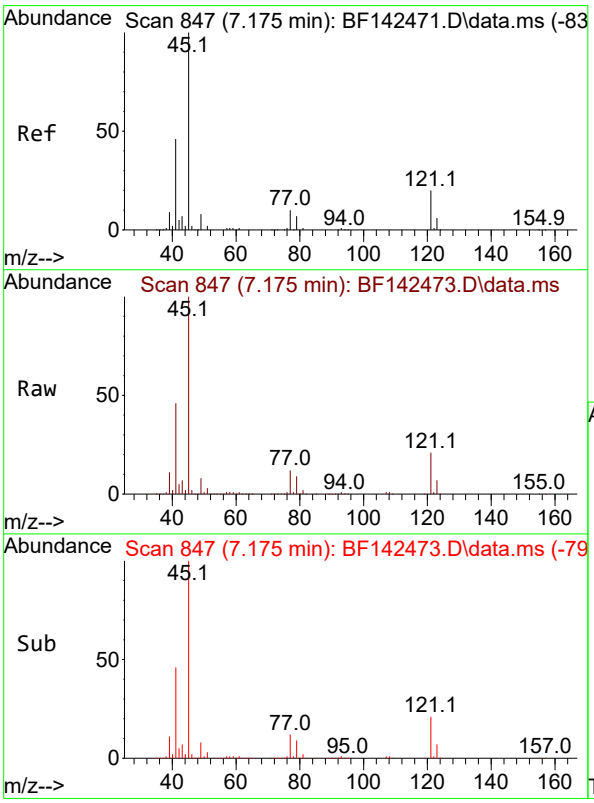
#15
Benzyl Alcohol
Concen: 60.973 ng
RT: 7.040 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 293457

Ion	Ratio	Lower	Upper
79	100		
108	76.8	62.1	93.1
77	62.0	49.5	74.3

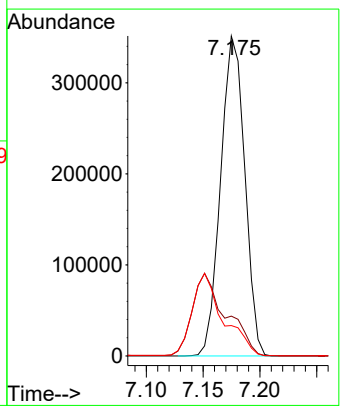


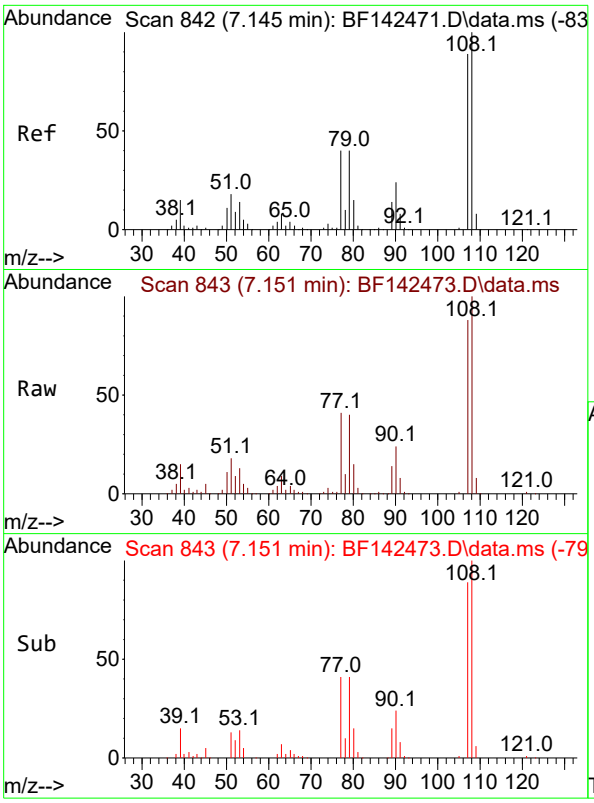


#16
2,2'-oxybis(1-Chloropropane)
Concen: 58.593 ng
RT: 7.175 min Scan# 847
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion: 45 Resp: 519064

Ion	Ratio	Lower	Upper
45	100		
77	12.5	0.0	32.0
79	9.5	0.0	29.2



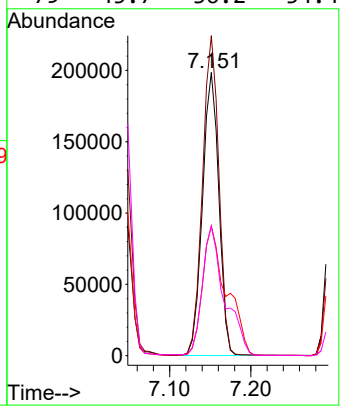


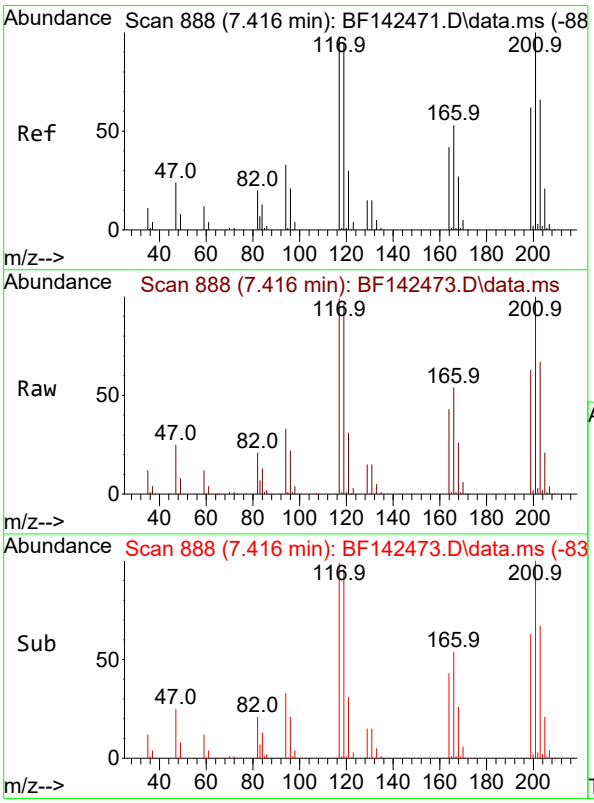
#17
2-Methylphenol
Concen: 60.306 ng
RT: 7.151 min Scan# 84
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:107 Resp: 277466

Ion	Ratio	Lower	Upper
107	100		
108	113.0	90.2	135.2
77	45.8	36.1	54.1
79	45.7	36.2	54.4

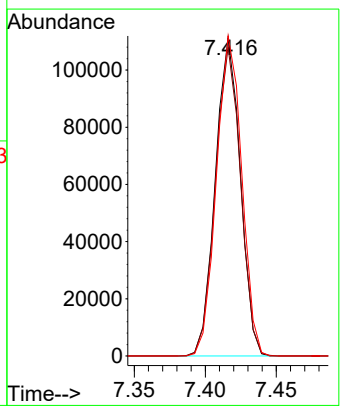


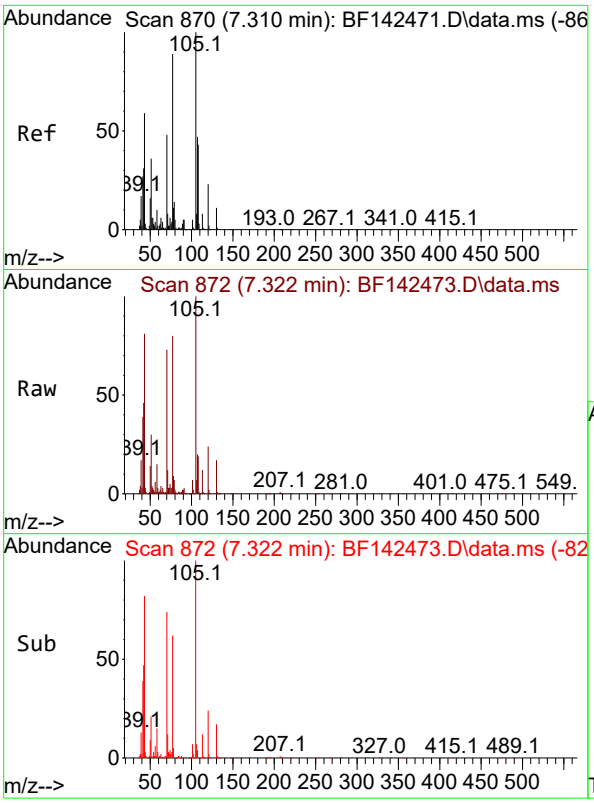


#18
Hexachloroethane
Concen: 58.780 ng
RT: 7.416 min Scan# 888
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:117 Resp: 135953

Ion	Ratio	Lower	Upper
117	100		
119	96.9	76.6	114.8
201	100.6	81.3	121.9



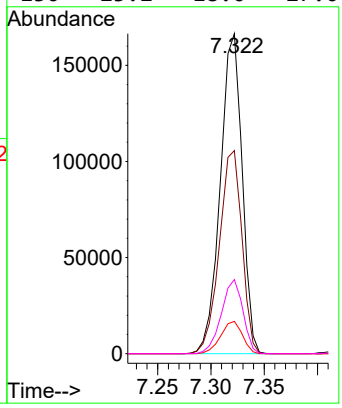


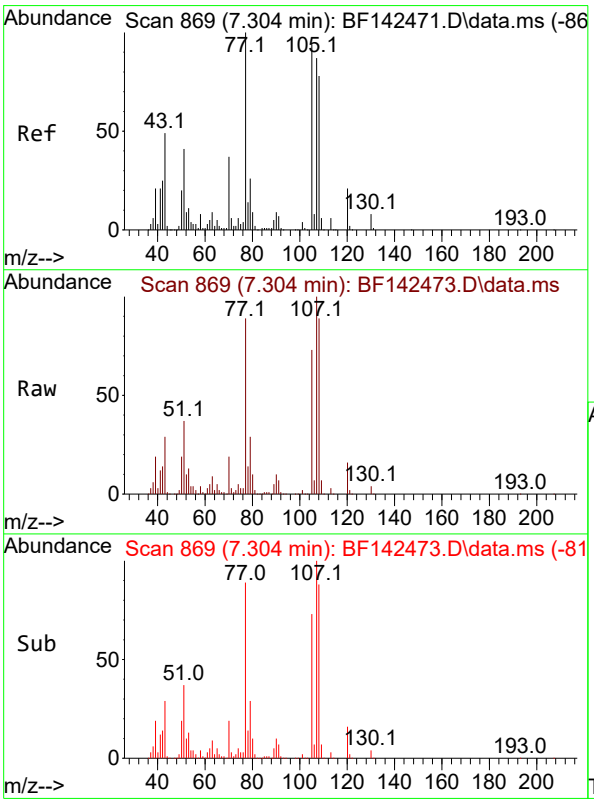
#19
n-Nitroso-di-n-propylamine
Concen: 58.671 ng
RT: 7.322 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 70 Resp: 236814

Ion	Ratio	Lower	Upper
70	100		
42	63.4	52.4	78.6
101	10.1	7.8	11.8
130	23.2	18.0	27.0

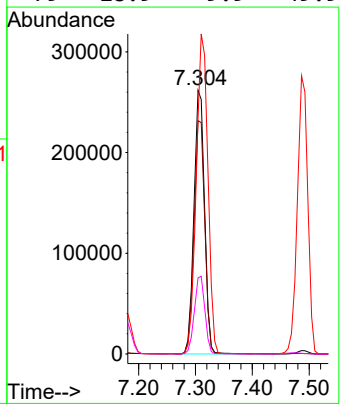


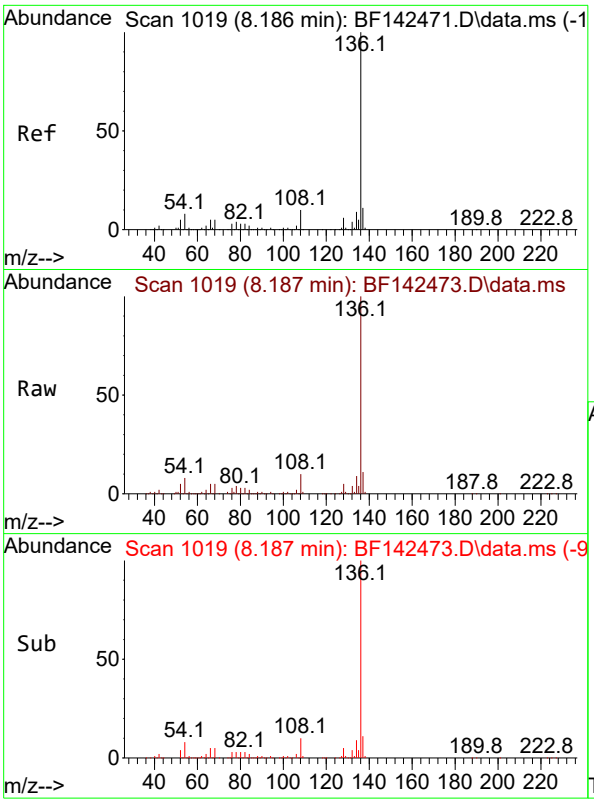


#20
3+4-Methylphenols
Concen: 58.010 ng
RT: 7.304 min Scan# 869
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:107 Resp: 341788

Ion	Ratio	Lower	Upper
107	100		
108	88.5	70.4	110.4
77	89.5	95.4	135.4#
79	28.9	9.9	49.9



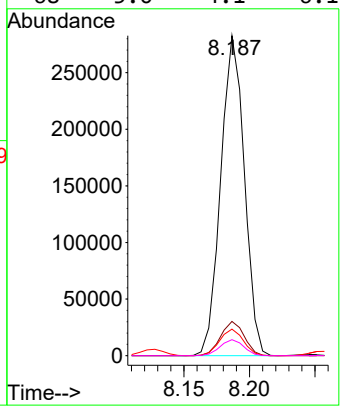


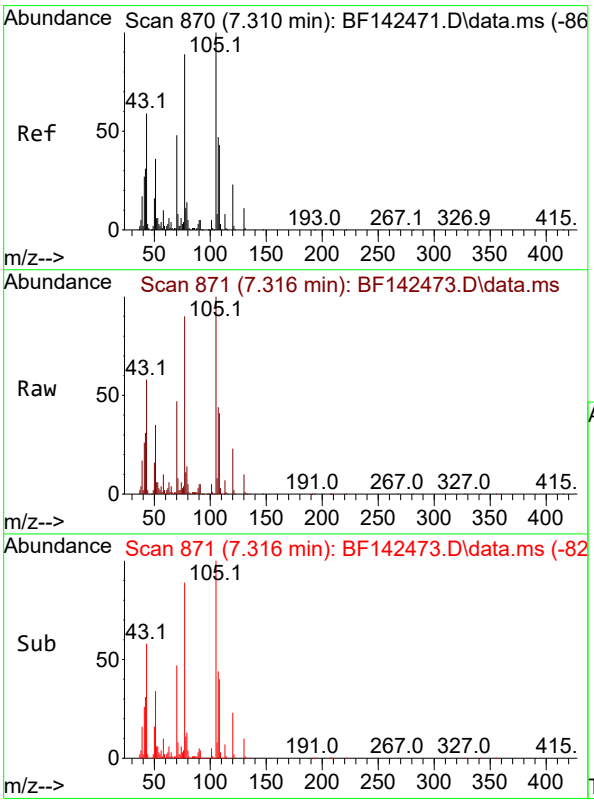
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.187 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:136 Resp: 354160

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	8.3	6.6	10.0
68	5.0	4.1	6.1

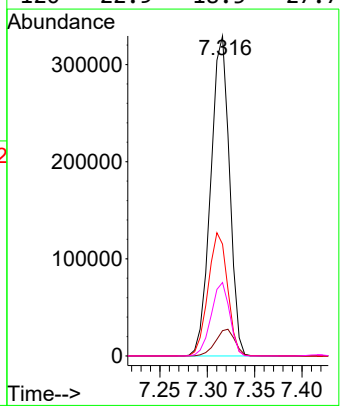


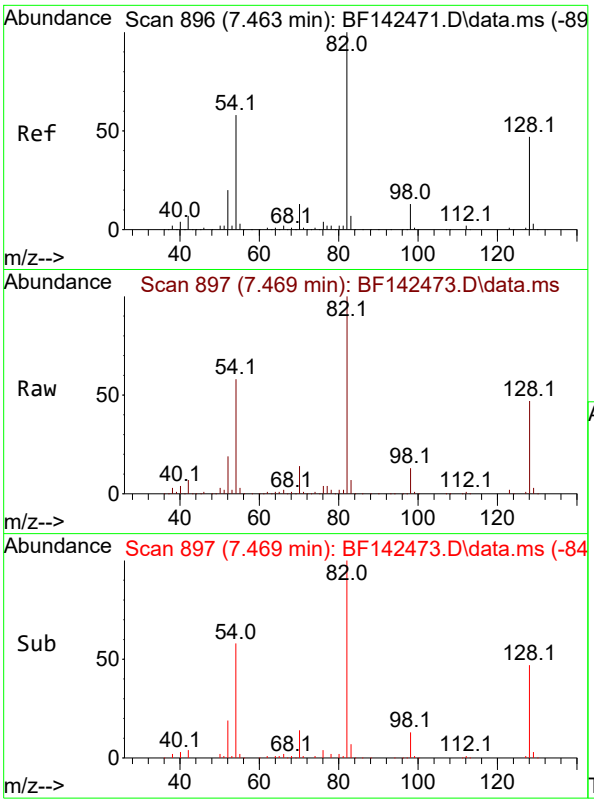


#22
Acetophenone
Concen: 57.937 ng
RT: 7.316 min Scan# 871
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:105 Resp: 454226

Ion	Ratio	Lower	Upper
105	100		
71	7.9	6.4	9.6
51	34.9	28.6	42.8
120	22.9	18.5	27.7



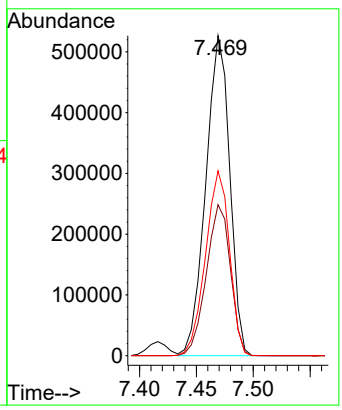


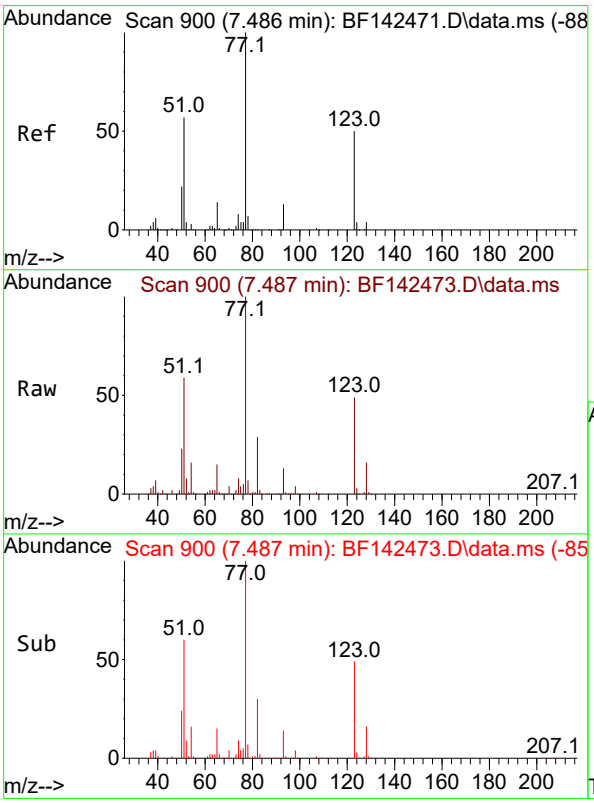
#23
Nitrobenzene-d5
Concen: 118.825 ng
RT: 7.469 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 771758

Ion	Ratio	Lower	Upper
82	100		
128	47.2	37.4	56.2
54	57.7	46.6	70.0

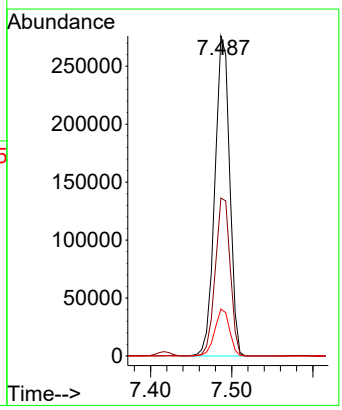


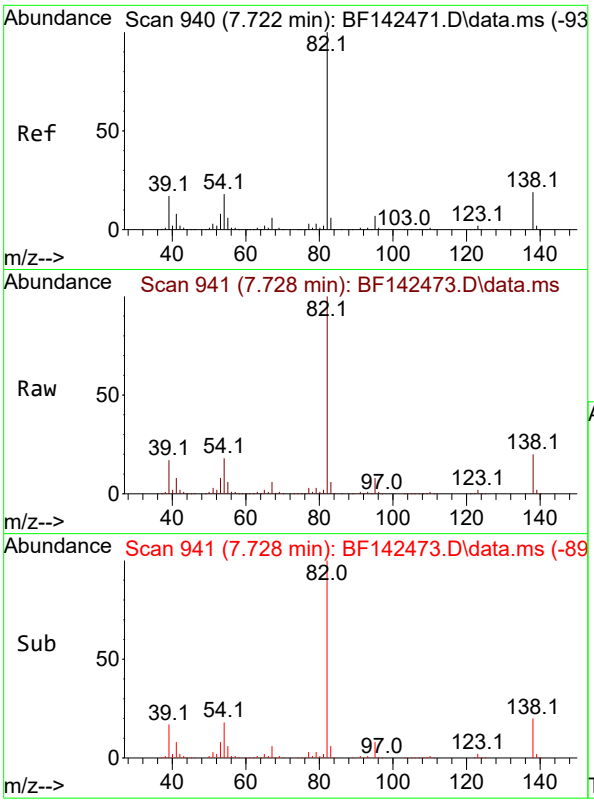


#24
Nitrobenzene
Concen: 59.984 ng
RT: 7.487 min Scan# 900
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion: 77 Resp: 351378

Ion	Ratio	Lower	Upper
77	100		
123	49.4	40.6	61.0
65	14.7	11.4	17.2



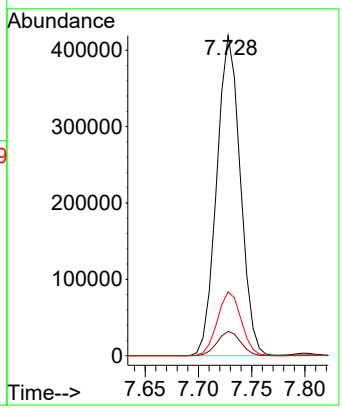


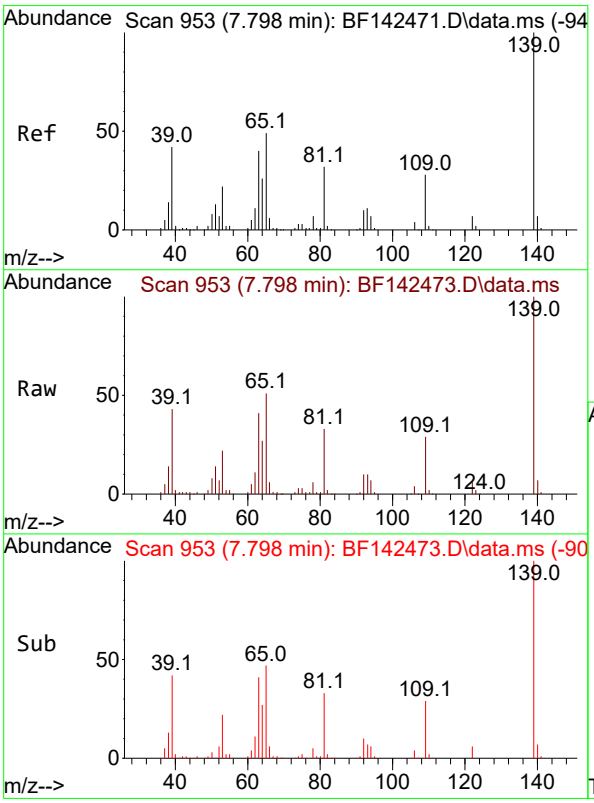
#25
Isophorone
Concen: 59.381 ng
RT: 7.728 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 644818

Ion	Ratio	Lower	Upper
82	100		
95	7.6	6.0	9.0
138	20.0	15.5	23.3

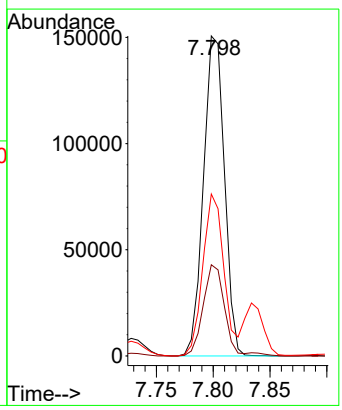


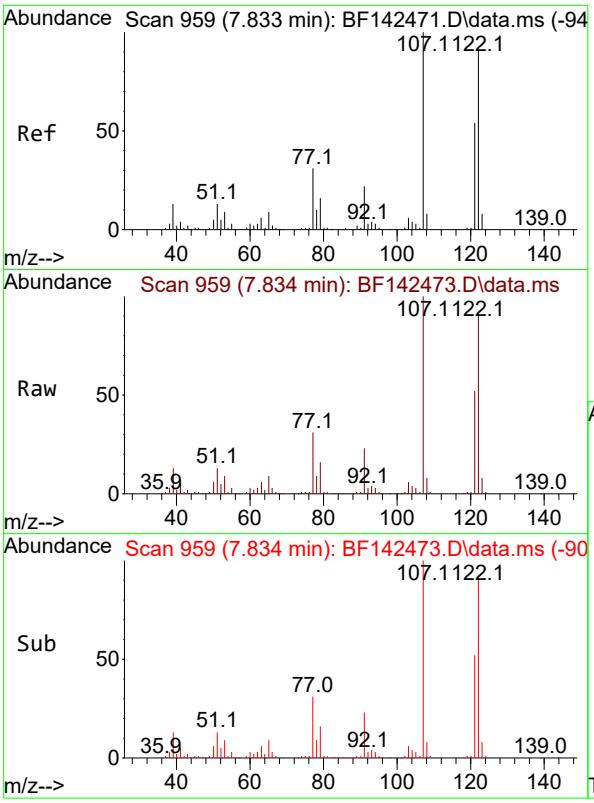


#26
2-Nitrophenol
Concen: 61.872 ng
RT: 7.798 min Scan# 953
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:139 Resp: 193662

Ion	Ratio	Lower	Upper
139	100		
109	28.5	22.6	33.8
65	50.6	39.4	59.0



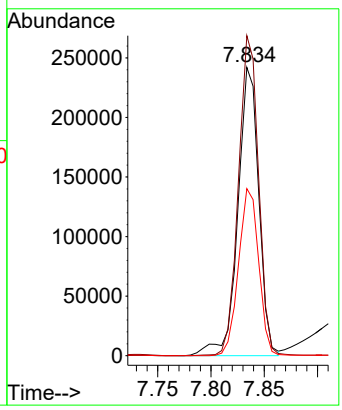


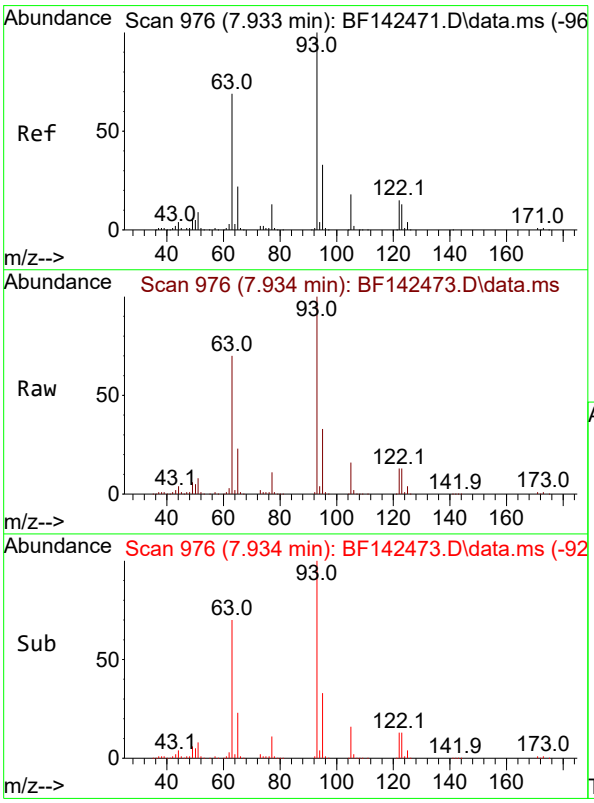
#27
2,4-Dimethylphenol
Concen: 59.994 ng
RT: 7.834 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:122 Resp: 331159

Ion	Ratio	Lower	Upper
122	100		
107	111.0	88.1	132.1
121	57.9	47.3	70.9

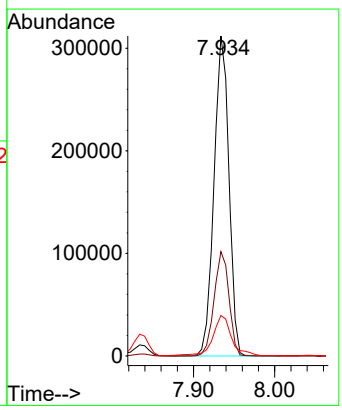


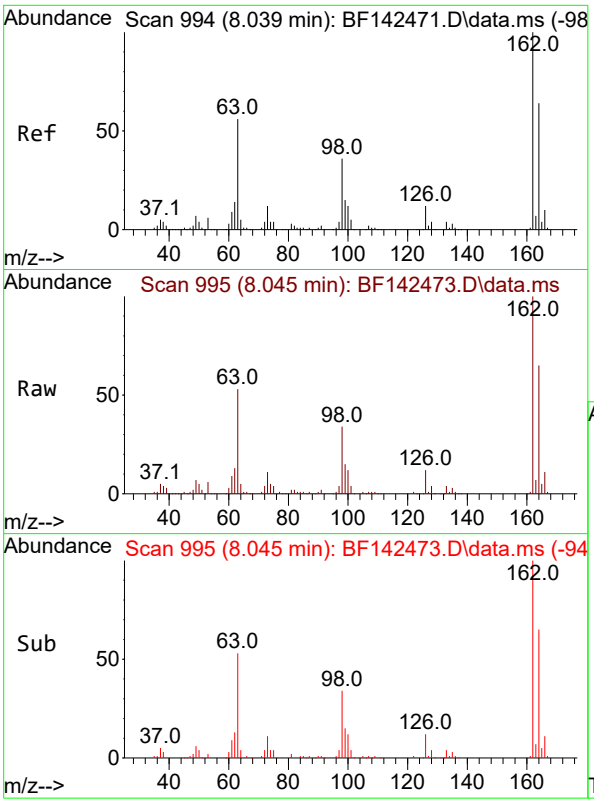


#28
bis(2-Chloroethoxy)methane
Concen: 58.699 ng
RT: 7.934 min Scan# 976
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion: 93 Resp: 398177

Ion	Ratio	Lower	Upper
93	100		
95	32.6	26.4	39.6
123	12.7	10.6	15.8



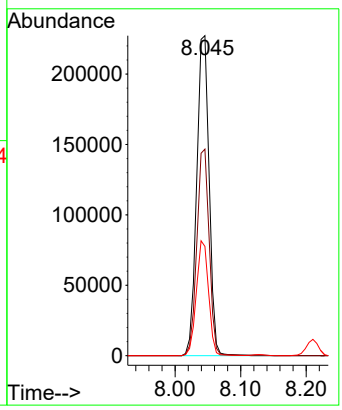


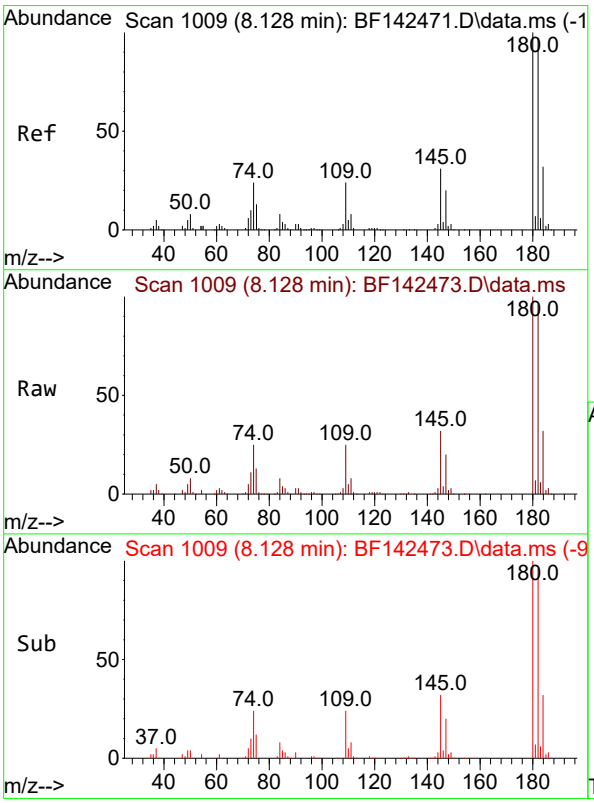
#29
2,4-Dichlorophenol
Concen: 59.913 ng
RT: 8.045 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 300754

Ion	Ratio	Lower	Upper
162	100		
164	64.6	43.7	83.7
98	34.1	15.5	55.5

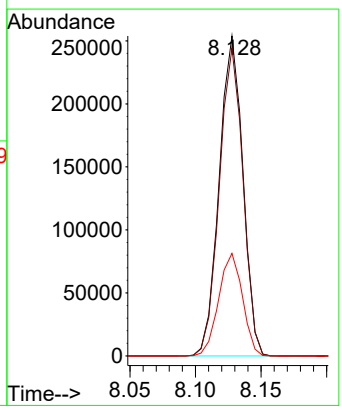


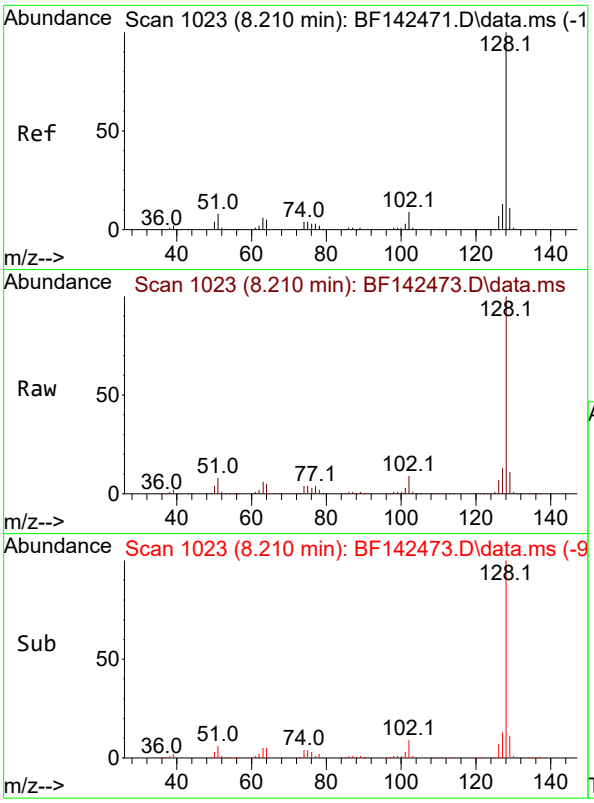


#30
1,2,4-Trichlorobenzene
Concen: 58.460 ng
RT: 8.128 min Scan# 1009
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:180 Resp: 318487

Ion	Ratio	Lower	Upper
180	100		
182	96.2	78.0	117.0
145	32.0	25.0	37.6



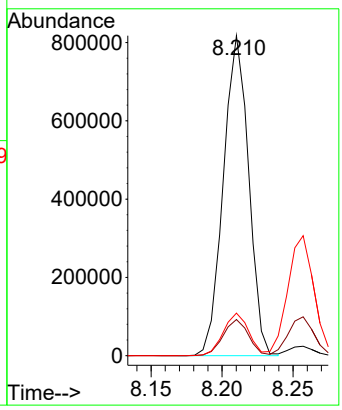


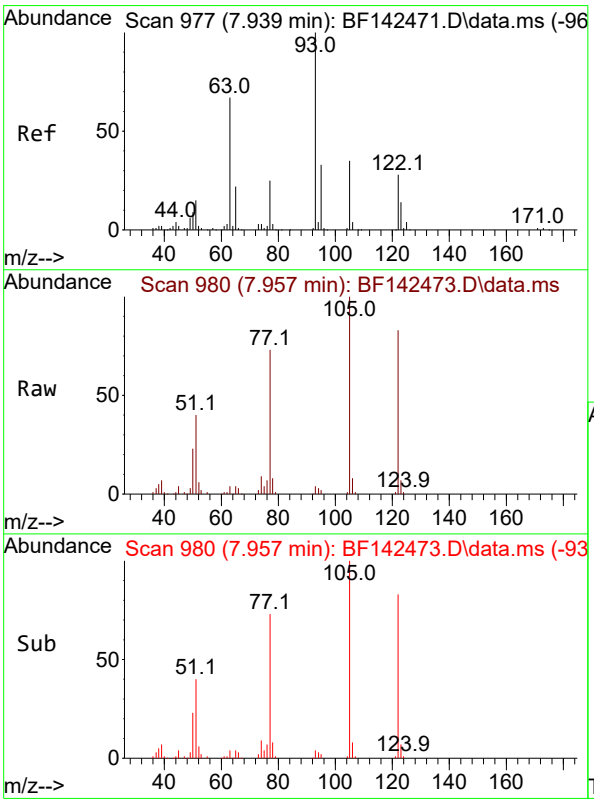
#31
Naphthalene
Concen: 58.085 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:128 Resp: 1012926

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.9	13.3
127	13.3	10.5	15.7

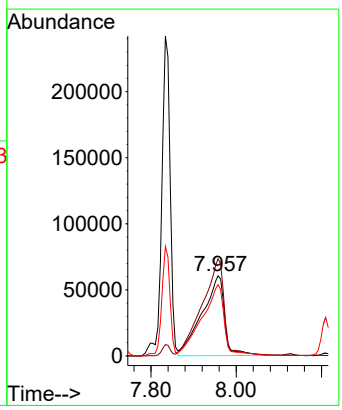


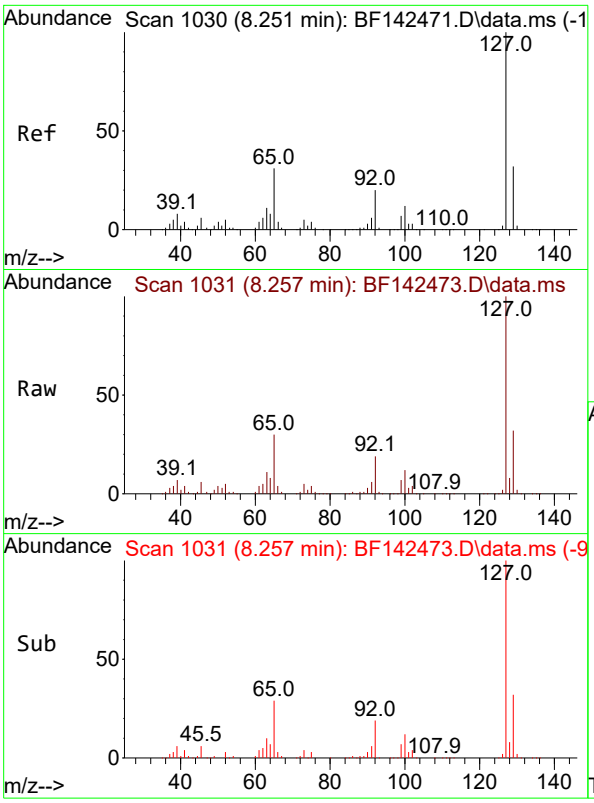


#32
Benzoic acid
Concen: 66.059 ng
RT: 7.957 min Scan# 980
Delta R.T. -0.018 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:122 Resp: 221962

Ion	Ratio	Lower	Upper
122	100		
105	121.2	101.7	141.7
77	88.9	69.5	109.5



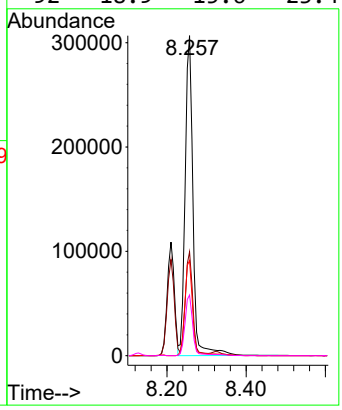


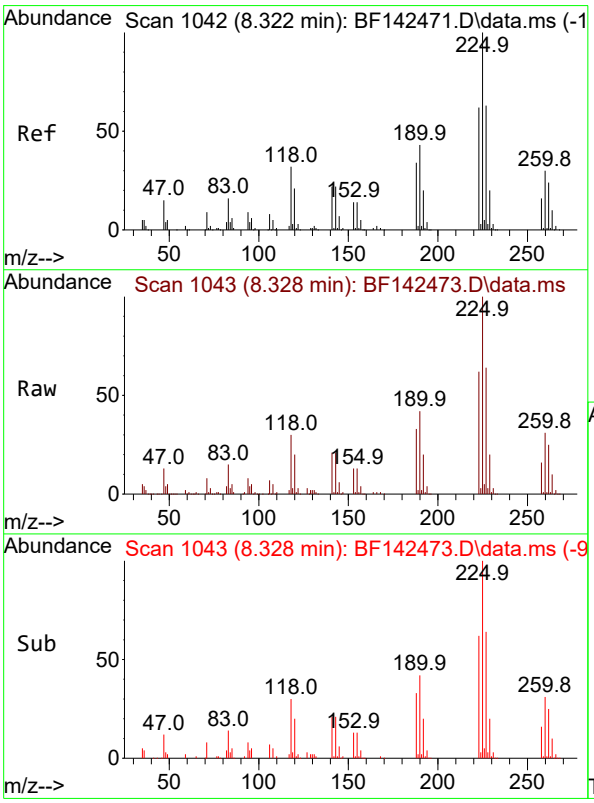
#33
4-Chloroaniline
Concen: 59.619 ng
RT: 8.257 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:127 Resp: 421281

Ion	Ratio	Lower	Upper
127	100		
129	32.4	26.1	39.1
65	29.7	24.9	37.3
92	18.9	15.6	23.4

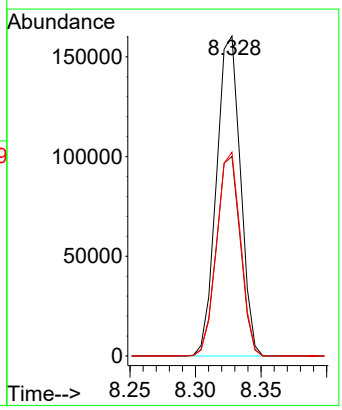


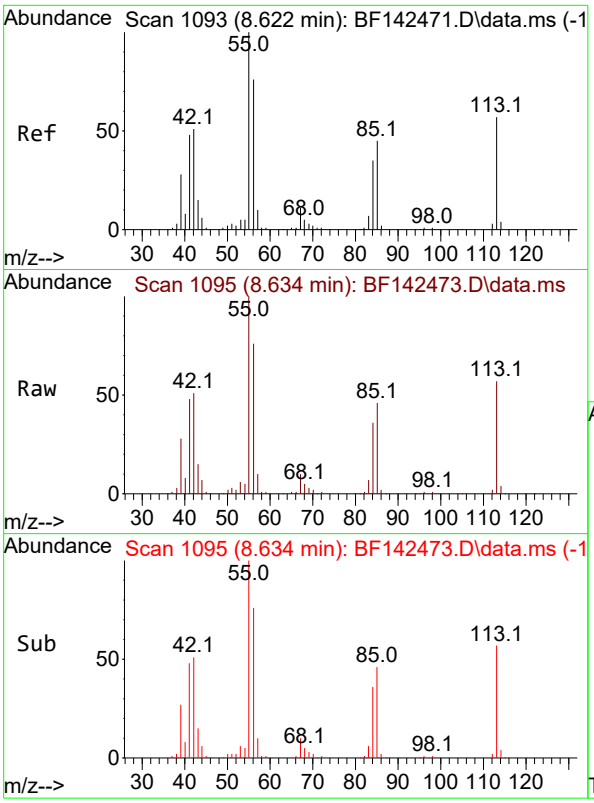


#34
Hexachlorobutadiene
Concen: 59.831 ng
RT: 8.328 min Scan# 1043
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:225 Resp: 203527

Ion	Ratio	Lower	Upper
225	100		
223	62.4	49.7	74.5
227	63.7	50.3	75.5



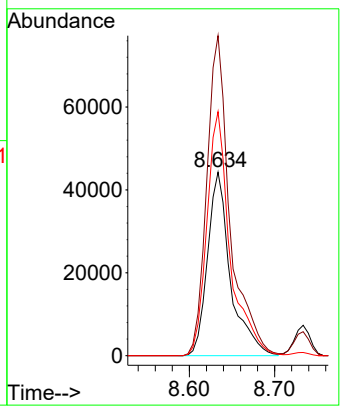


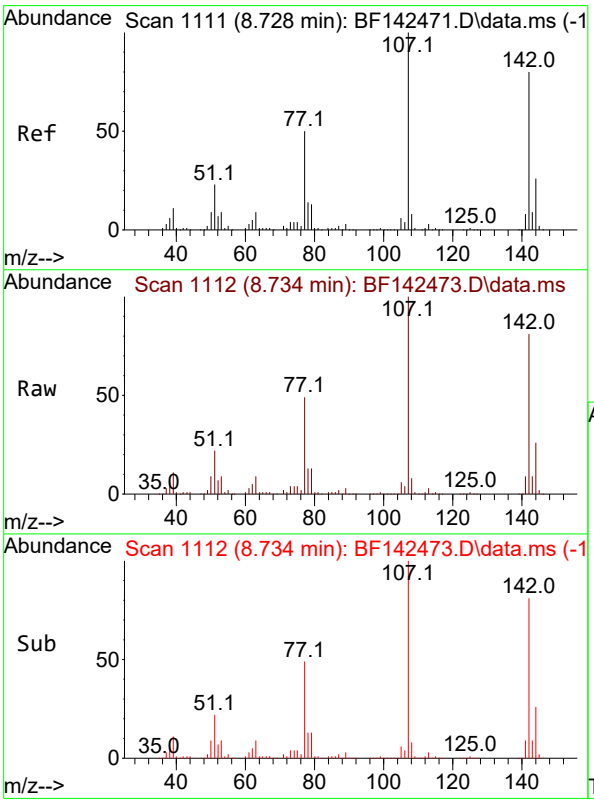
#35
Caprolactam
Concen: 58.650 ng
RT: 8.634 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:113 Resp: 82688

Ion	Ratio	Lower	Upper
113	100		
55	174.4	154.7	194.7
56	133.0	113.2	153.2

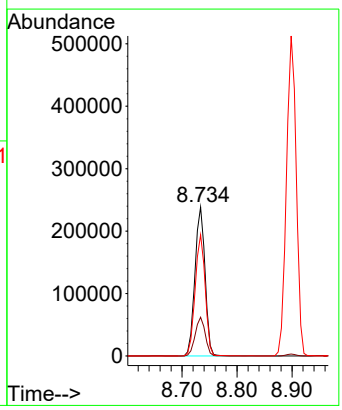


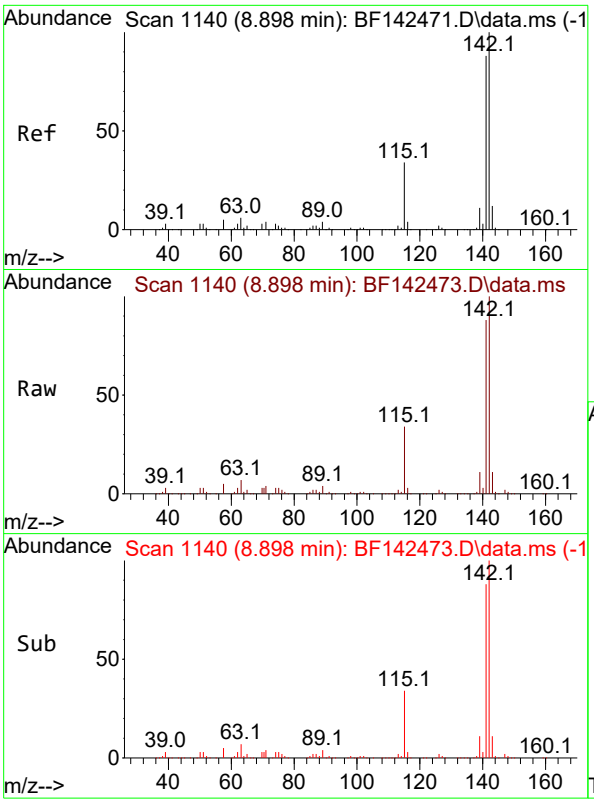


#36
4-Chloro-3-methylphenol
Concen: 59.352 ng
RT: 8.734 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:107 Resp: 305341

Ion	Ratio	Lower	Upper
107	100		
144	26.0	20.9	31.3
142	81.3	64.2	96.2



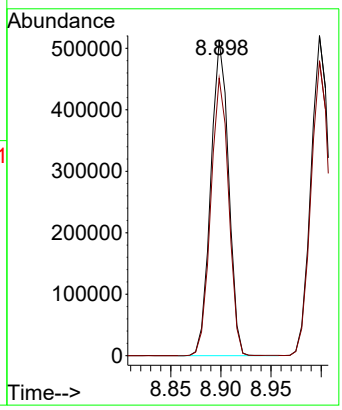


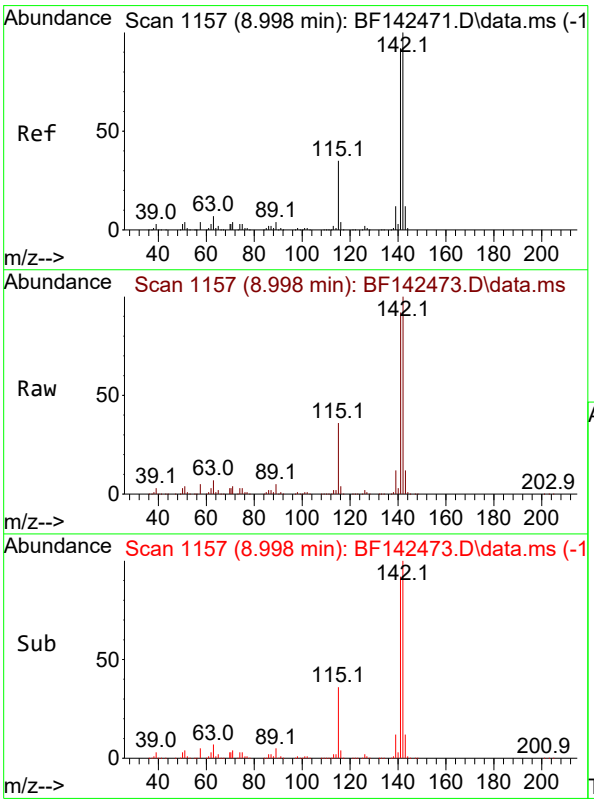
#37
2-Methylnaphthalene
Concen: 57.893 ng
RT: 8.898 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:142 Resp: 635148

Ion	Ratio	Lower	Upper
142	100		
141	88.1	70.7	106.1

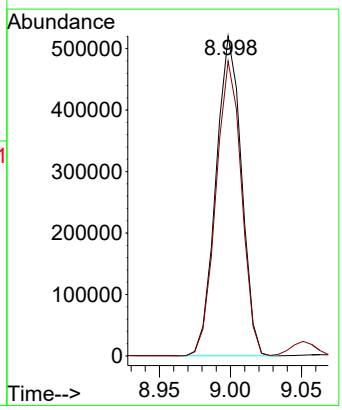


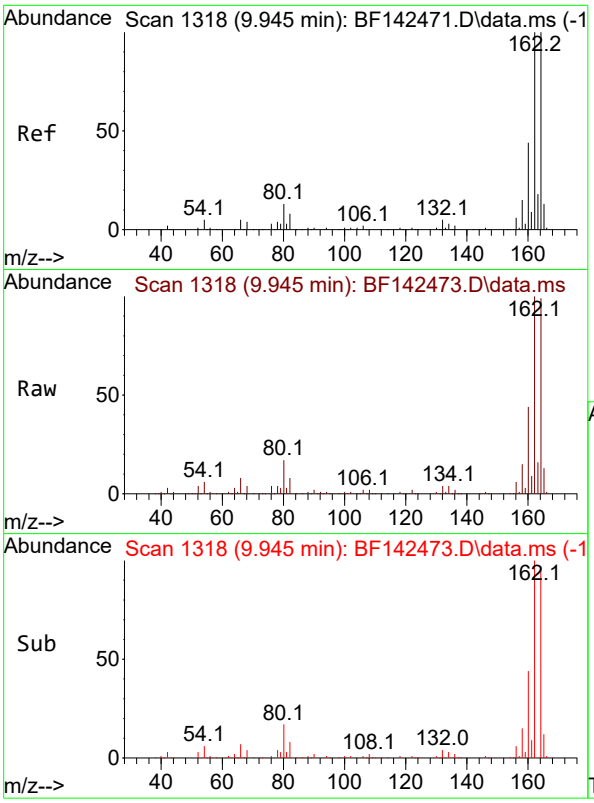


#38
1-Methylnaphthalene
Concen: 57.247 ng
RT: 8.998 min Scan# 1157
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:142 Resp: 649652

Ion	Ratio	Lower	Upper
142	100		
141	92.1	73.4	110.2



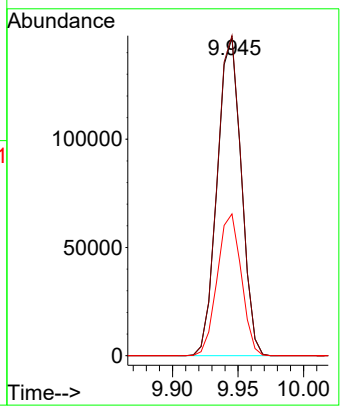


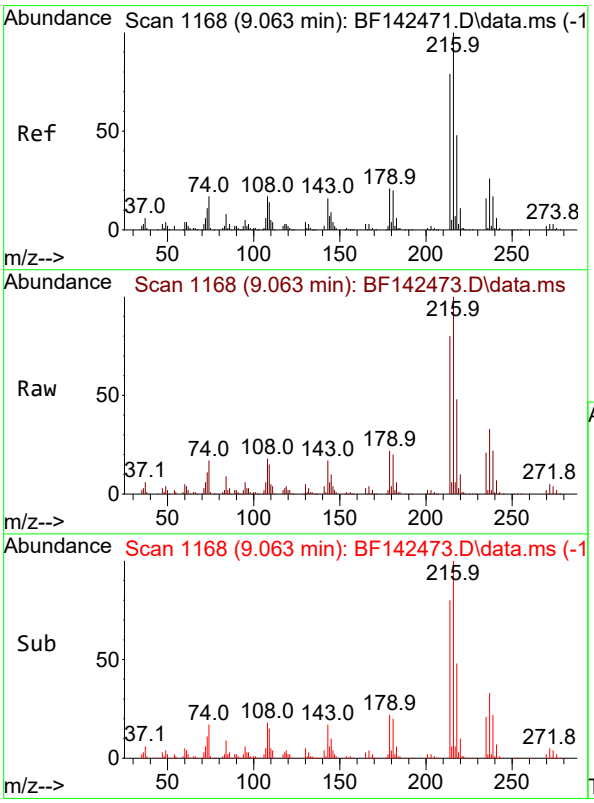
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:164 Resp: 187285

Ion	Ratio	Lower	Upper
164	100		
162	100.7	80.2	120.4
160	44.6	35.6	53.4

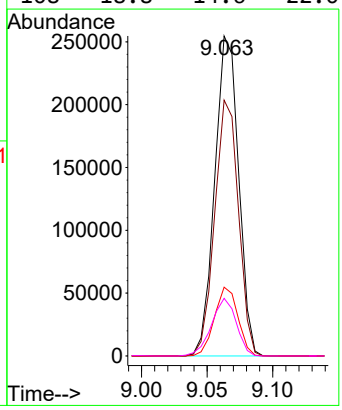


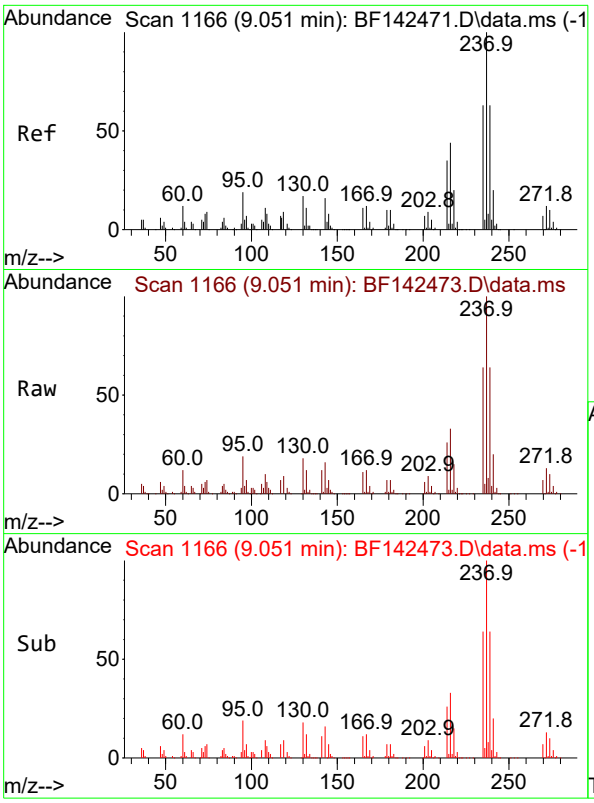


#40
1,2,4,5-Tetrachlorobenzene
Concen: 59.844 ng
RT: 9.063 min Scan# 1168
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:216 Resp: 321732

Ion	Ratio	Lower	Upper
216	100		
214	79.5	62.9	94.3
179	21.1	16.9	25.3
108	18.8	14.6	22.0



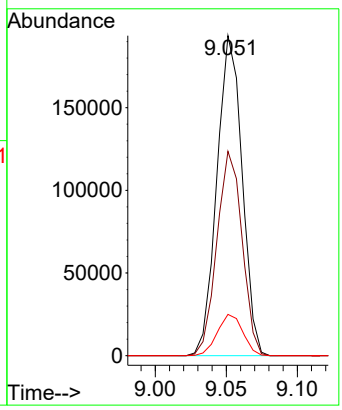


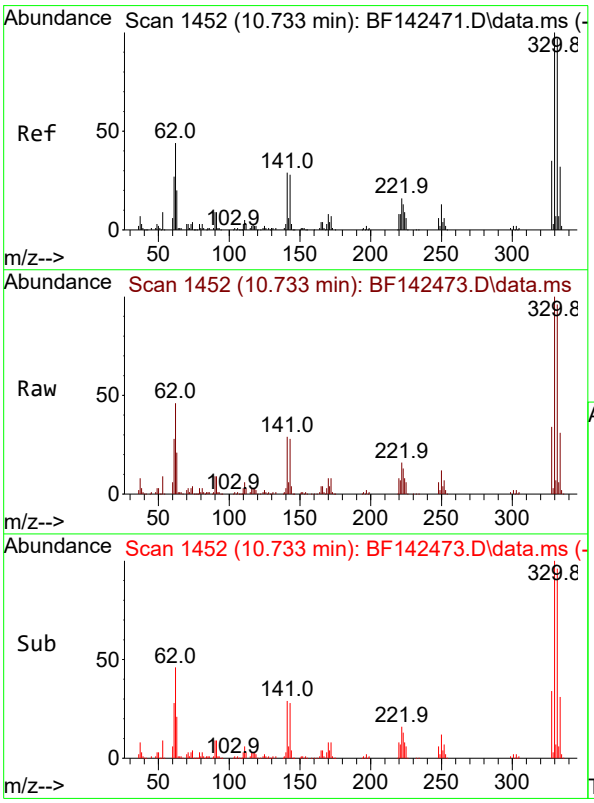
#41
Hexachlorocyclopentadiene
Concen: 65.820 ng
RT: 9.051 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:237 Resp: 238708

Ion	Ratio	Lower	Upper
237	100		
235	63.9	43.3	83.3
272	12.9	0.0	32.4

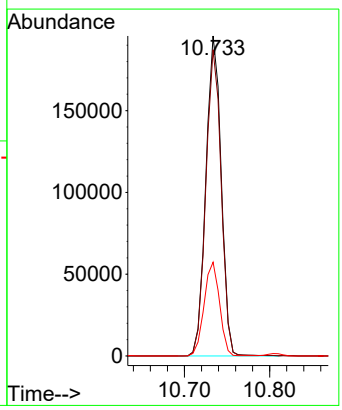


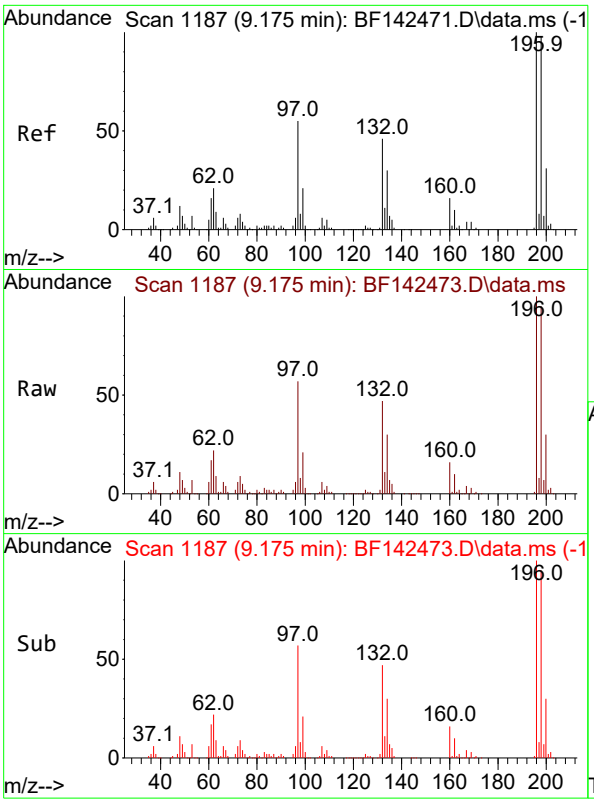


#42
2,4,6-Tribromophenol
Concen: 117.621 ng
RT: 10.733 min Scan# 1452
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:330 Resp: 244491

Ion	Ratio	Lower	Upper
330	100		
332	95.7	77.6	116.4
141	29.6	24.6	36.8



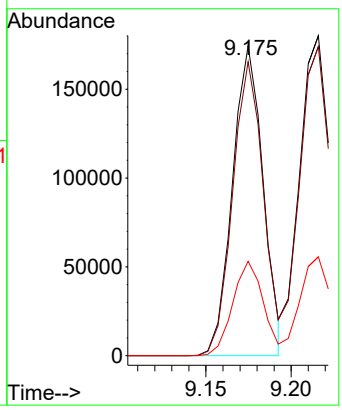


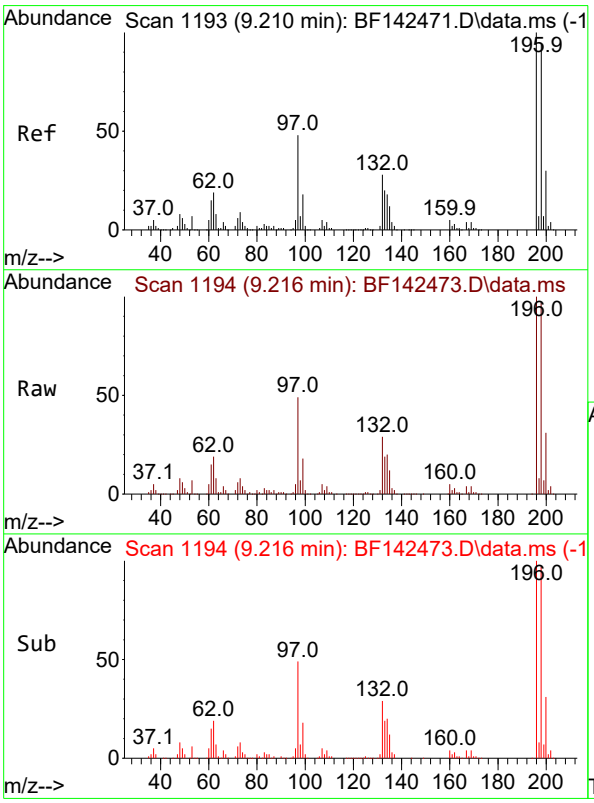
#43
2,4,6-Trichlorophenol
Concen: 60.098 ng
RT: 9.175 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:196 Resp: 217868

Ion	Ratio	Lower	Upper
196	100		
198	94.9	78.8	118.2
200	30.4	24.9	37.3

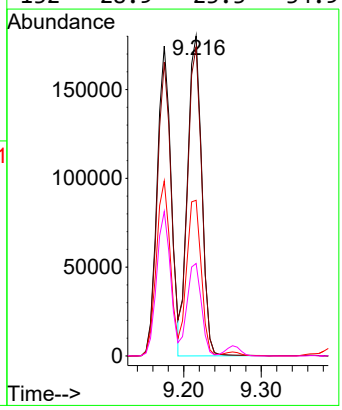


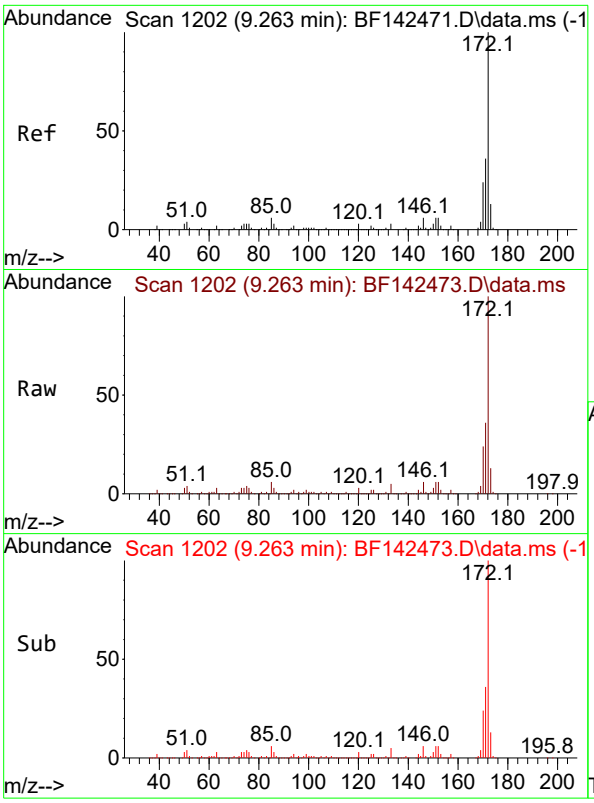


#44
2,4,5-Trichlorophenol
Concen: 59.916 ng
RT: 9.216 min Scan# 1194
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:196 Resp: 229079

Ion	Ratio	Lower	Upper
196	100		
198	96.6	75.5	113.3
97	48.6	39.3	58.9
132	28.9	23.3	34.9



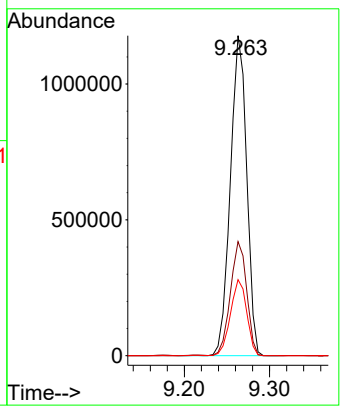


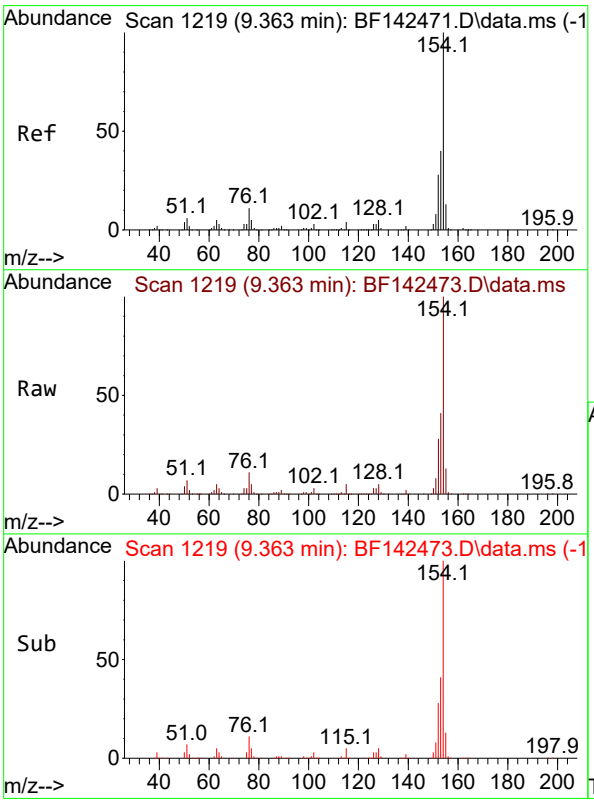
#45
2-Fluorobiphenyl
Concen: 112.426 ng
RT: 9.263 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:172 Resp: 1569136

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	42.8
170	23.7	18.9	28.3

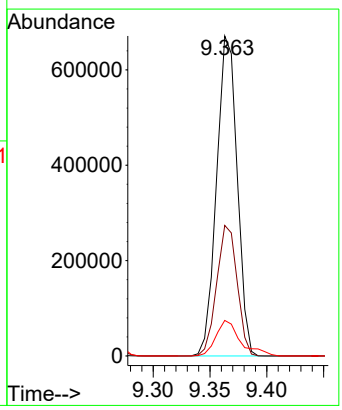


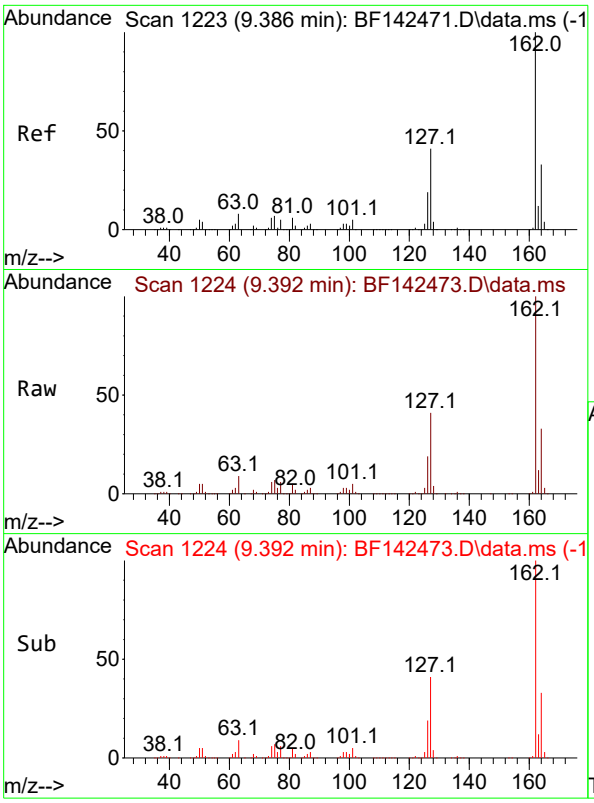


#46
1,1'-Biphenyl
Concen: 58.279 ng
RT: 9.363 min Scan# 1219
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:154 Resp: 846783

Ion	Ratio	Lower	Upper
154	100		
153	40.8	20.4	60.4
76	11.1	0.0	30.8



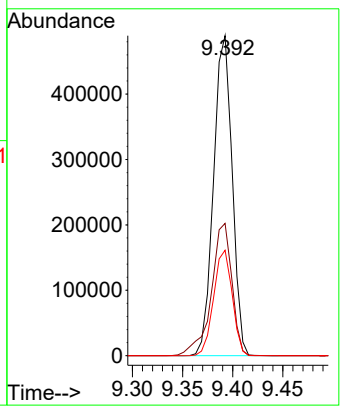


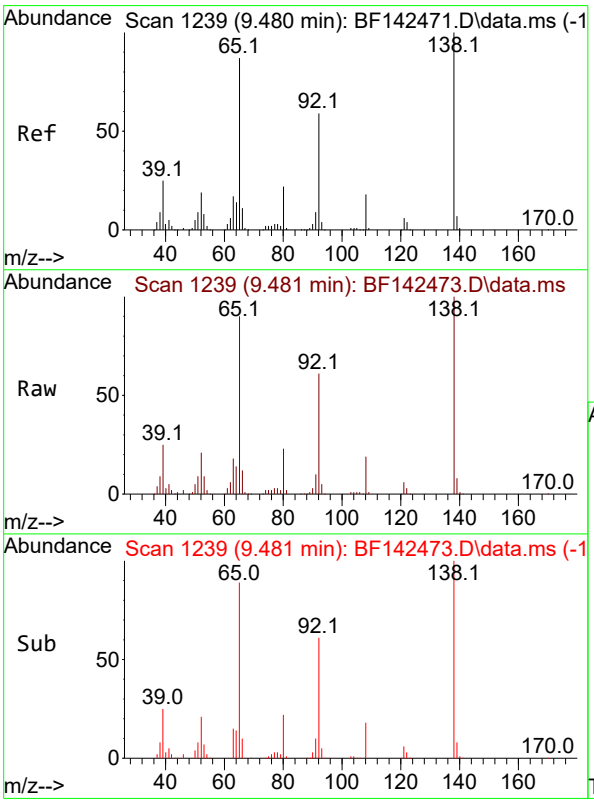
#47
2-Chloronaphthalene
Concen: 58.746 ng
RT: 9.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 630647

Ion	Ratio	Lower	Upper
162	100		
127	41.3	33.5	50.3
164	33.0	26.1	39.1

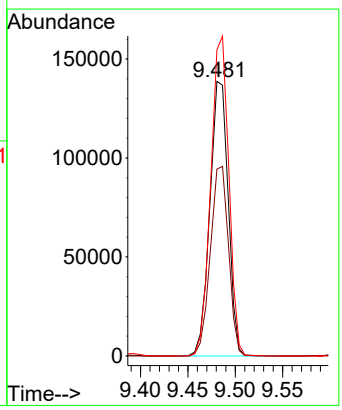


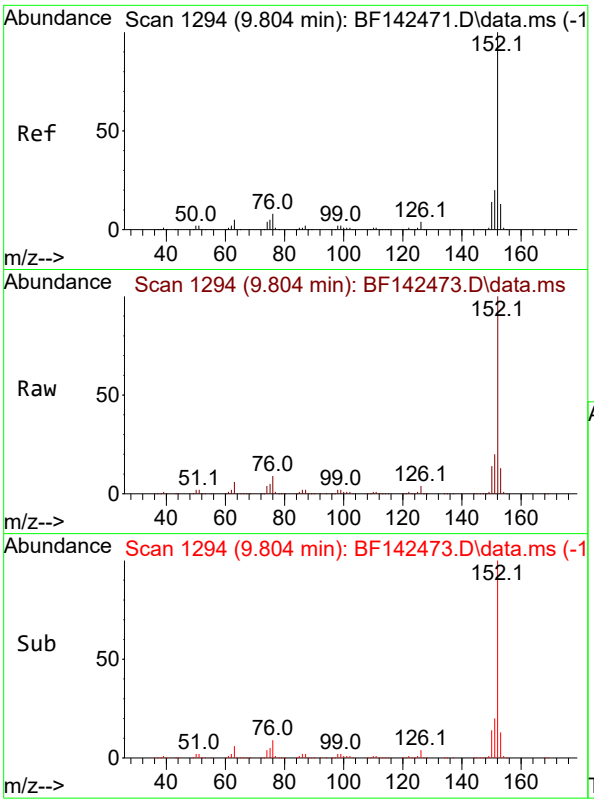


#48
2-Nitroaniline
Concen: 60.093 ng
RT: 9.481 min Scan# 1239
Delta R.T. -0.005 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion: 65 Resp: 186466

Ion	Ratio	Lower	Upper
65	100		
92	68.1	54.4	81.6
138	111.5	91.4	137.2



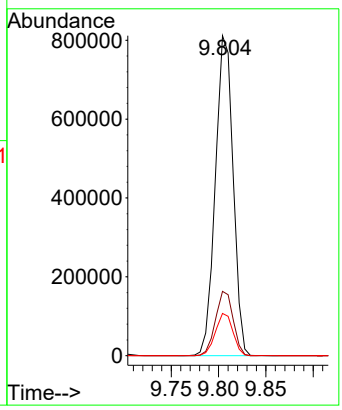


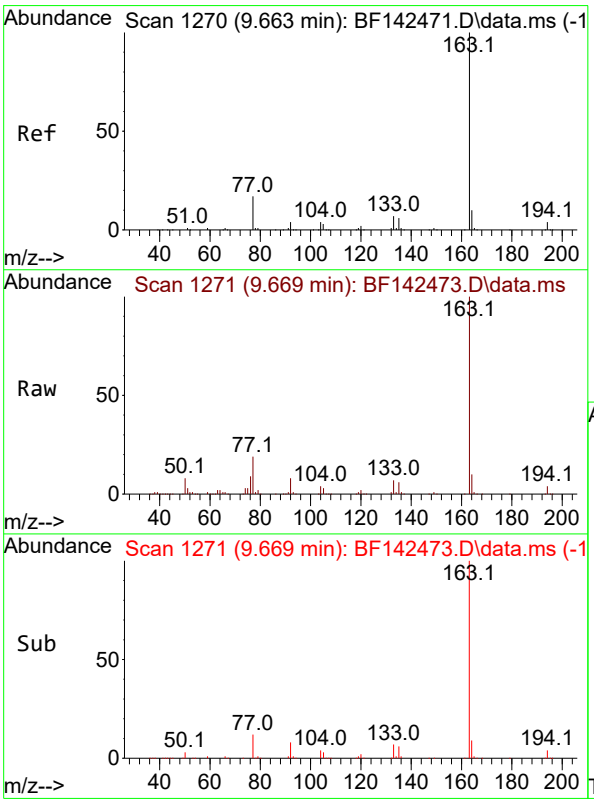
#49
Acenaphthylene
Concen: 58.411 ng
RT: 9.804 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 1058826

Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.8	23.8
153	13.2	10.6	15.8

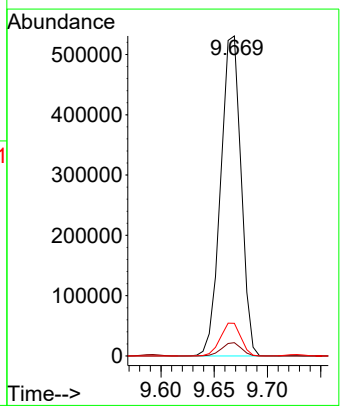


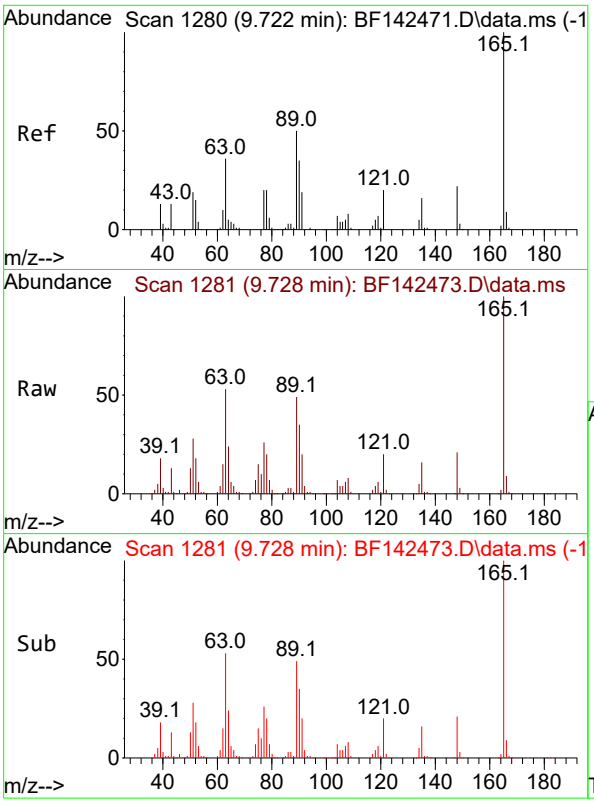


#50
Dimethylphthalate
Concen: 57.119 ng
RT: 9.669 min Scan# 1271
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:163 Resp: 705857

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.3	4.9
164	10.2	8.2	12.4



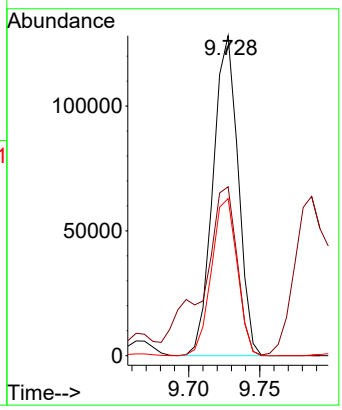


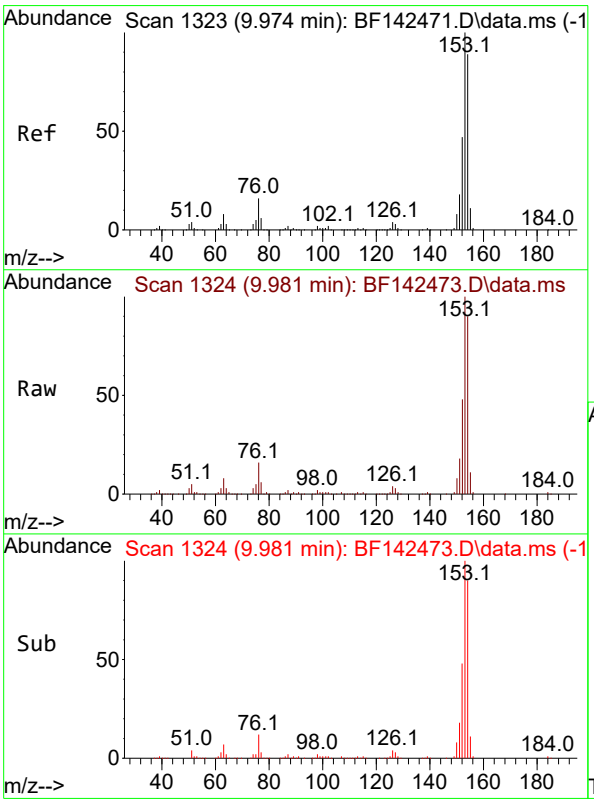
#51
2,6-Dinitrotoluene
Concen: 59.195 ng
RT: 9.728 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 157884

Ion	Ratio	Lower	Upper
165	100		
63	52.8	42.9	64.3
89	49.1	40.2	60.4

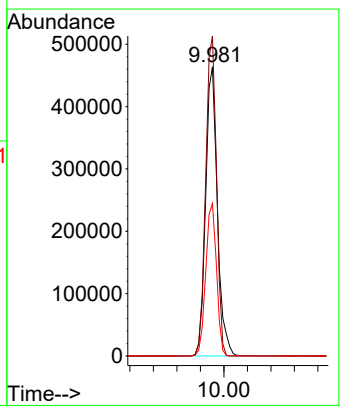


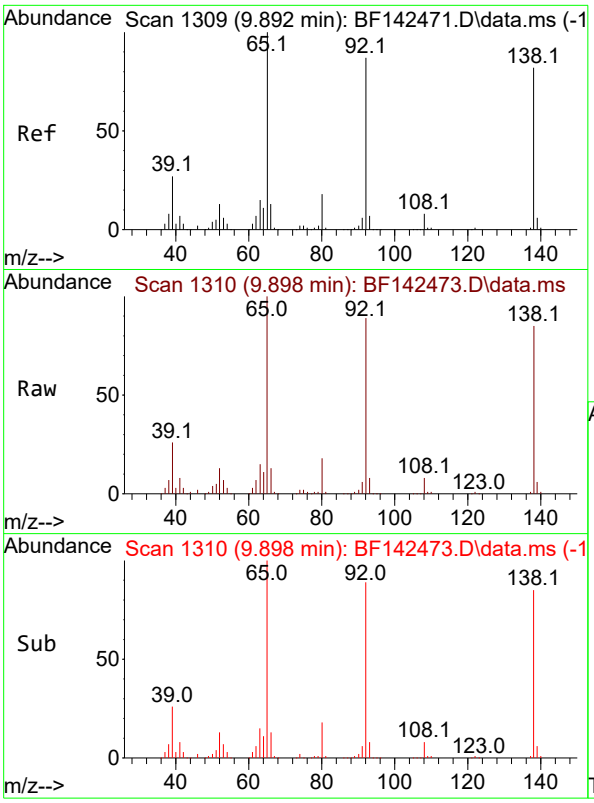


#52
Acenaphthene
Concen: 58.160 ng
RT: 9.981 min Scan# 1324
Delta R.T. 0.001 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:154 Resp: 643773

Ion	Ratio	Lower	Upper
154	100		
153	110.7	90.0	135.0
152	52.8	42.6	64.0



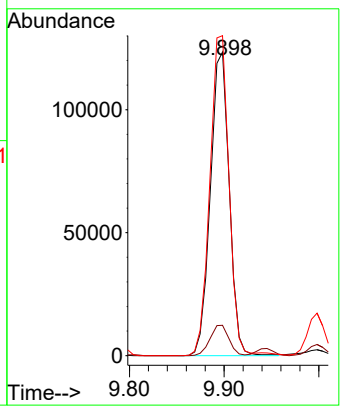


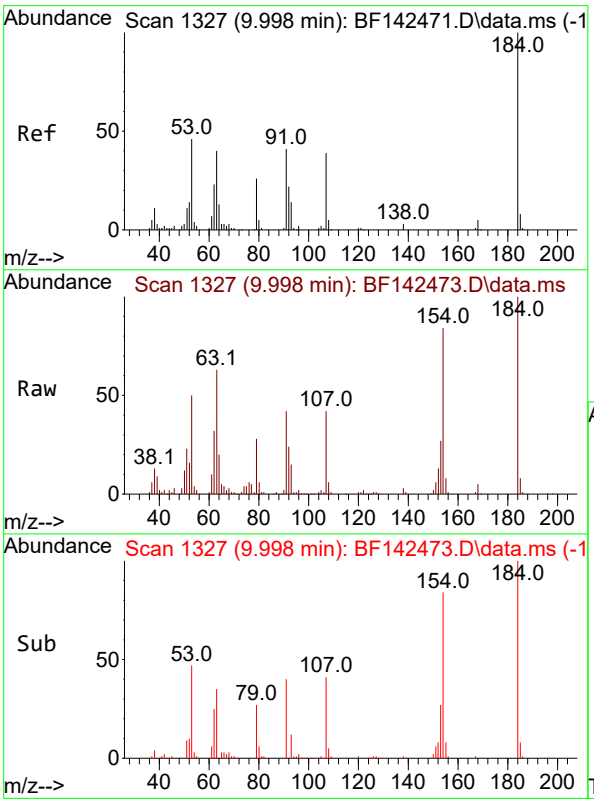
#53
3-Nitroaniline
Concen: 58.746 ng
RT: 9.898 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:138 Resp: 171137

Ion	Ratio	Lower	Upper
138	100		
108	10.0	8.1	12.1
92	105.4	85.2	127.8

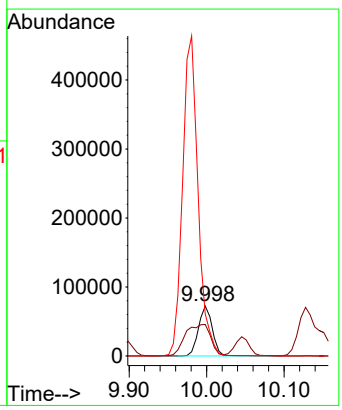


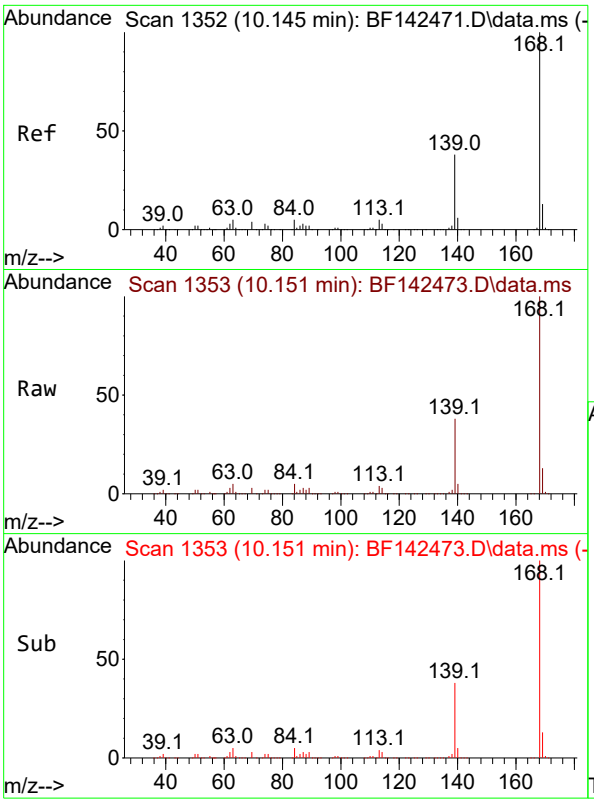


#54
2,4-Dinitrophenol
Concen: 65.126 ng
RT: 9.998 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:184 Resp: 89741

Ion	Ratio	Lower	Upper
184	100		
63	63.3	46.3	69.5
154	84.0	56.8	85.2



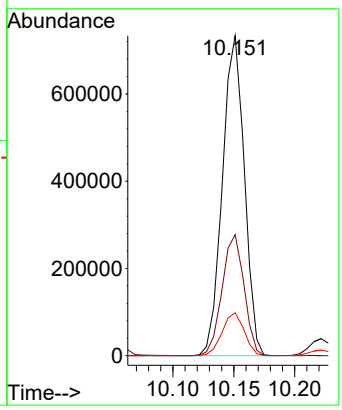


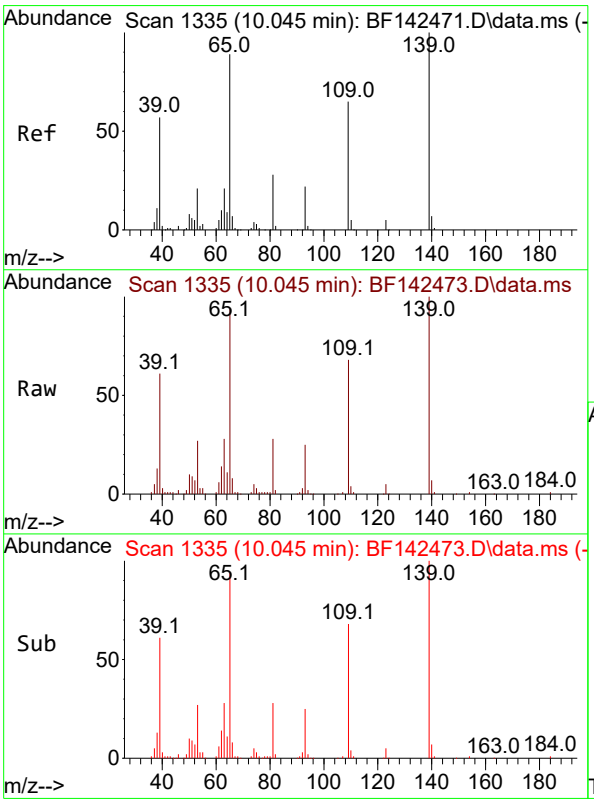
#55
Dibenzofuran
Concen: 57.677 ng
RT: 10.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:168 Resp: 918703

Ion	Ratio	Lower	Upper
168	100		
139	37.8	30.2	45.2
169	13.4	10.7	16.1

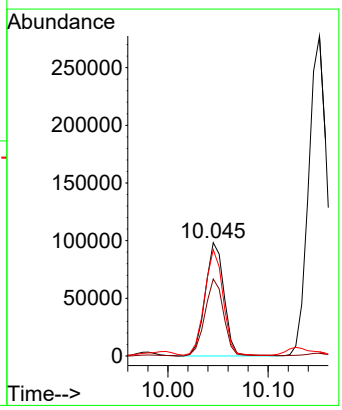


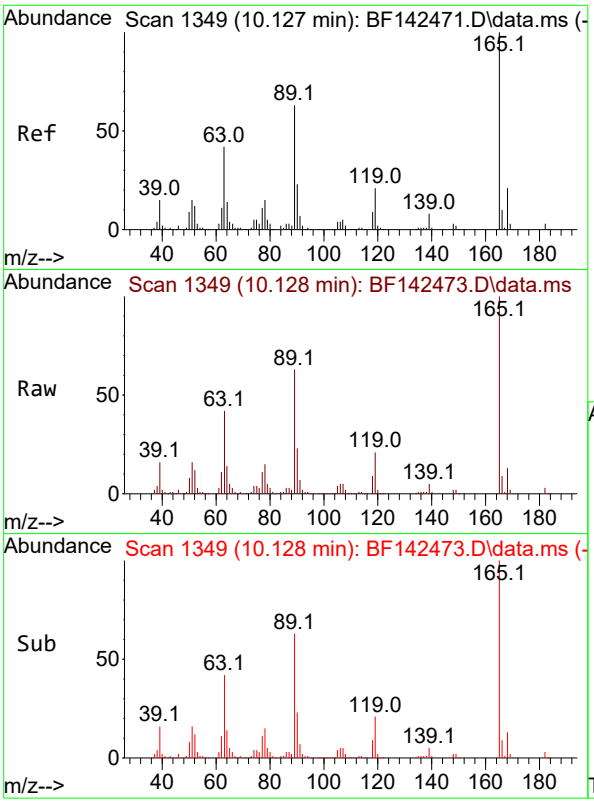


#56
4-Nitrophenol
Concen: 59.782 ng
RT: 10.045 min Scan# 1335
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:139 Resp: 128501

Ion	Ratio	Lower	Upper
139	100		
109	67.9	45.1	85.1
65	93.8	69.7	109.7



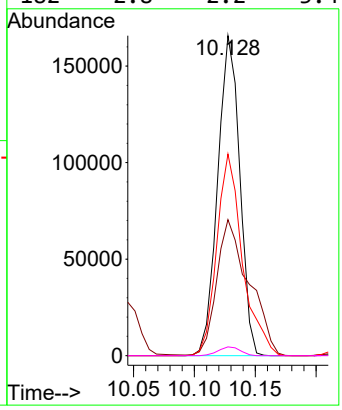


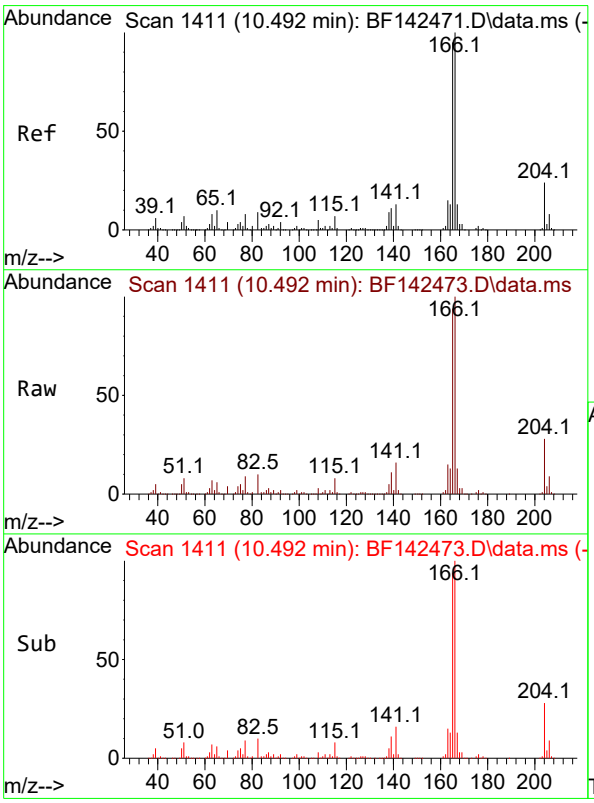
#57
2,4-Dinitrotoluene
Concen: 60.012 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 209035

Ion	Ratio	Lower	Upper
165	100		
63	42.5	33.6	50.4
89	63.0	50.2	75.4
182	2.8	2.2	3.4

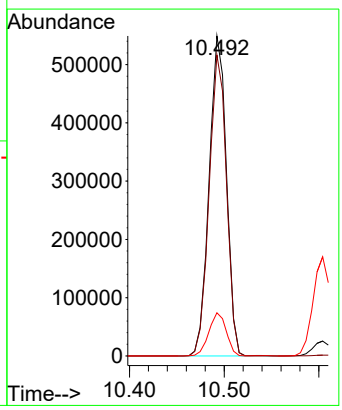


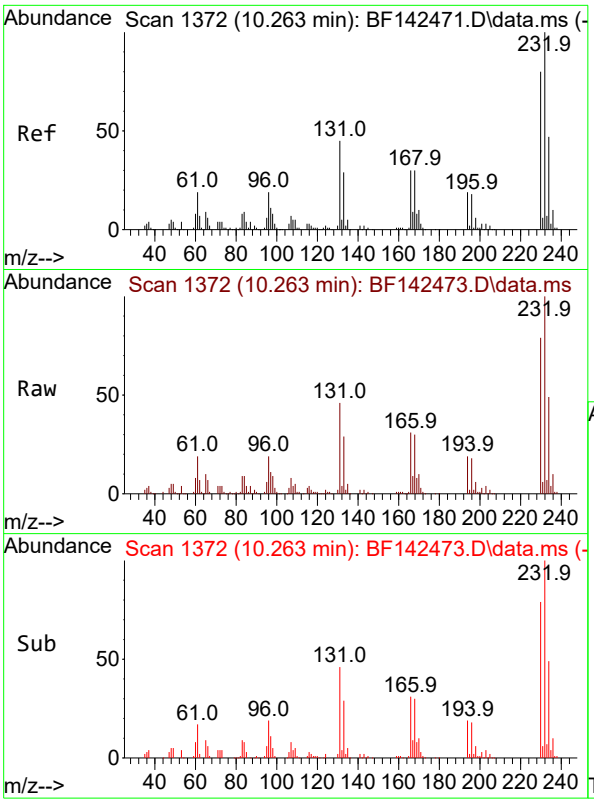


#58
Fluorene
Concen: 56.516 ng
RT: 10.492 min Scan# 1411
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:166 Resp: 695462

Ion	Ratio	Lower	Upper
166	100		
165	94.1	75.8	113.8
167	13.5	10.6	16.0



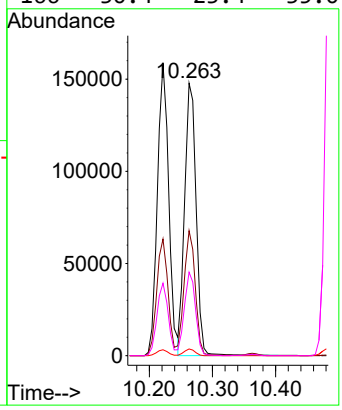


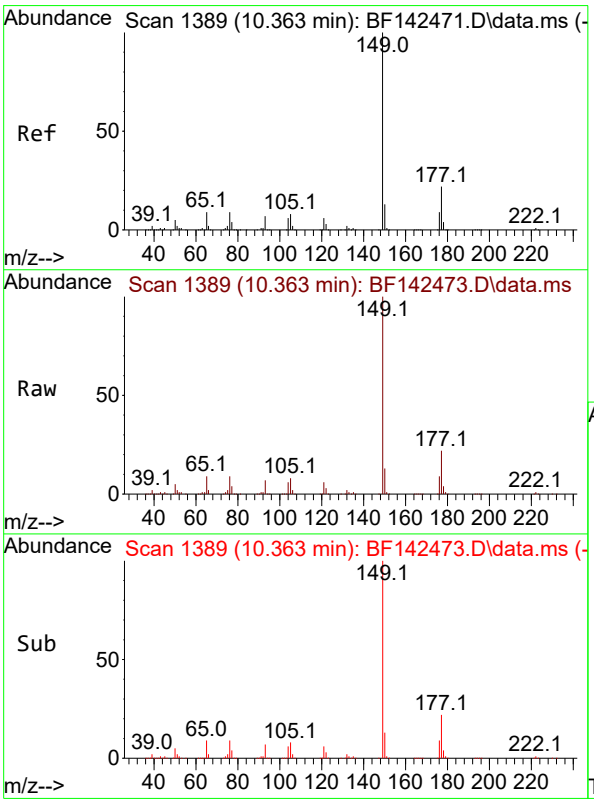
#59
2,3,4,6-Tetrachlorophenol
Concen: 58.609 ng
RT: 10.263 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:232 Resp: 187067

Ion	Ratio	Lower	Upper
232	100		
131	45.0	35.2	52.8
130	2.4	1.7	2.5
166	30.4	23.4	35.0

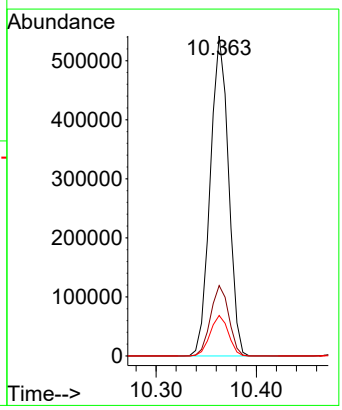


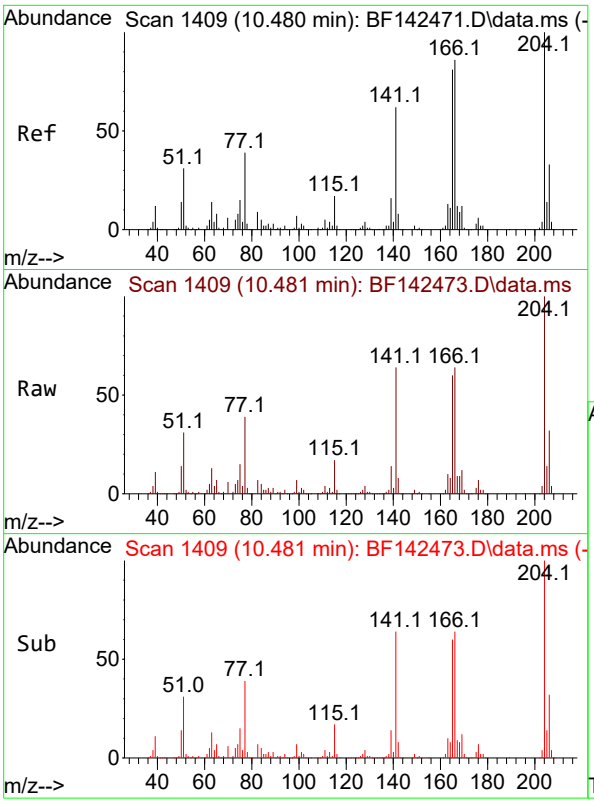


#60
Diethylphthalate
Concen: 56.695 ng
RT: 10.363 min Scan# 1389
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:149 Resp: 684259

Ion	Ratio	Lower	Upper
149	100		
177	22.0	17.6	26.4
150	12.6	10.1	15.1



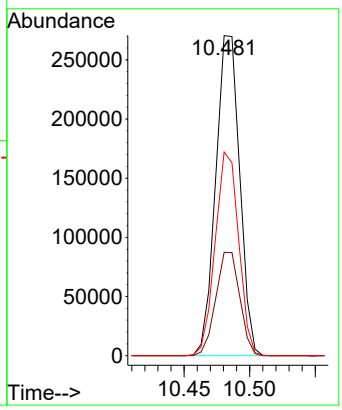


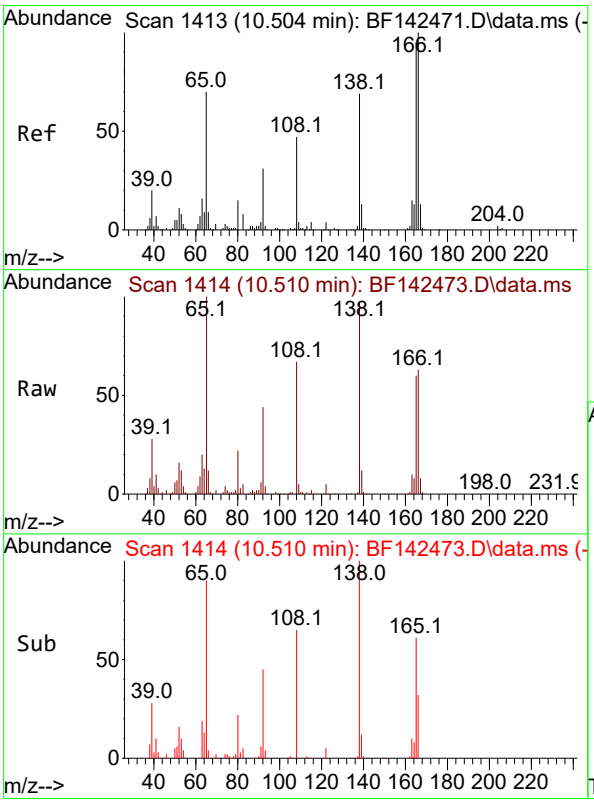
#61
4-Chlorophenyl-phenylether
Concen: 56.880 ng
RT: 10.481 min Scan# 14
Delta R.T. -0.005 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:204 Resp: 343838

Ion	Ratio	Lower	Upper
204	100		
206	32.3	26.3	39.5
141	63.7	49.5	74.3

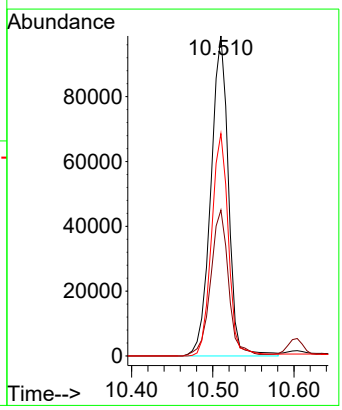


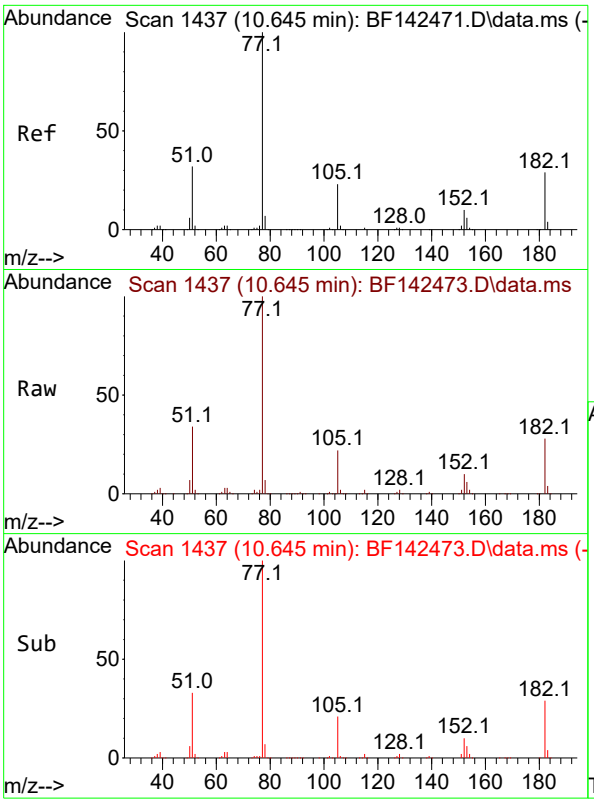


#62
4-Nitroaniline
Concen: 56.302 ng
RT: 10.510 min Scan# 1414
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:138 Resp: 148755

Ion	Ratio	Lower	Upper
138	100		
92	45.6	26.0	66.0
108	69.5	48.4	88.4



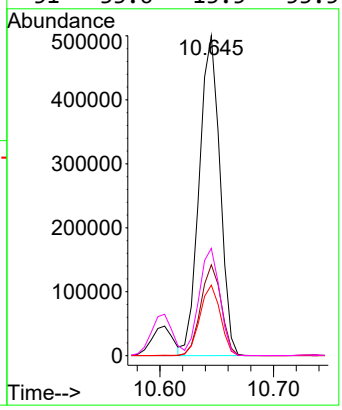


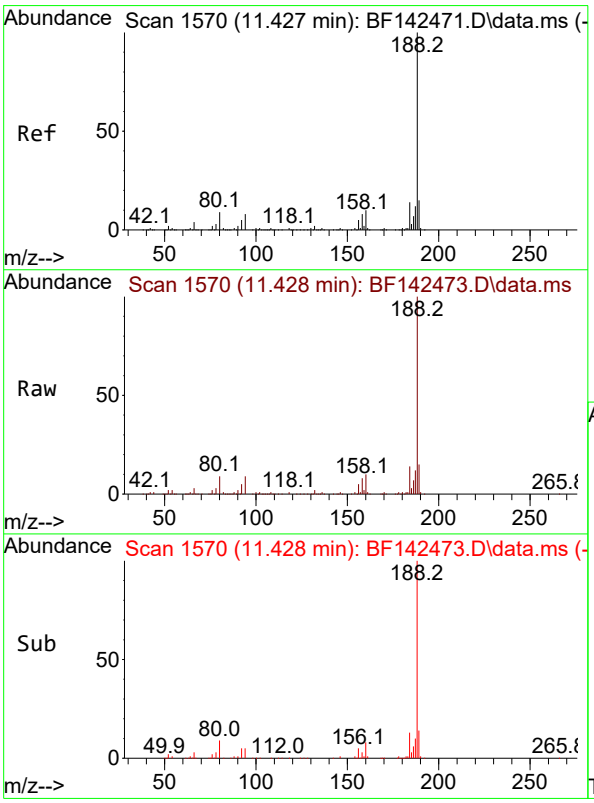
#63
Azobenzene
Concen: 58.221 ng
RT: 10.645 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 631137

Ion	Ratio	Lower	Upper
77	100		
182	28.4	9.0	49.0
105	22.1	2.4	42.4
51	33.6	13.5	53.5

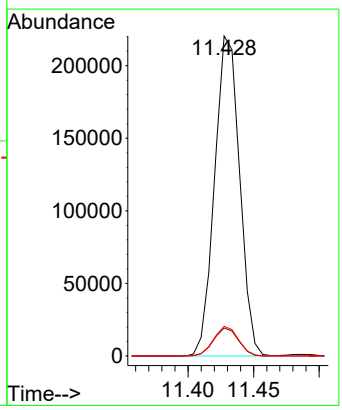


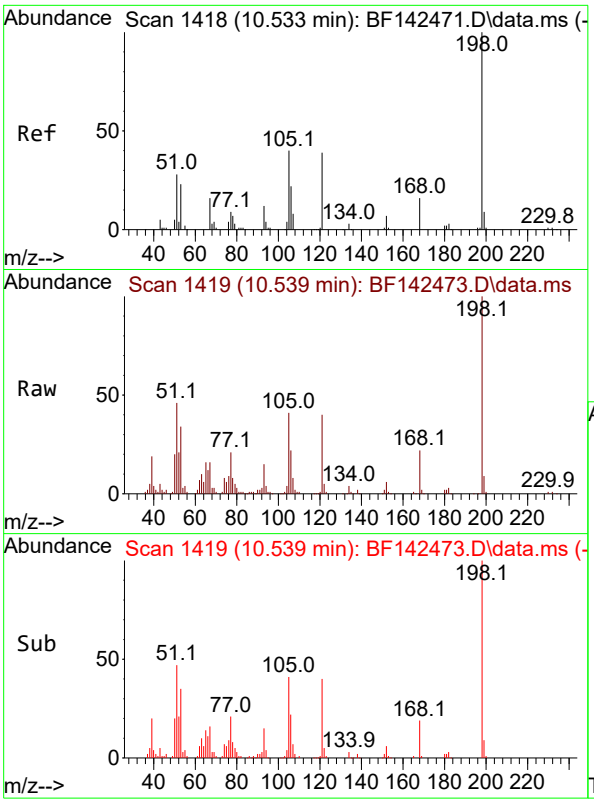


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:188 Resp: 292190

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.6	10.0
80	9.2	7.4	11.0



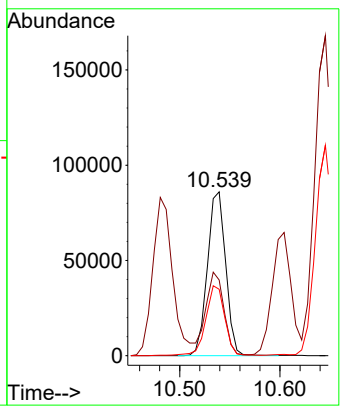


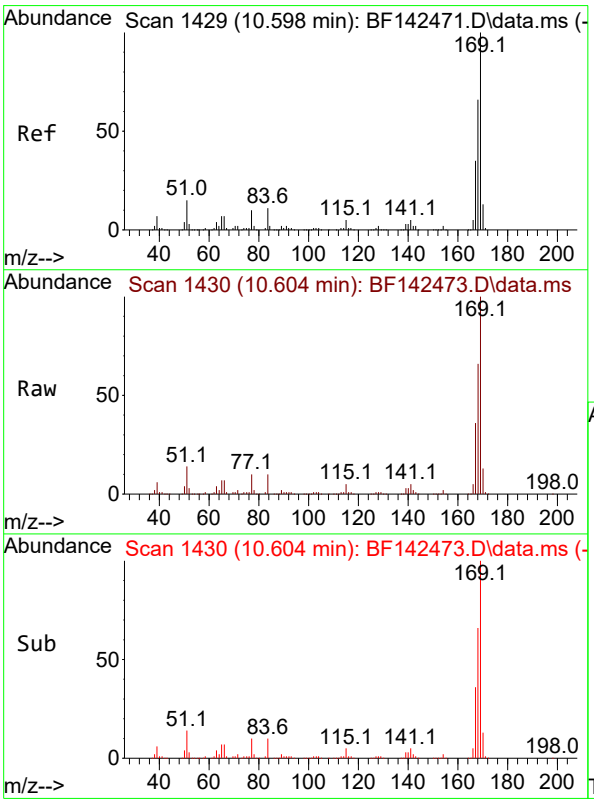
#65
4,6-Dinitro-2-methylphenol
Concen: 66.950 ng
RT: 10.539 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:198 Resp: 109172

Ion	Ratio	Lower	Upper
198	100		
51	46.2	28.3	68.3
105	40.5	21.3	61.3

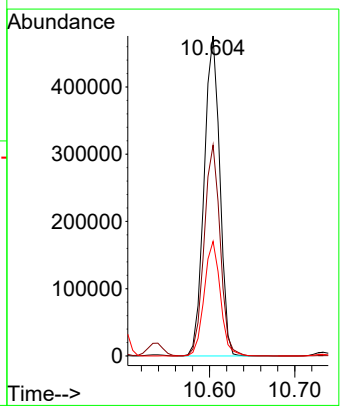


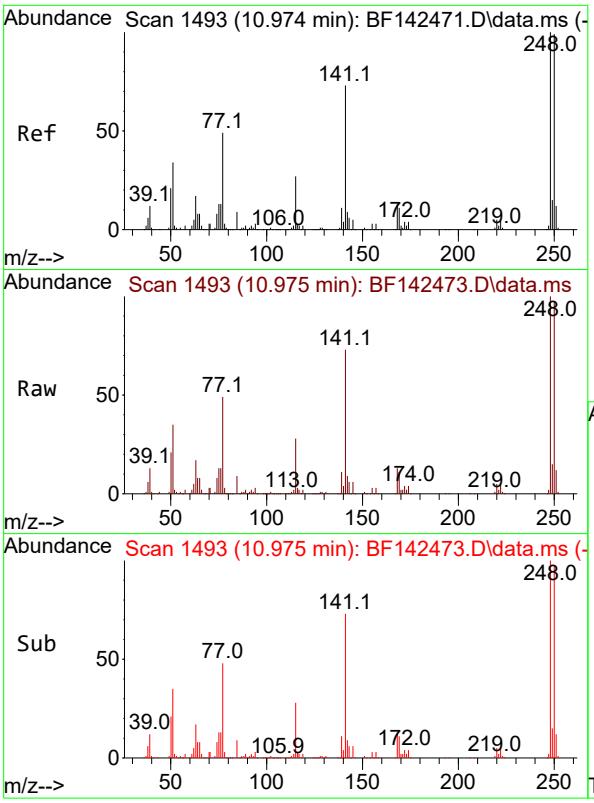


#66
n-Nitrosodiphenylamine
Concen: 60.861 ng
RT: 10.604 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:169 Resp: 608394

Ion	Ratio	Lower	Upper
169	100		
168	65.9	52.7	79.1
167	35.8	28.3	42.5



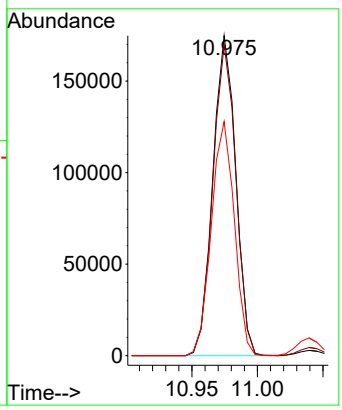


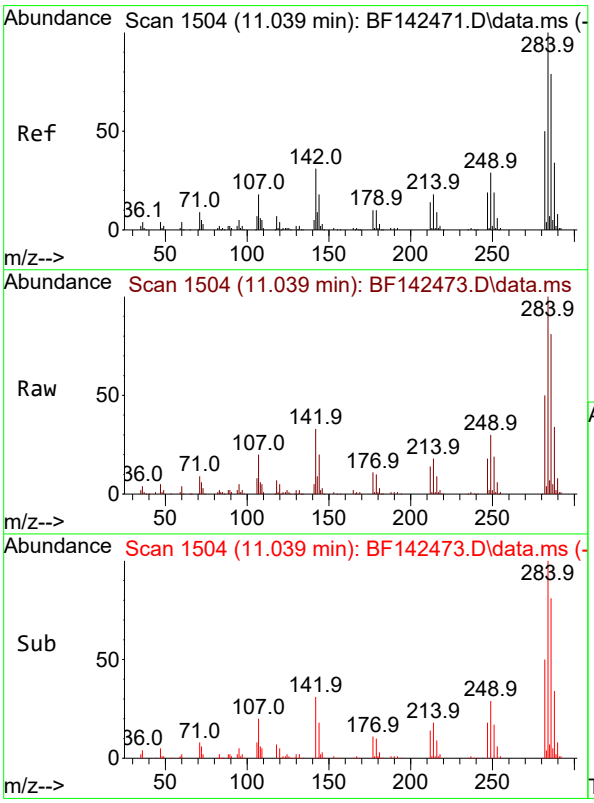
#67
4-Bromophenyl-phenylether
Concen: 61.546 ng
RT: 10.975 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:248 Resp: 212638

Ion	Ratio	Lower	Upper
248	100		
250	97.2	79.0	118.4
141	73.2	58.4	87.6

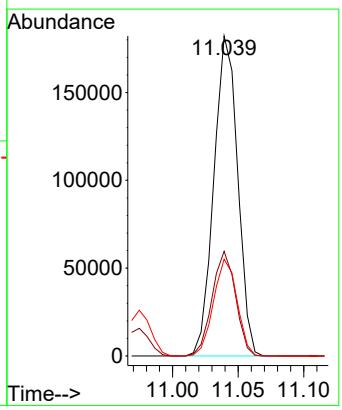


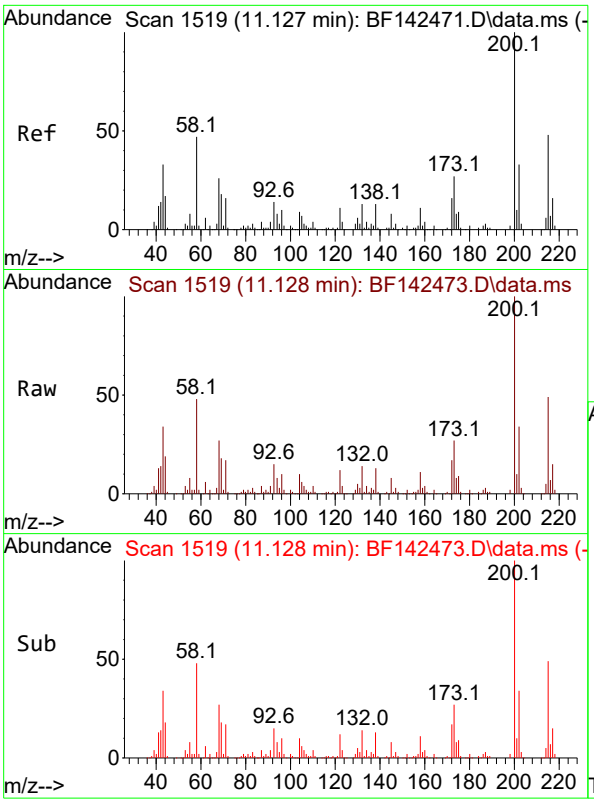


#68
Hexachlorobenzene
Concen: 60.168 ng
RT: 11.039 min Scan# 1504
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:284 Resp: 229917

Ion	Ratio	Lower	Upper
284	100		
142	32.7	24.8	37.2
249	30.2	23.6	35.4



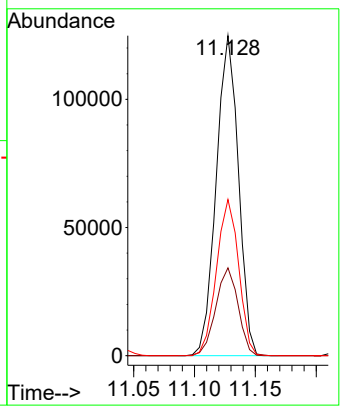


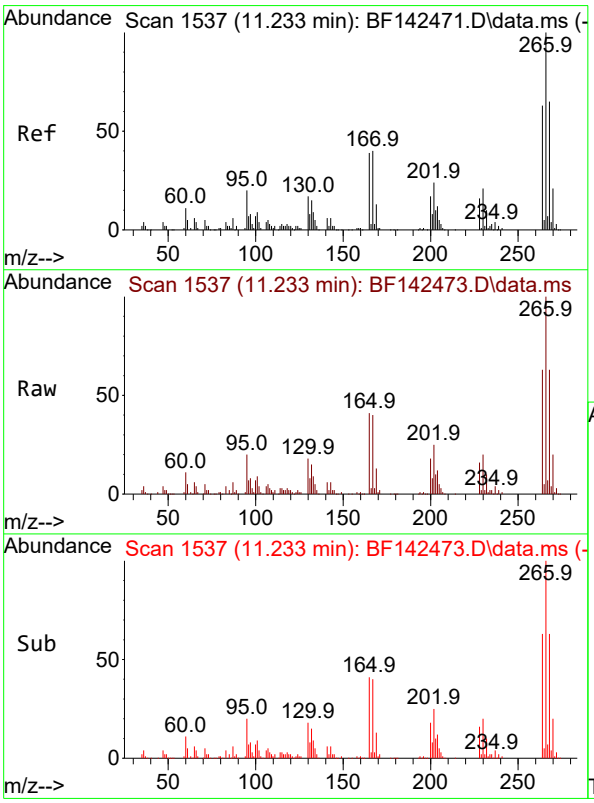
#69
Atrazine
Concen: 59.604 ng
RT: 11.128 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:200 Resp: 158234

Ion	Ratio	Lower	Upper
200	100		
173	27.4	7.4	47.4
215	48.8	28.5	68.5

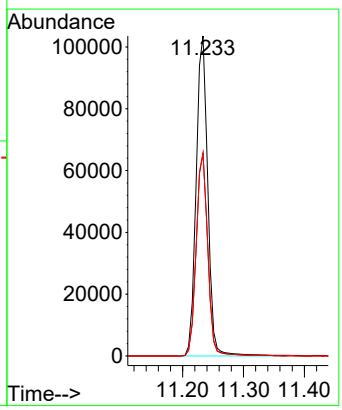


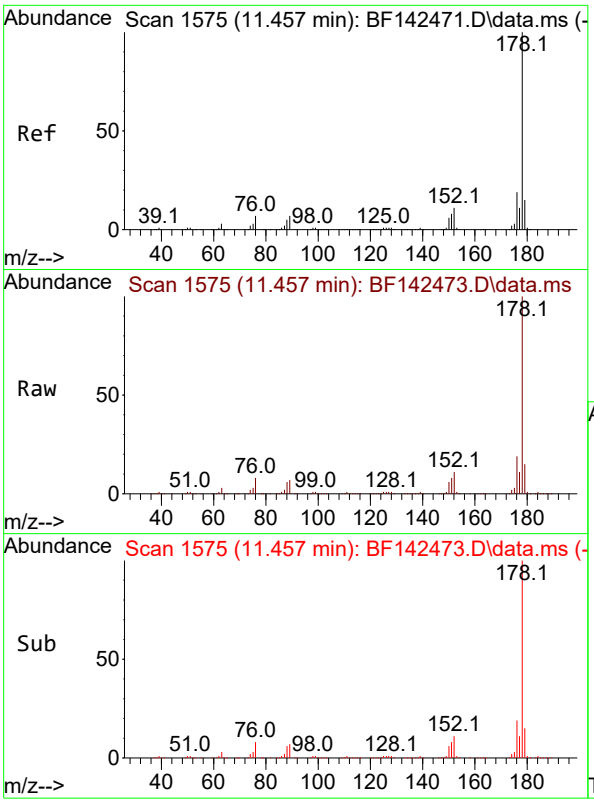


#70
Pentachlorophenol
Concen: 63.663 ng
RT: 11.233 min Scan# 1537
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:266 Resp: 137347

Ion	Ratio	Lower	Upper
266	100		
268	63.3	51.7	77.5
264	63.4	50.4	75.6



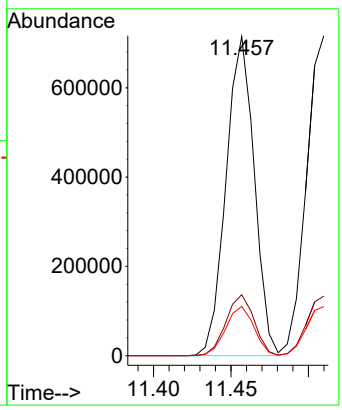


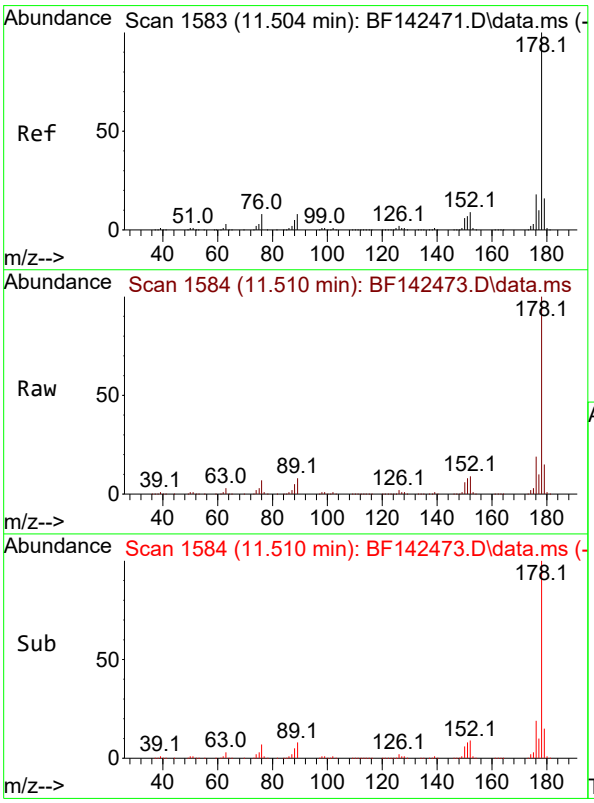
#71
Phenanthrene
Concen: 57.961 ng
RT: 11.457 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:178 Resp: 905073

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	15.4	12.3	18.5

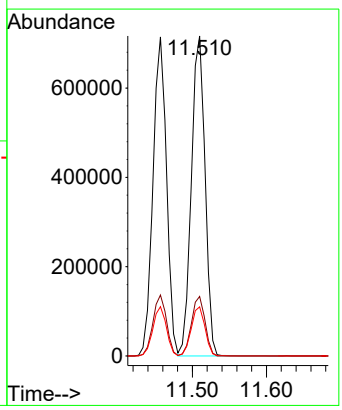


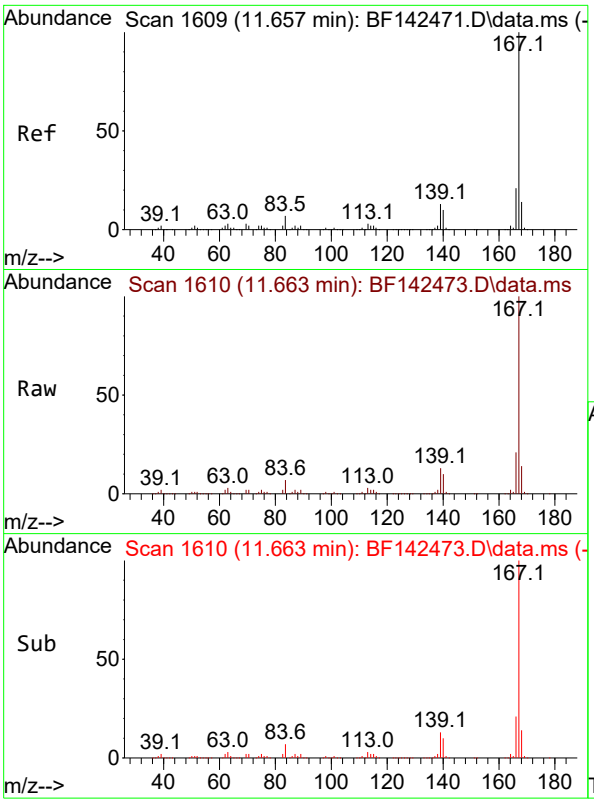


#72
Anthracene
Concen: 57.627 ng
RT: 11.510 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:178 Resp: 918369

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.6	21.8
179	15.3	12.4	18.6



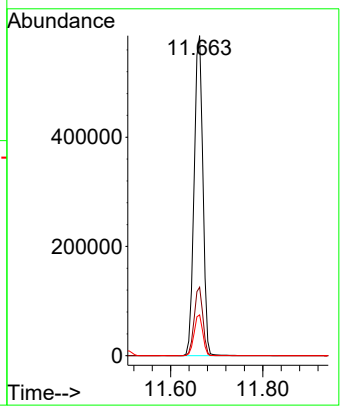


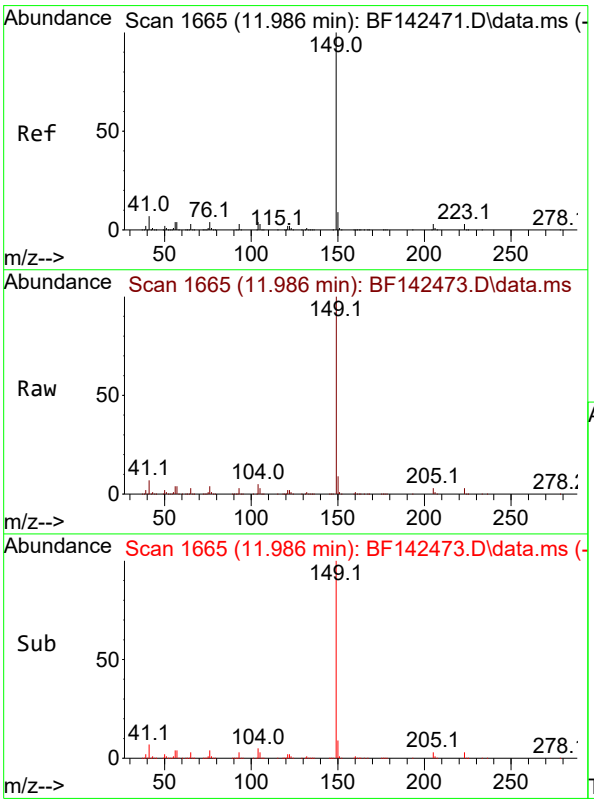
#73
Carbazole
Concen: 56.455 ng
RT: 11.663 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:167 Resp: 769151

Ion	Ratio	Lower	Upper
167	100		
166	21.4	16.9	25.3
139	12.8	10.2	15.4

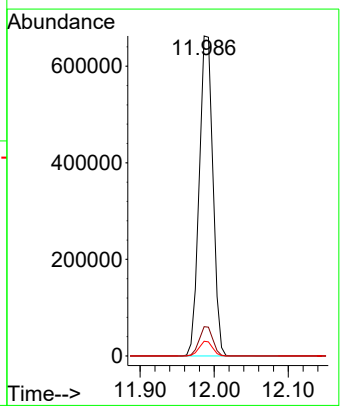


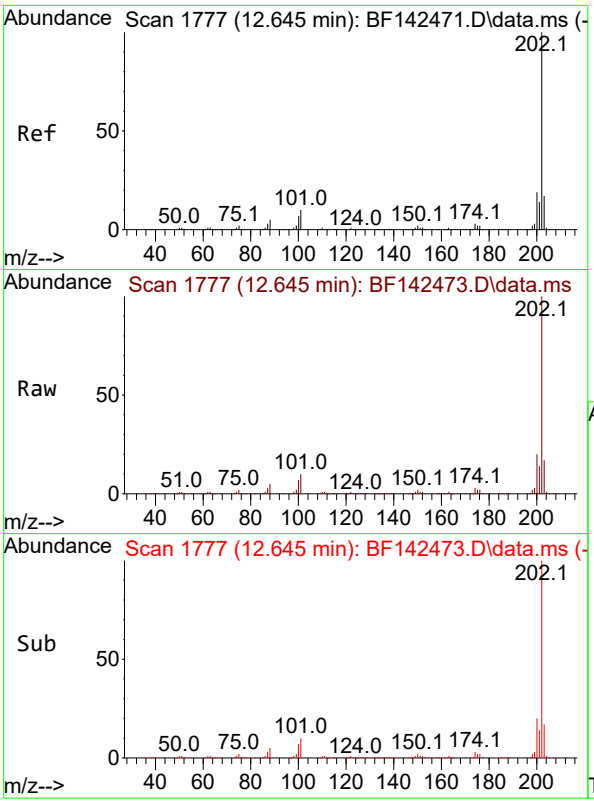


#74
Di-n-butylphthalate
Concen: 57.234 ng
RT: 11.986 min Scan# 1665
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:149 Resp: 853524

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.3	10.9
104	4.6	3.6	5.4



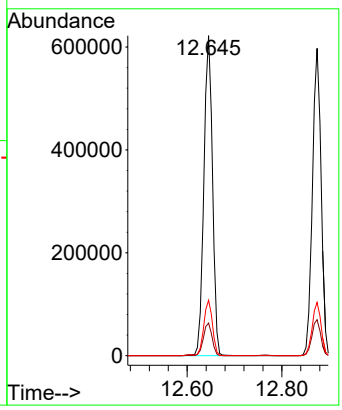


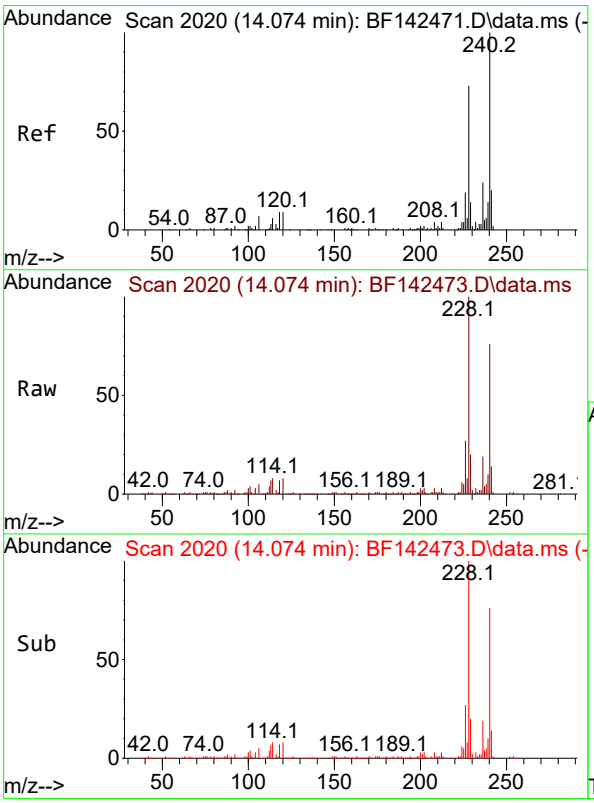
#75
Fluoranthene
Concen: 54.112 ng
RT: 12.645 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:202 Resp: 789533

Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	29.6
203	17.3	0.0	37.2

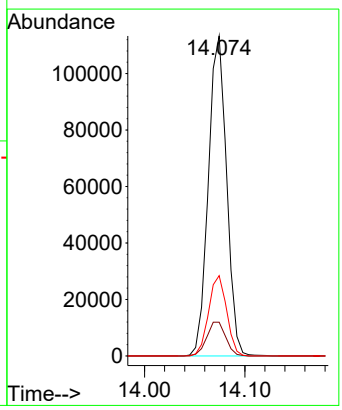


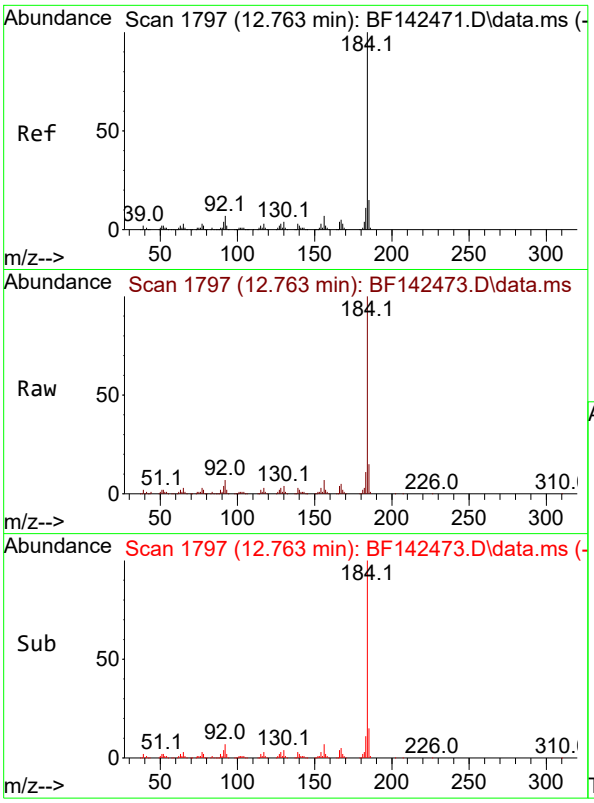


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.074 min Scan# 2020
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:240 Resp: 143579

Ion	Ratio	Lower	Upper
240	100		
120	10.6	7.5	11.3
236	25.1	19.6	29.4



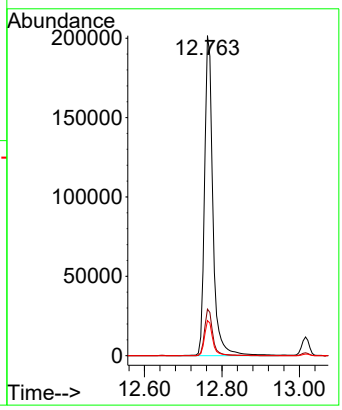


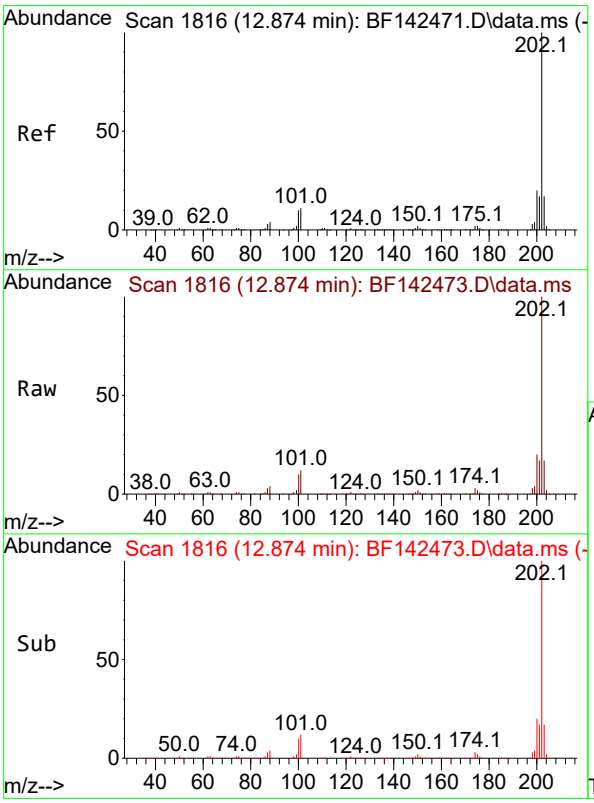
#77
Benzidine
Concen: 56.251 ng
RT: 12.763 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:184 Resp: 300547

Ion	Ratio	Lower	Upper
184	100		
185	14.6	11.6	17.4
183	11.0	9.0	13.4

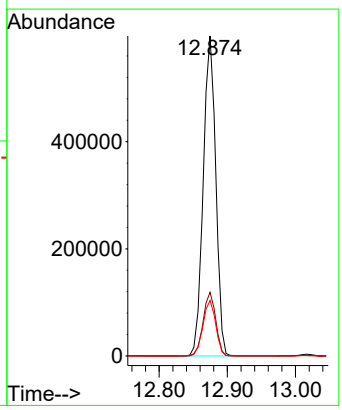


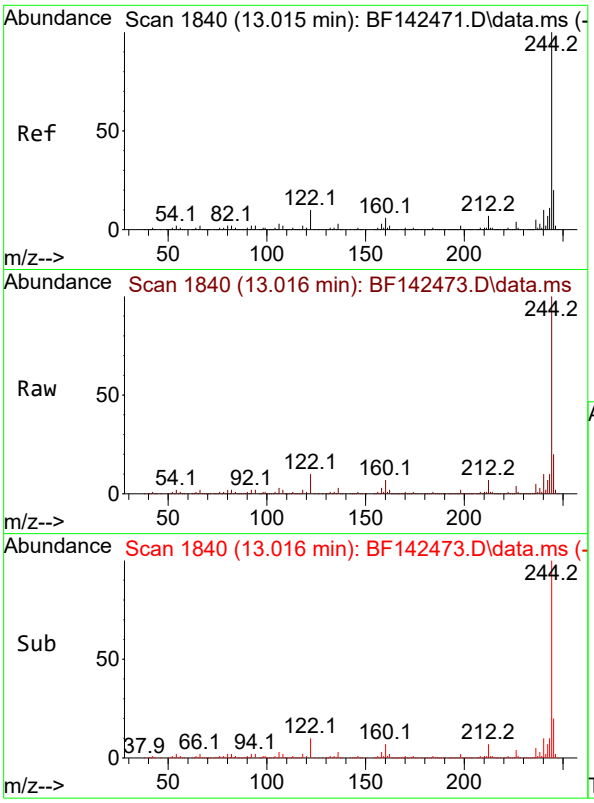


#78
Pyrene
Concen: 57.017 ng
RT: 12.874 min Scan# 1816
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:202 Resp: 763672

Ion	Ratio	Lower	Upper
202	100		
200	19.9	16.1	24.1
203	17.4	13.9	20.9



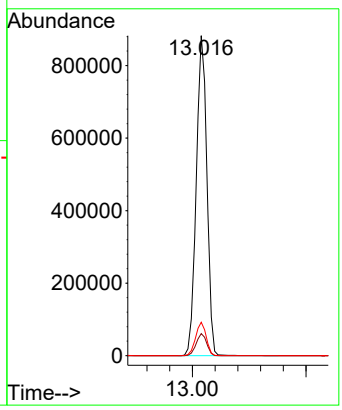


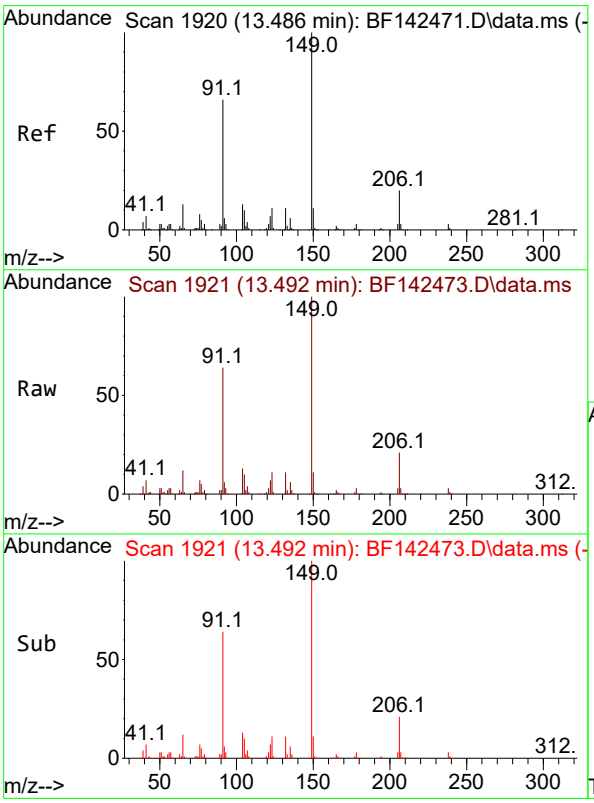
#79
Terphenyl-d14
Concen: 109.634 ng
RT: 13.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:244 Resp: 1151893

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.3	7.9
122	10.4	8.2	12.2

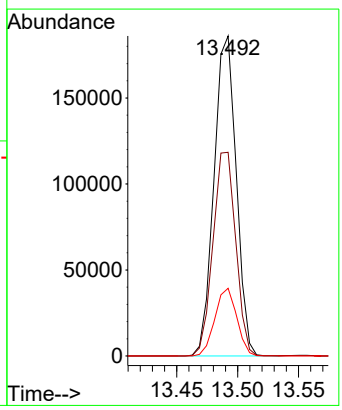


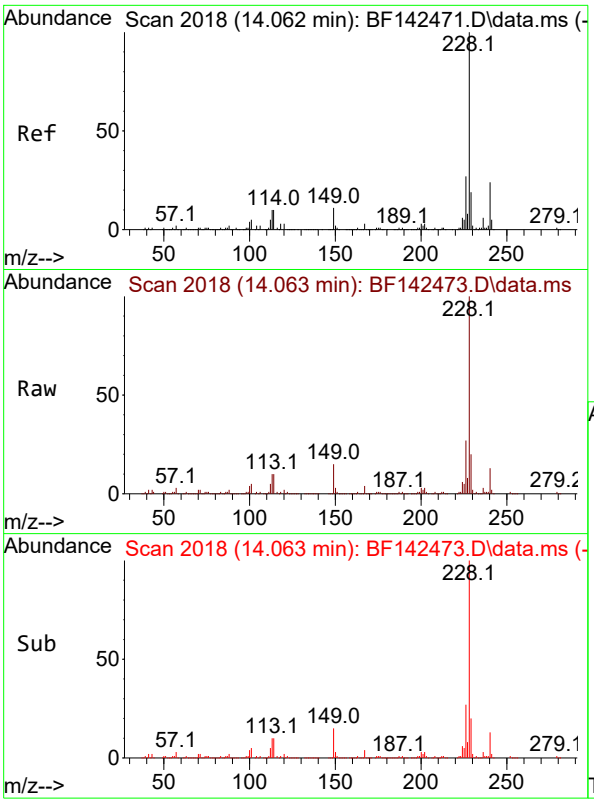


#80
Butylbenzylphthalate
Concen: 63.972 ng
RT: 13.492 min Scan# 1921
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:149 Resp: 236758

Ion	Ratio	Lower	Upper
149	100		
91	63.7	52.9	79.3
206	21.2	16.2	24.2



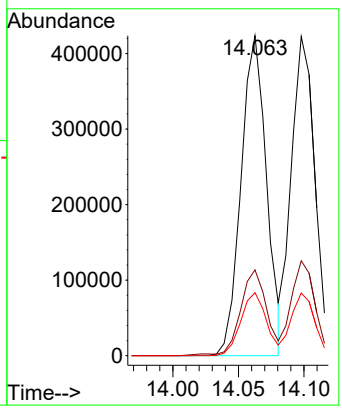


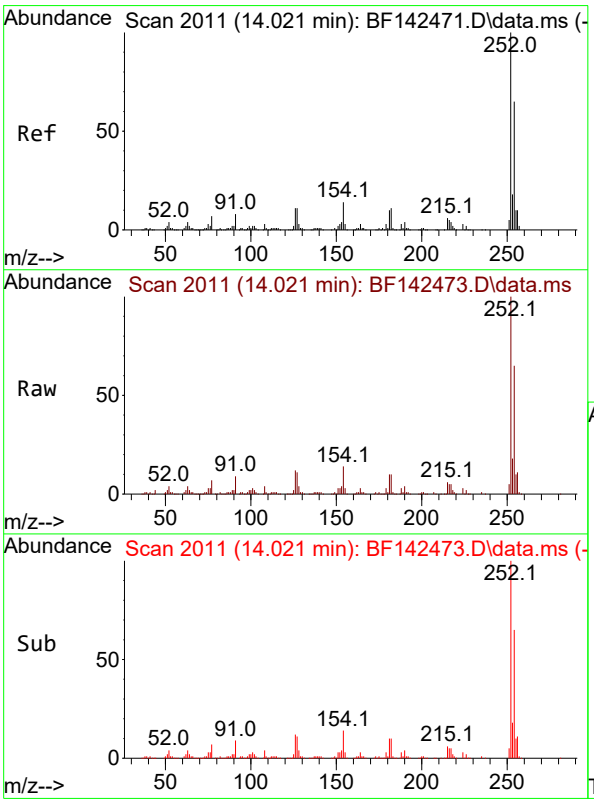
#81
Benzo(a)anthracene
Concen: 59.620 ng
RT: 14.063 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 571607

Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.2	31.8
229	19.7	15.5	23.3

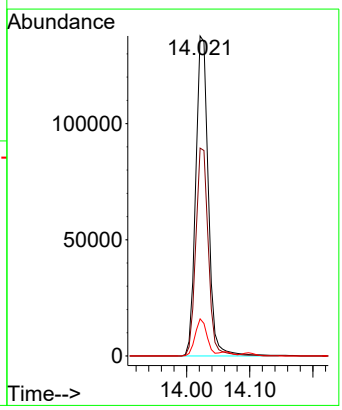


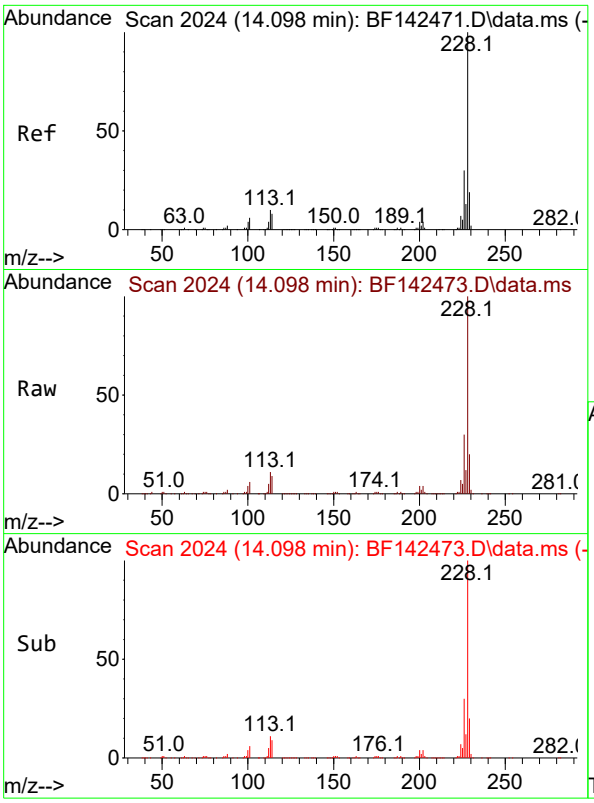


#82
3,3'-Dichlorobenzidine
Concen: 65.480 ng
RT: 14.021 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:252 Resp: 190415

Ion	Ratio	Lower	Upper
252	100		
254	64.9	52.0	78.0
126	11.6	8.9	13.3



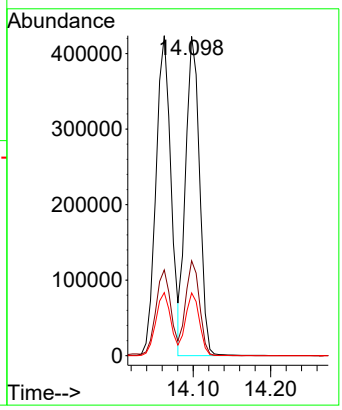


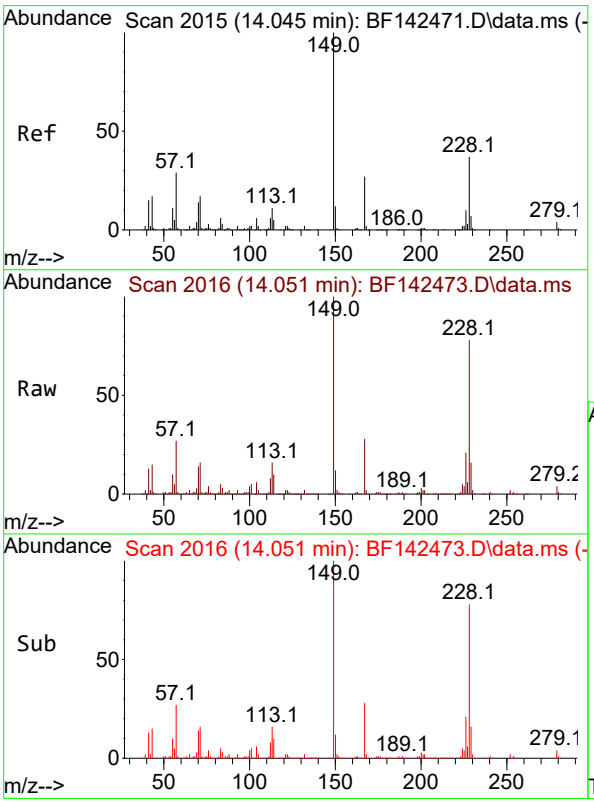
#83
Chrysene
Concen: 61.153 ng
RT: 14.098 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 526831

Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.8	35.6
229	19.6	15.4	23.2

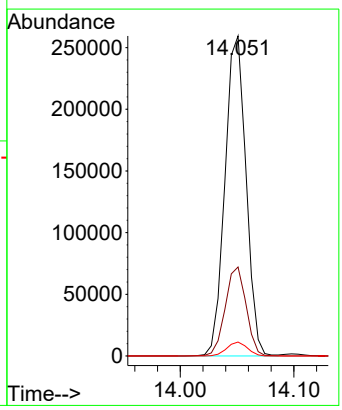


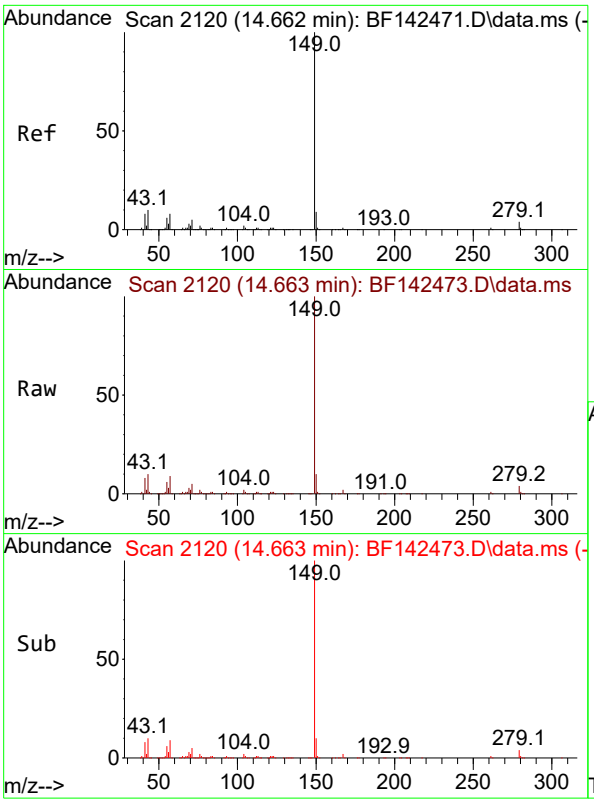


#84
Bis(2-ethylhexyl)phthalate
Concen: 70.698 ng
RT: 14.051 min Scan# 2016
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:149 Resp: 334950

Ion	Ratio	Lower	Upper
149	100		
167	27.8	21.5	32.3
279	4.4	3.2	4.8



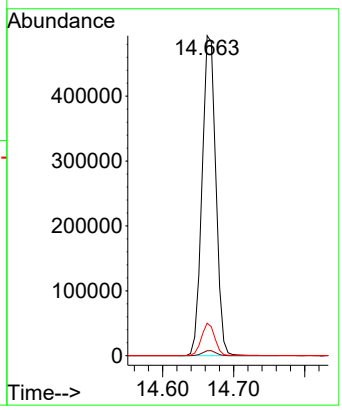


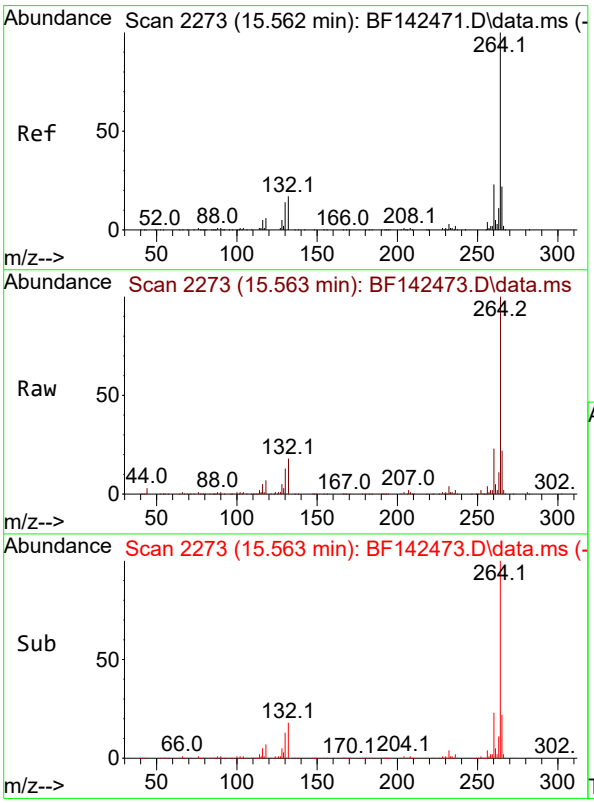
#85
Di-n-octyl phthalate
Concen: 71.701 ng
RT: 14.663 min Scan# 21
Delta R.T. -0.005 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:149 Resp: 664220

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	9.8	7.9	11.9

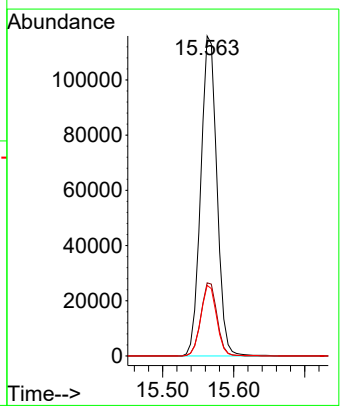


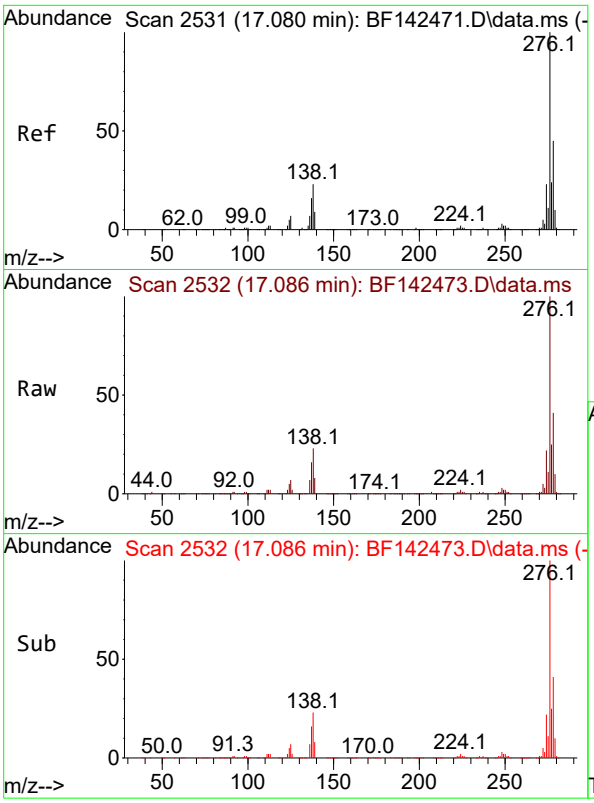


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:264 Resp: 183052

Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.6	28.0
265	22.0	17.7	26.5



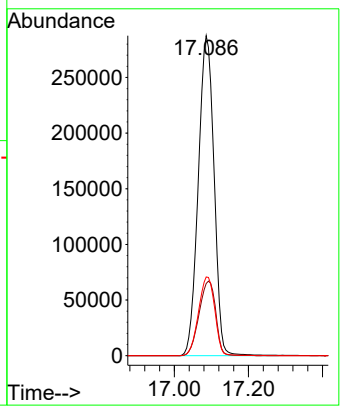


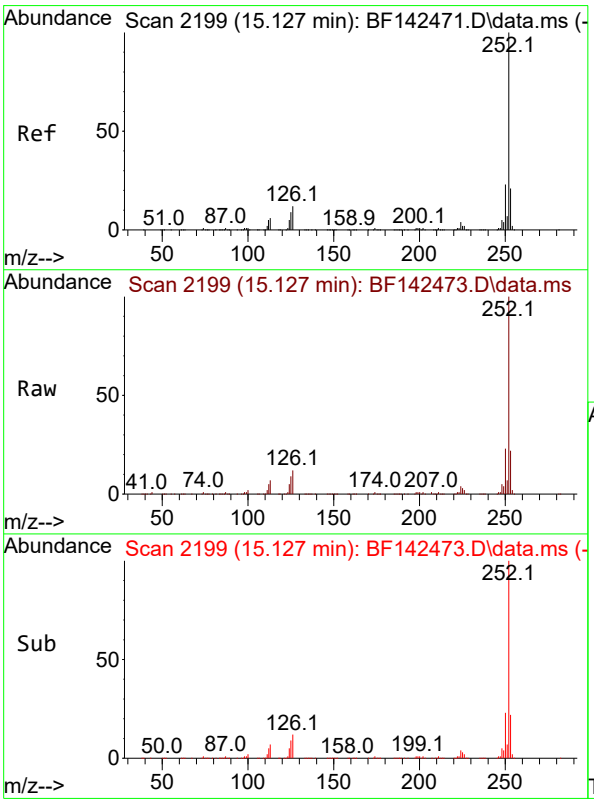
#87
Indeno(1,2,3-cd)pyrene
Concen: 61.761 ng
RT: 17.086 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:276 Resp: 848752

Ion	Ratio	Lower	Upper
276	100		
138	24.6	19.9	29.9
277	25.3	20.2	30.2

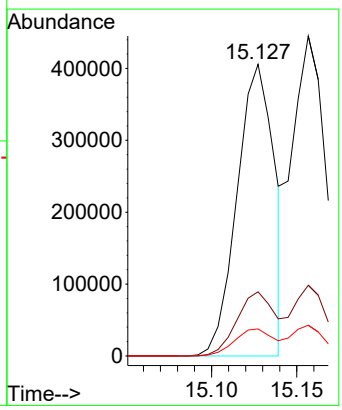


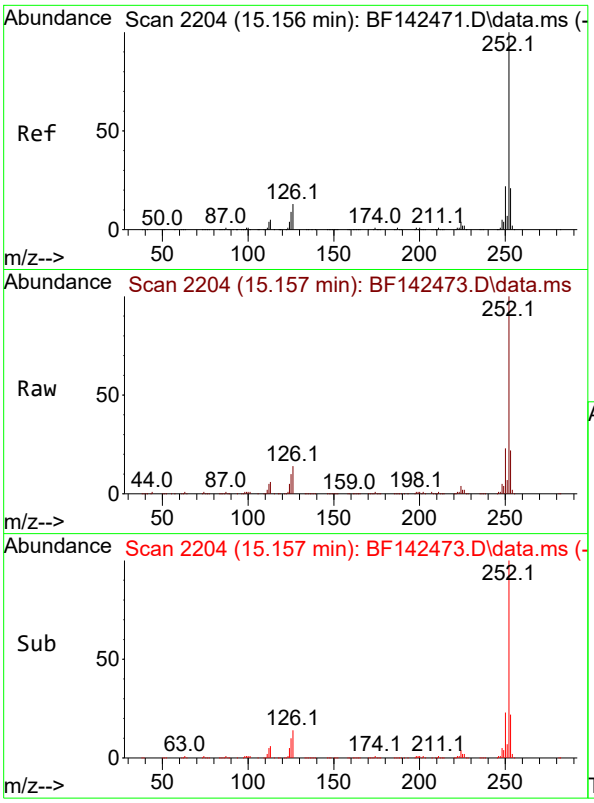


#88
Benzo(b)fluoranthene
Concen: 56.878 ng
RT: 15.127 min Scan# 2199
Delta R.T. 0.000 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:252 Resp: 616210

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.0	25.4
125	9.3	7.4	11.0



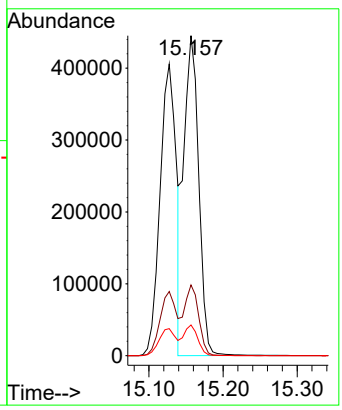


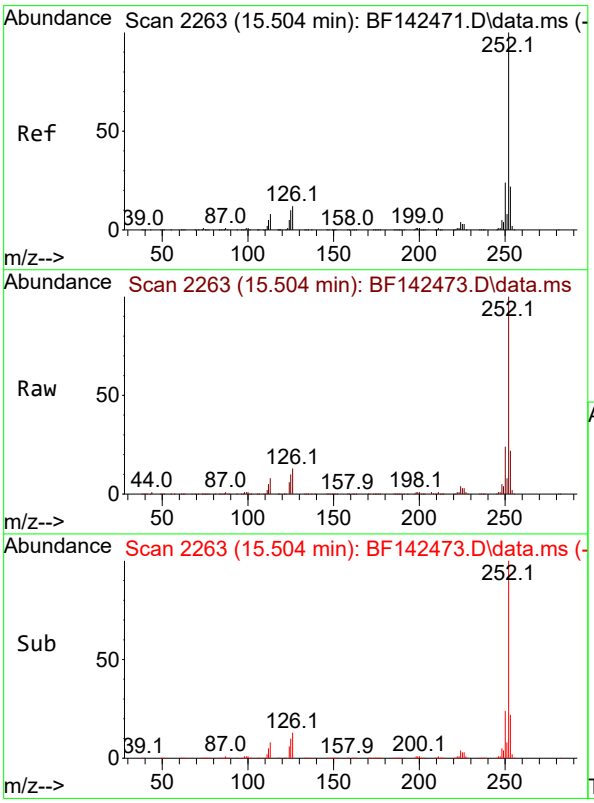
#89
Benzo(k)fluoranthene
Concen: 61.068 ng
RT: 15.157 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:252 Resp: 619660

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.0	25.4
125	9.6	7.3	10.9

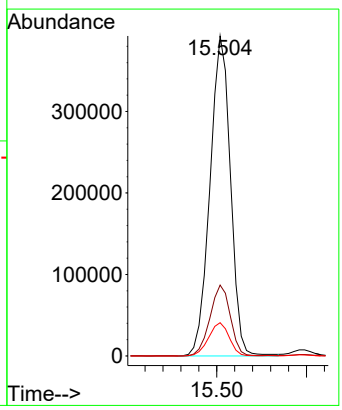


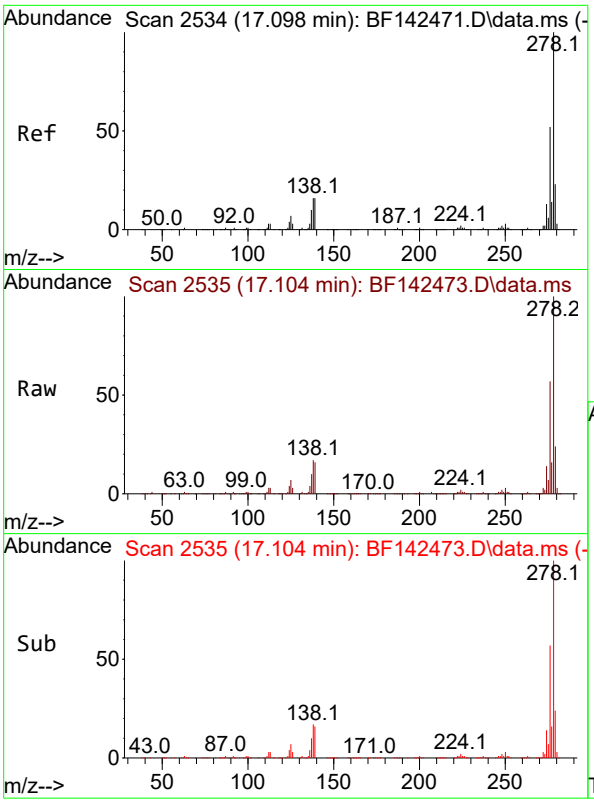


#90
Benzo(a)pyrene
Concen: 60.943 ng
RT: 15.504 min Scan# 2263
Delta R.T. -0.006 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:252 Resp: 622347

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.4	26.0
125	10.4	7.9	11.9



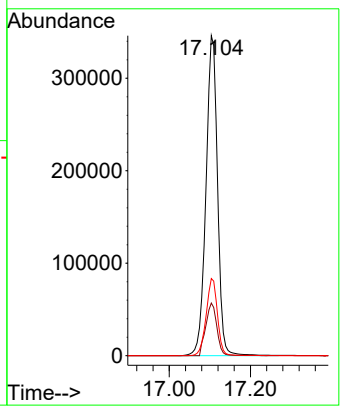


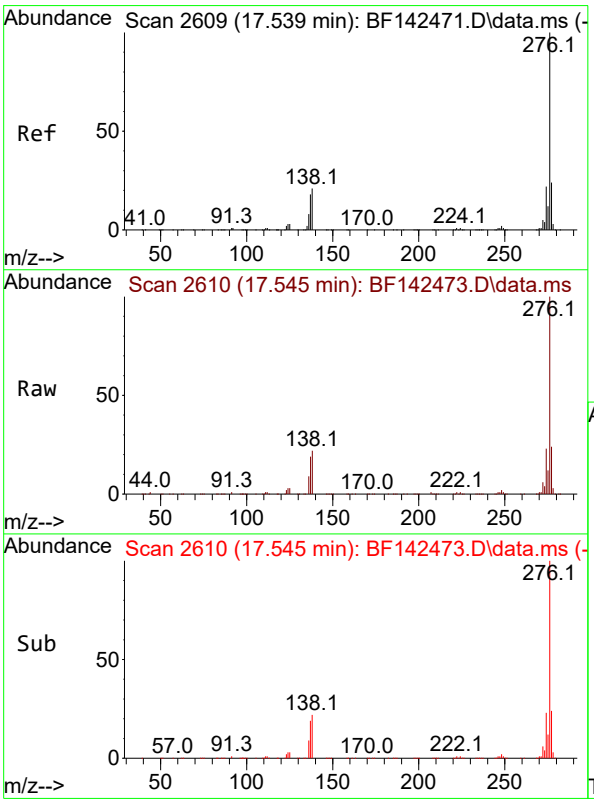
#91
Dibenzo(a,h)anthracene
Concen: 61.321 ng
RT: 17.104 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:278 Resp: 683473

Ion	Ratio	Lower	Upper
278	100		
139	16.5	12.8	19.2
279	24.1	18.6	28.0

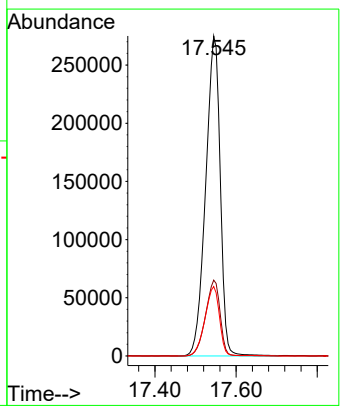




#92
Benzo(g,h,i)perylene
Concen: 61.313 ng
RT: 17.545 min Scan# 2610
Delta R.T. -0.012 min
Lab File: BF142473.D
Acq: 20 May 2025 15:03

Tgt Ion:276 Resp: 683528

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.2	28.8
138	21.7	16.8	25.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142474.D
Acq On : 20 May 2025 15:31
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: May 20 16:55:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.904	152	92899	20.000	ng		0.00
21) Naphthalene-d8	8.186	136	358380	20.000	ng		0.00
39) Acenaphthene-d10	9.945	164	188198	20.000	ng		0.00
64) Phenanthrene-d10	11.433	188	287337	20.000	ng		0.00
76) Chrysene-d12	14.074	240	154555	20.000	ng		0.00
86) Perylene-d12	15.568	264	196342	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	815861	147.959	ng		0.00
7) Phenol-d6	6.534	99	986649	148.644	ng		0.00
23) Nitrobenzene-d5	7.475	82	993768	151.205	ng		0.00
42) 2,4,6-Tribromophenol	10.739	330	304807	145.927	ng		0.00
45) 2-Fluorobiphenyl	9.269	172	1908541	136.080	ng		0.00
79) Terphenyl-d14	13.015	244	1392704	123.140	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.663	88	169363	76.756	ng		100
3) Pyridine	3.440	79	442247	78.706	ng		98
4) n-Nitrosodimethylamine	3.404	42	230814	79.114	ng		97
6) Aniline	6.569	93	671713	75.263	ng		99
8) 2-Chlorophenol	6.686	128	454577	75.687	ng		98
9) Benzaldehyde	6.451	77	219574	54.999	ng		97
10) Phenol	6.551	94	552574	73.985	ng		87
11) bis(2-Chloroethyl)ether	6.639	93	410501	76.354	ng		100
12) 1,3-Dichlorobenzene	6.845	146	489261	73.004	ng		100
13) 1,4-Dichlorobenzene	6.922	146	495948	73.465	ng		99
14) 1,2-Dichlorobenzene	7.075	146	477210	73.875	ng		100
15) Benzyl Alcohol	7.045	79	381381	77.750	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.181	45	663576	73.497	ng		99
17) 2-Methylphenol	7.151	107	358569	76.467	ng		99
18) Hexachloroethane	7.416	117	177426	75.267	ng		98
19) n-Nitroso-di-n-propyla...	7.328	70	304362	73.987	ng		97
20) 3+4-Methylphenols	7.310	107	426933	71.097	ng		94
22) Acetophenone	7.316	105	571777	72.072	ng	#	95
24) Nitrobenzene	7.492	77	452330	76.309	ng		98
25) Isophorone	7.733	82	838652	76.321	ng		99
26) 2-Nitrophenol	7.804	139	248427	78.434	ng		99
27) 2,4-Dimethylphenol	7.839	122	422403	75.623	ng		99
28) bis(2-Chloroethoxy)met...	7.939	93	513063	74.744	ng		98
29) 2,4-Dichlorophenol	8.045	162	381590	75.121	ng		99
30) 1,2,4-Trichlorobenzene	8.128	180	406857	73.801	ng		98
31) Naphthalene	8.210	128	1277048	72.369	ng		99
32) Benzoic acid	7.975	122	288731	84.918	ng		99
33) 4-Chloroaniline	8.257	127	492168	68.830	ng		100
34) Hexachlorobutadiene	8.328	225	252445	73.338	ng		98
35) Caprolactam	8.645	113	109232	76.565	ng		100
36) 4-Chloro-3-methylphenol	8.739	107	388740	74.674	ng		99
37) 2-Methylnaphthalene	8.898	142	796463	71.742	ng		100
38) 1-Methylnaphthalene	8.998	142	811747	70.689	ng		99
40) 1,2,4,5-Tetrachloroben...	9.069	216	409177	75.740	ng		100
41) Hexachlorocyclopentadiene	9.051	237	309537	84.936	ng		100
43) 2,4,6-Trichlorophenol	9.175	196	285072	78.254	ng		97

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142474.D
Acq On : 20 May 2025 15:31
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: May 20 16:55:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

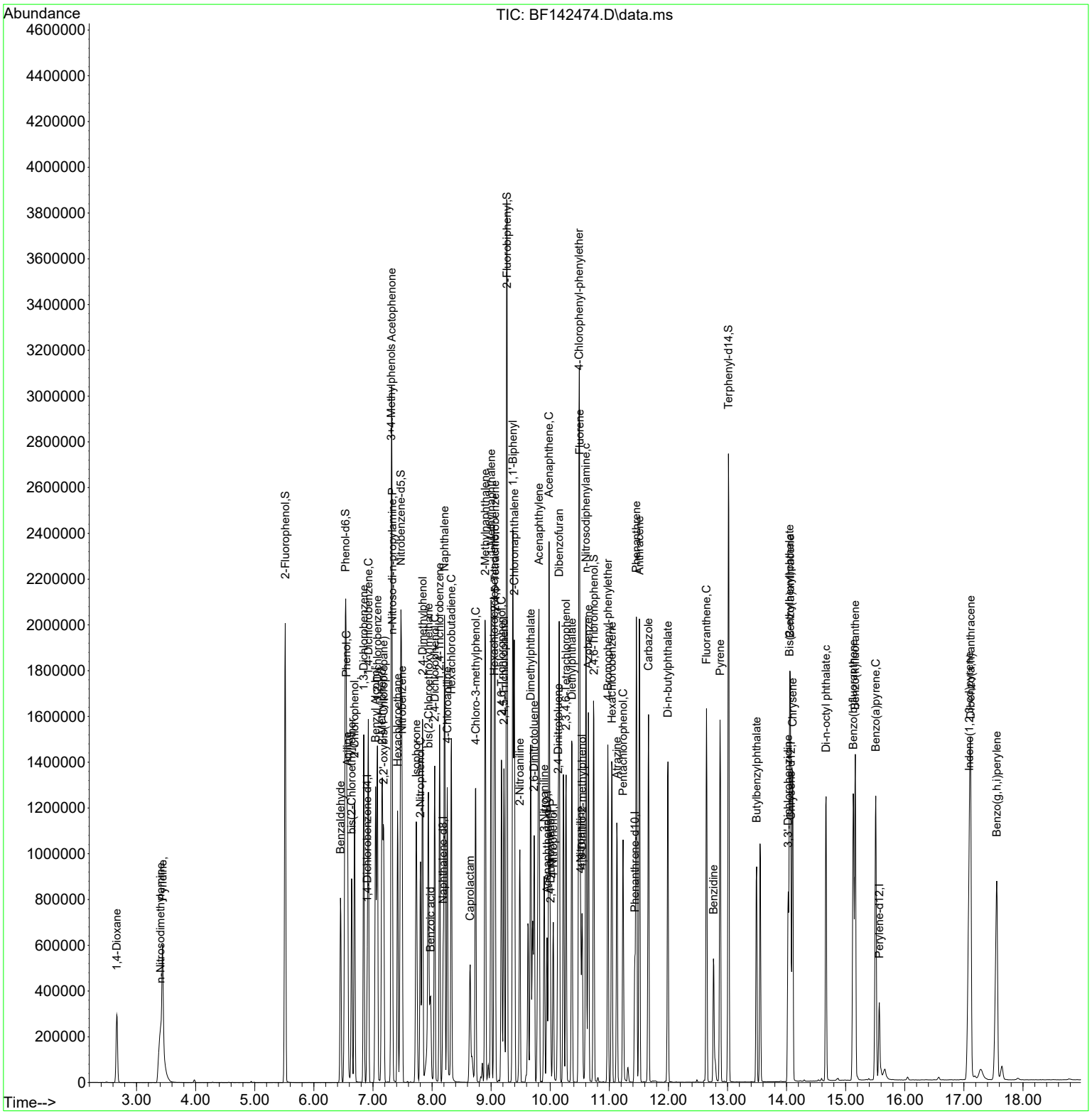
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.216	196	287041	74.712	ng	99
46) 1,1'-Biphenyl	9.369	154	1059787	72.584	ng	100
47) 2-Chloronaphthalene	9.392	162	798539	74.024	ng	99
48) 2-Nitroaniline	9.486	65	241162	77.343	ng	99
49) Acenaphthylene	9.810	152	1313668	72.118	ng	99
50) Dimethylphthalate	9.669	163	911534	73.405	ng	100
51) 2,6-Dinitrotoluene	9.727	165	201545	75.198	ng	96
52) Acenaphthene	9.980	154	810811	72.896	ng	100
53) 3-Nitroaniline	9.898	138	216422	73.930	ng	100
54) 2,4-Dinitrophenol	10.004	184	119082	85.999	ng	94
55) Dibenzofuran	10.151	168	1136276	70.990	ng	99
56) 4-Nitrophenol	10.051	139	165537	76.638	ng	99
57) 2,4-Dinitrotoluene	10.133	165	259035	74.005	ng	99
58) Fluorene	10.498	166	857882	69.377	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.269	232	238382	74.324	ng	99
60) Diethylphthalate	10.369	149	858326	70.773	ng	100
61) 4-Chlorophenyl-phenyle...	10.486	204	426386	70.193	ng	99
62) 4-Nitroaniline	10.516	138	188782	71.105	ng	98
63) Azobenzene	10.645	77	794029	72.893	ng	98
65) 4,6-Dinitro-2-methylph...	10.539	198	141863	88.468	ng	99
66) n-Nitrosodiphenylamine	10.604	169	758366	77.145	ng	99
67) 4-Bromophenyl-phenylether	10.974	248	264739	77.920	ng	98
68) Hexachlorobenzene	11.045	284	287676	76.555	ng	98
69) Atrazine	11.127	200	199929	76.581	ng	99
70) Pentachlorophenol	11.233	266	177504	83.666	ng	99
71) Phenanthrene	11.457	178	1107683	72.134	ng	100
72) Anthracene	11.510	178	1144182	73.009	ng	99
73) Carbazole	11.663	167	956069	71.360	ng	99
74) Di-n-butylphthalate	11.992	149	1043468	71.153	ng	100
75) Fluoranthene	12.645	202	972105	67.750	ng	99
77) Benzidine	12.763	184	343909	59.795	ng	100
78) Pyrene	12.874	202	931844	64.632	ng	100
80) Butylbenzylphthalate	13.492	149	319716	80.252	ng	98
81) Benzo(a)anthracene	14.062	228	765441	74.167	ng	99
82) 3,3'-Dichlorobenzidine	14.027	252	257542	82.274	ng	99
83) Chrysene	14.104	228	715970	77.206	ng	100
84) Bis(2-ethylhexyl)phtha...	14.051	149	449654	88.168	ng	99
85) Di-n-octyl phthalate	14.668	149	888230	89.073	ng	99
87) Indeno(1,2,3-cd)pyrene	17.092	276	1126401	76.417	ng	100
88) Benzo(b)fluoranthene	15.127	252	874640	75.267	ng	98
89) Benzo(k)fluoranthene	15.162	252	803775	73.850	ng	99
90) Benzo(a)pyrene	15.509	252	833783	76.121	ng	99
91) Dibenzo(a,h)anthracene	17.115	278	902757	75.513	ng	99
92) Benzo(g,h,i)perylene	17.556	276	909649	76.073	ng	99

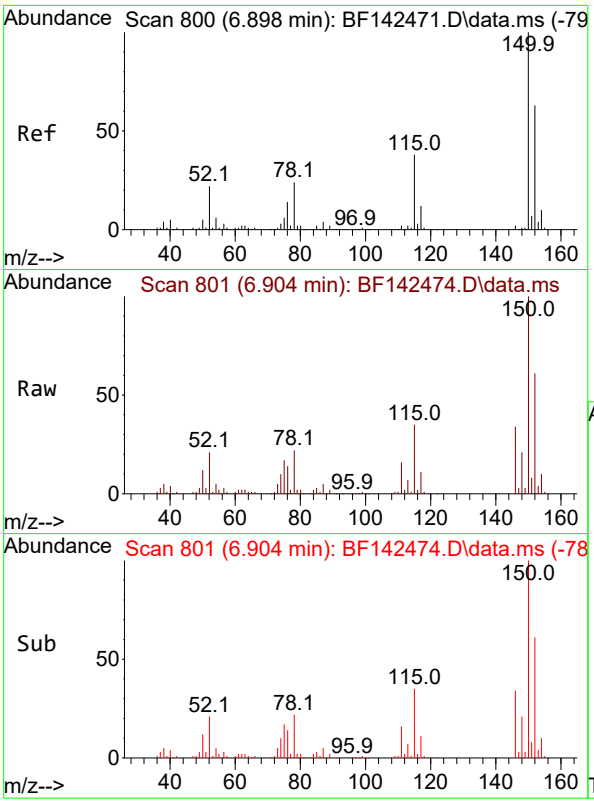
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142474.D
Acq On : 20 May 2025 15:31
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: May 20 16:55:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



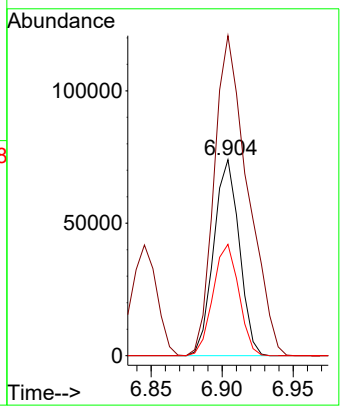


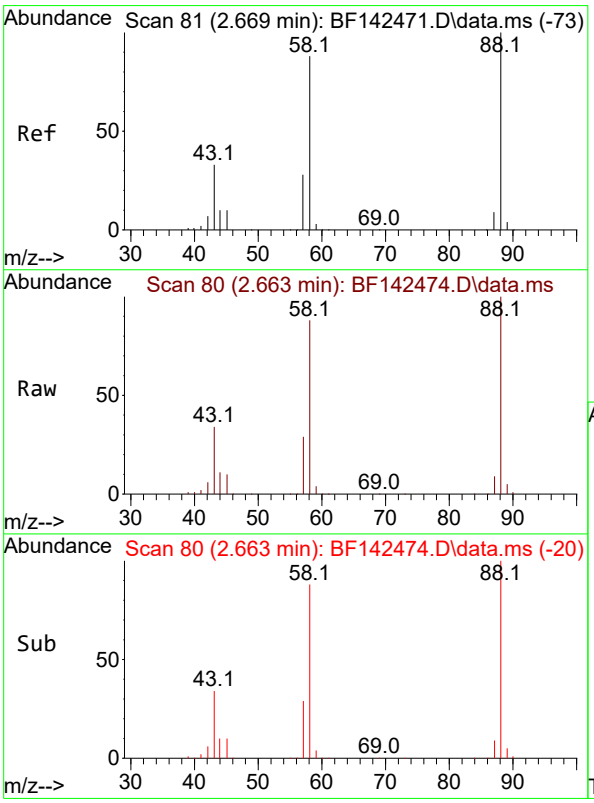
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.904 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:152 Resp: 92899

Ion	Ratio	Lower	Upper
152	100		
150	163.3	128.2	192.4
115	56.9	48.3	72.5

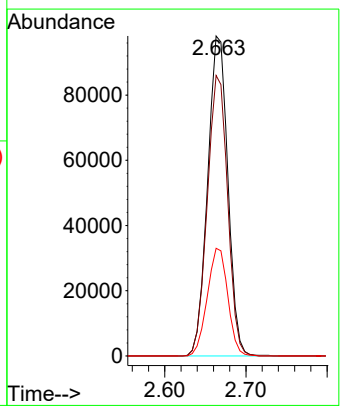


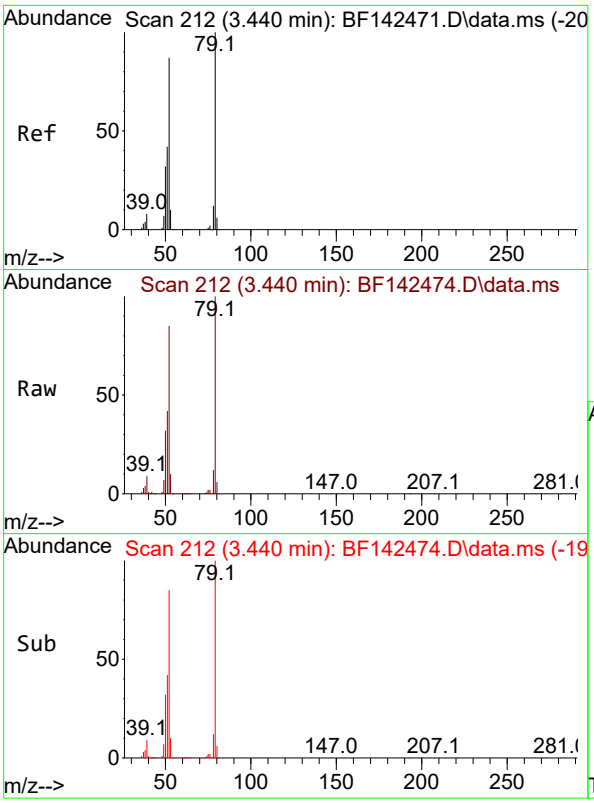


#2
1,4-Dioxane
Concen: 76.756 ng
RT: 2.663 min Scan# 80
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion: 88 Resp: 169363

Ion	Ratio	Lower	Upper
88	100		
58	88.4	70.8	106.2
43	34.1	26.6	40.0



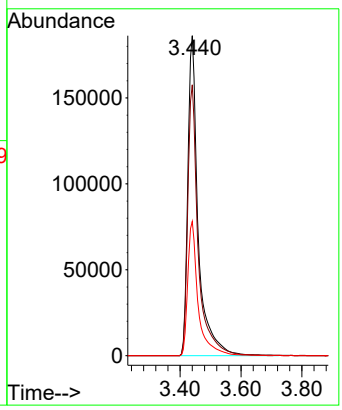


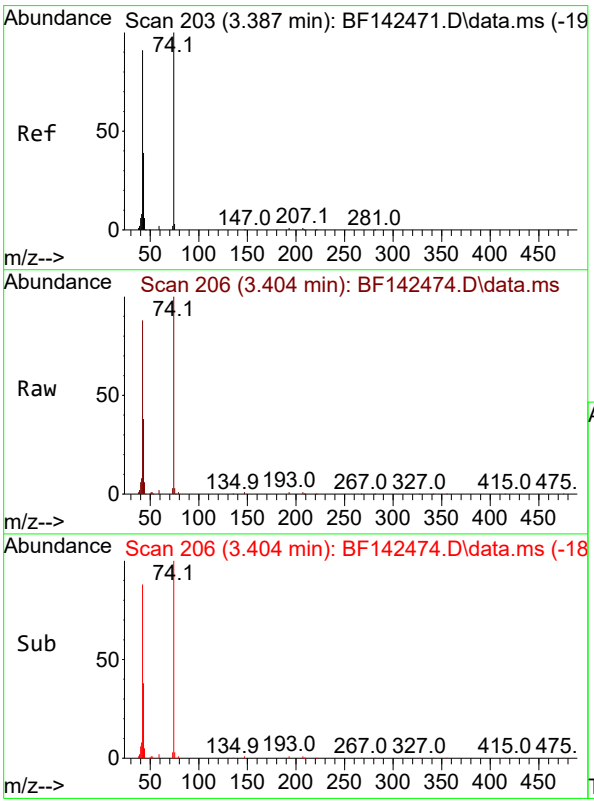
#3
Pyridine
Concen: 78.706 ng
RT: 3.440 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 79 Resp: 442247

Ion	Ratio	Lower	Upper
79	100		
52	84.6	69.2	103.8
51	42.0	33.3	49.9

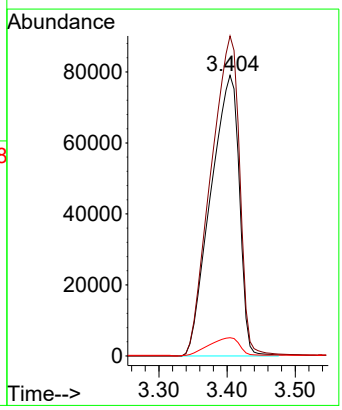


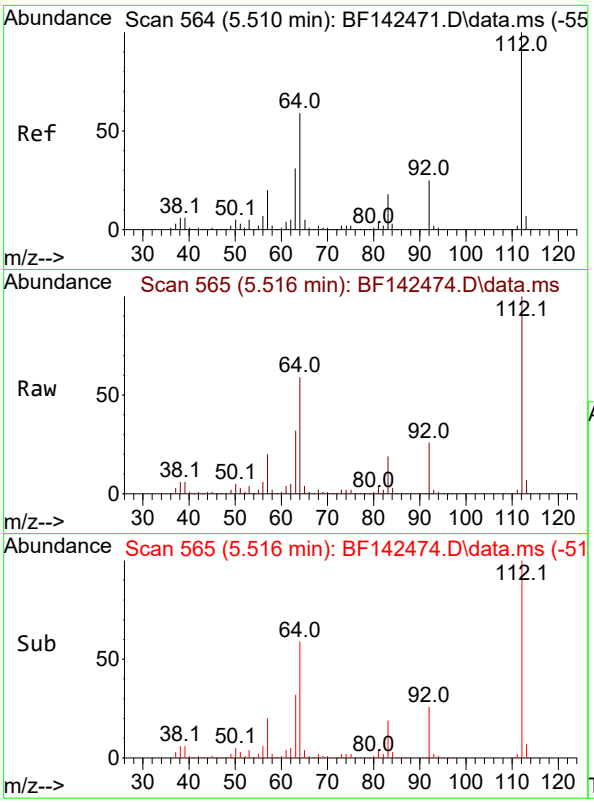


#4
n-Nitrosodimethylamine
Concen: 79.114 ng
RT: 3.404 min Scan# 206
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion: 42 Resp: 230814

Ion	Ratio	Lower	Upper
42	100		
74	114.0	88.2	132.4
44	6.5	5.4	8.2



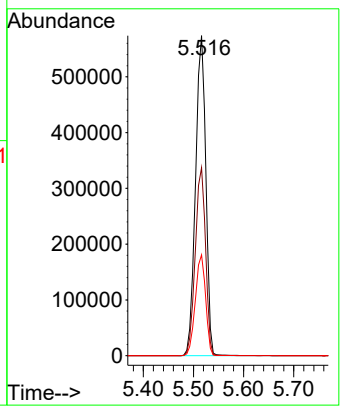


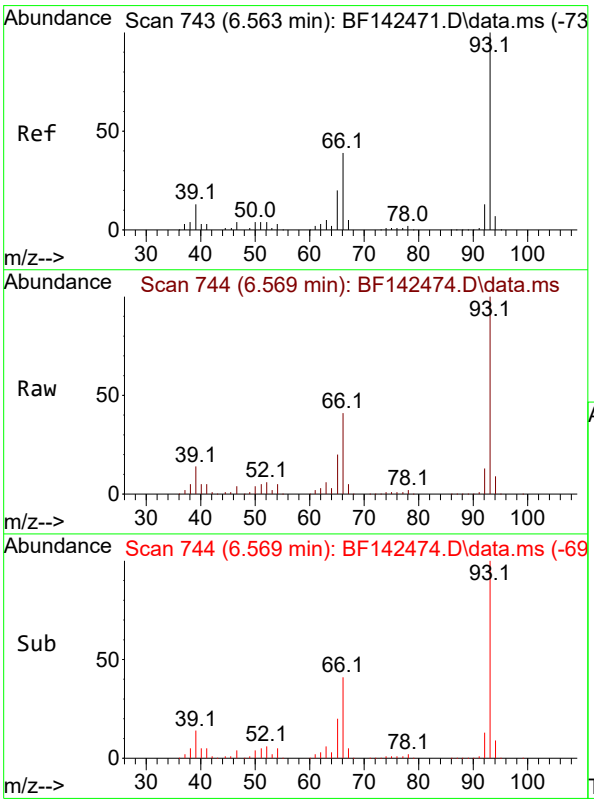
#5
2-Fluorophenol
Concen: 147.959 ng
RT: 5.516 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:112 Resp: 815861

Ion	Ratio	Lower	Upper
112	100		
64	58.7	47.5	71.3
63	31.5	24.9	37.3

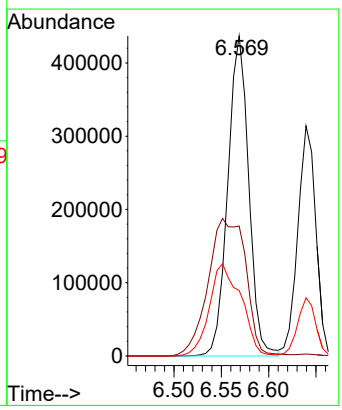


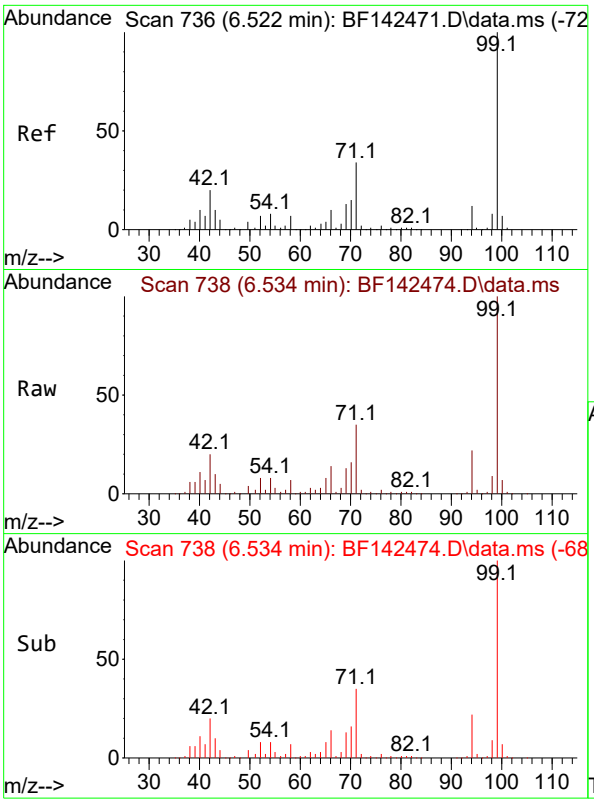


#6
Aniline
Concen: 75.263 ng
RT: 6.569 min Scan# 744
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion: 93 Resp: 671713

Ion	Ratio	Lower	Upper
93	100		
66	40.6	32.0	48.0
65	20.5	16.1	24.1



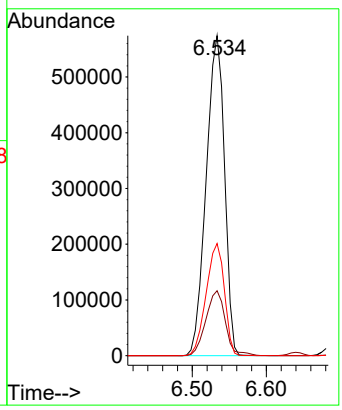


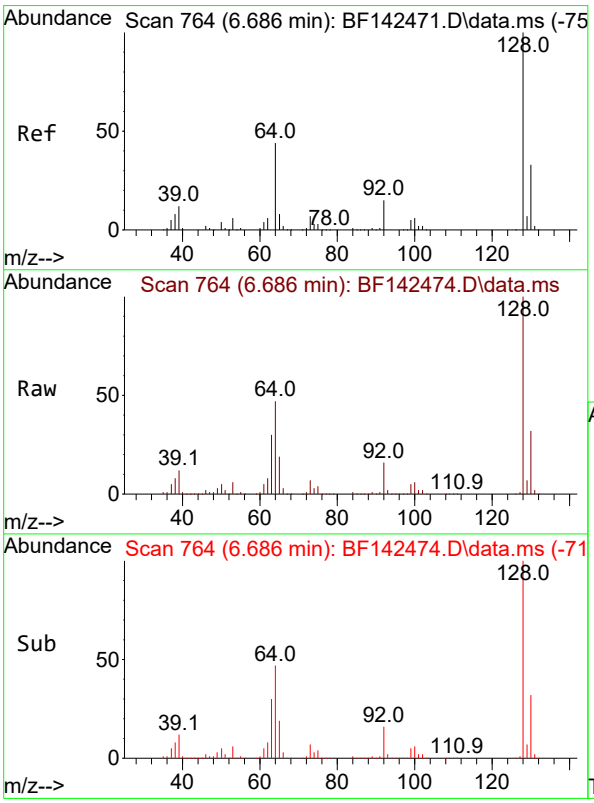
#7
Phenol-d6
Concen: 148.644 ng
RT: 6.534 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 99 Resp: 986649

Ion	Ratio	Lower	Upper
99	100		
42	20.3	16.2	24.2
71	35.1	27.3	40.9

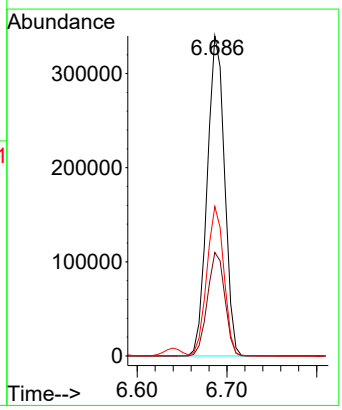


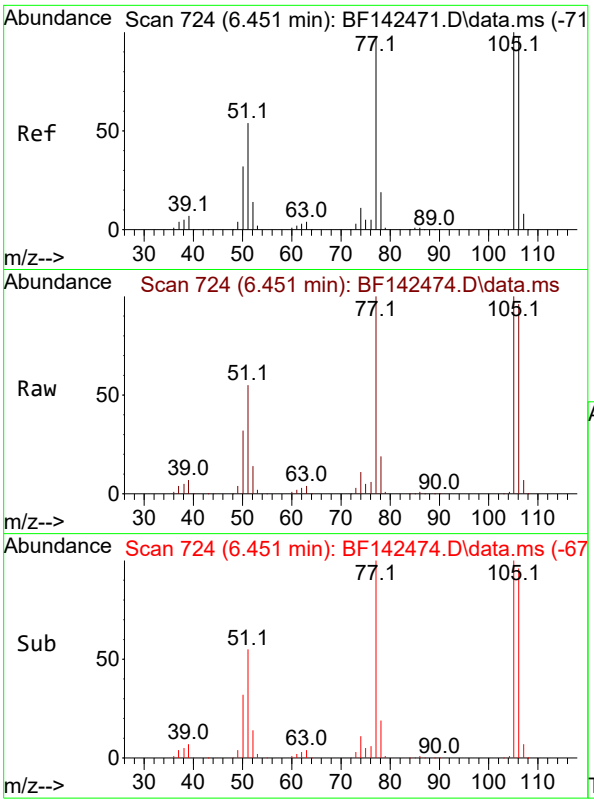


#8
2-Chlorophenol
Concen: 75.687 ng
RT: 6.686 min Scan# 764
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:128 Resp: 454577

Ion	Ratio	Lower	Upper
128	100		
130	32.3	12.6	52.6
64	46.7	25.1	65.1



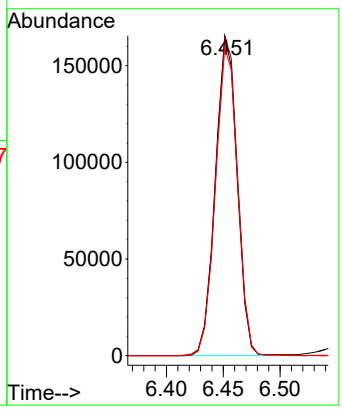


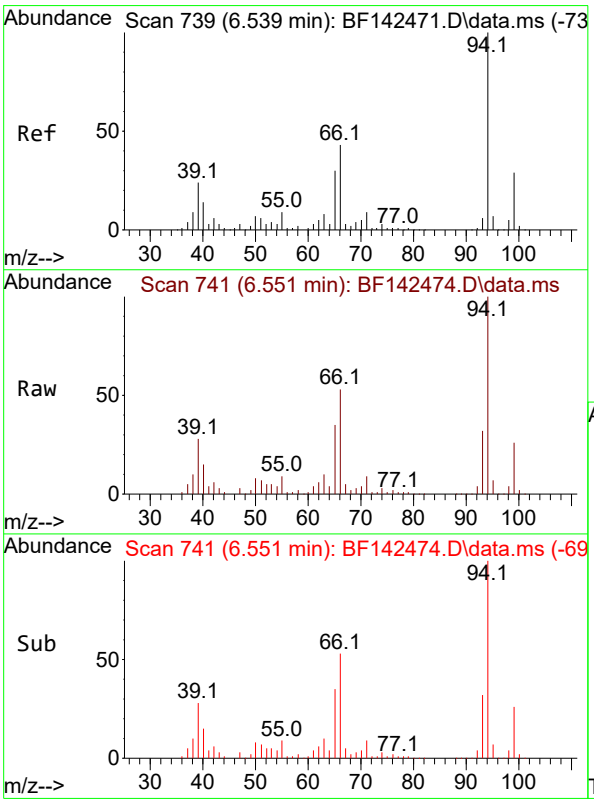
#9
Benzaldehyde
Concen: 54.999 ng
RT: 6.451 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 77 Resp: 219574

Ion	Ratio	Lower	Upper
77	100		
105	100.3	82.5	122.5
106	96.4	80.0	120.0

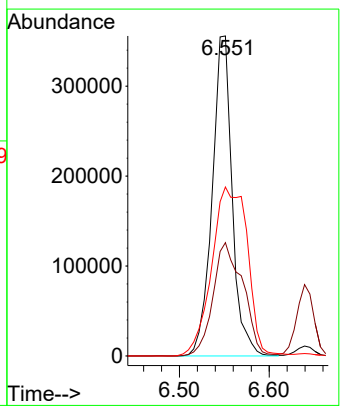


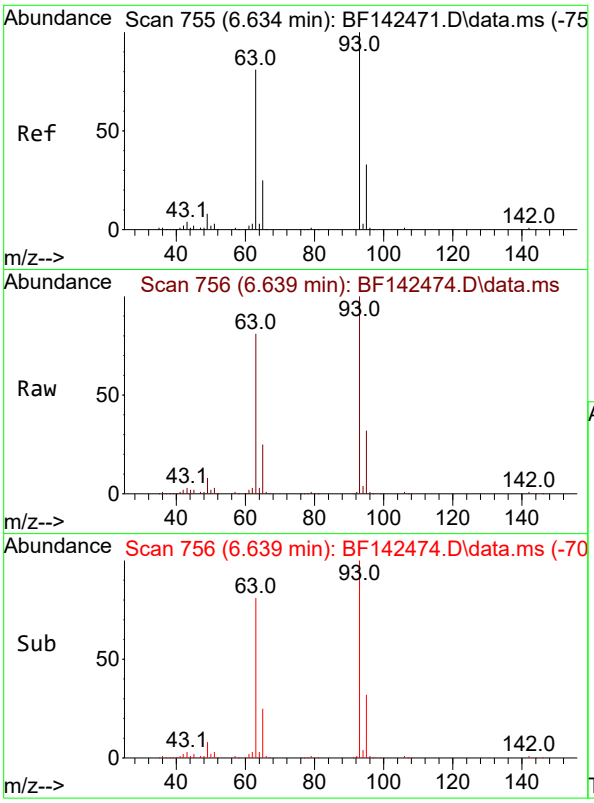


#10
Phenol
Concen: 73.985 ng
RT: 6.551 min Scan# 741
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion: 94 Resp: 552574

Ion	Ratio	Lower	Upper
94	100		
65	35.4	10.3	50.3
66	52.8	22.6	62.6



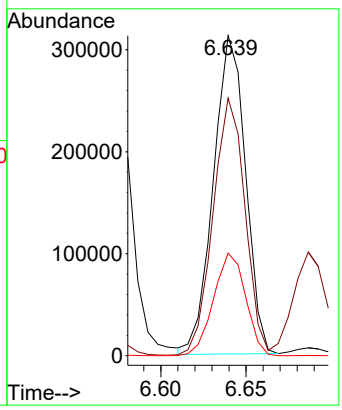


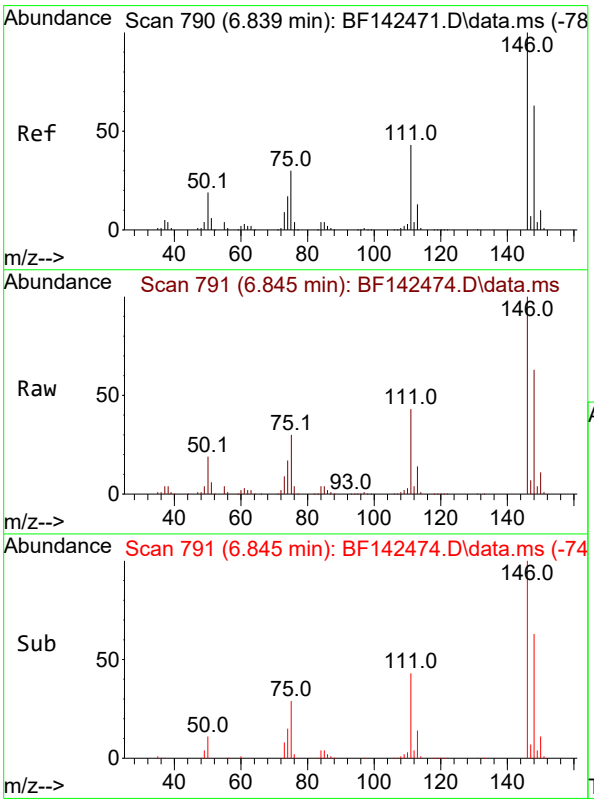
#11
bis(2-Chloroethyl)ether
Concen: 76.354 ng
RT: 6.639 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 93 Resp: 410501

Ion	Ratio	Lower	Upper
93	100		
63	80.5	60.2	100.2
95	32.1	12.3	52.3

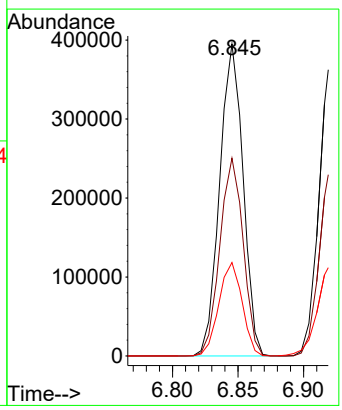


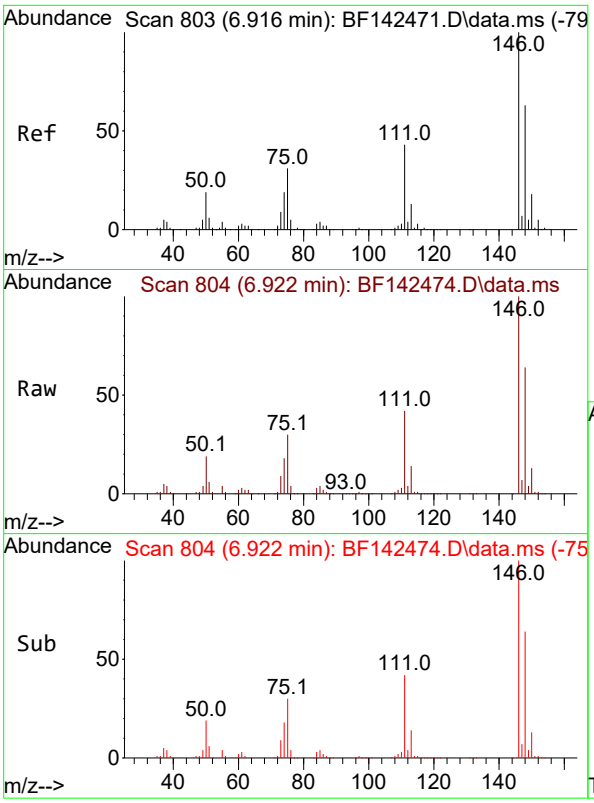


#12
1,3-Dichlorobenzene
Concen: 73.004 ng
RT: 6.845 min Scan# 791
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:146 Resp: 489261

Ion	Ratio	Lower	Upper
146	100		
148	63.4	50.6	75.8
75	30.0	23.8	35.6



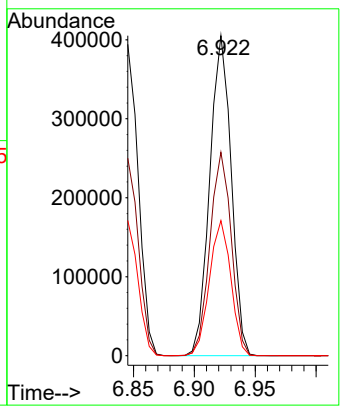


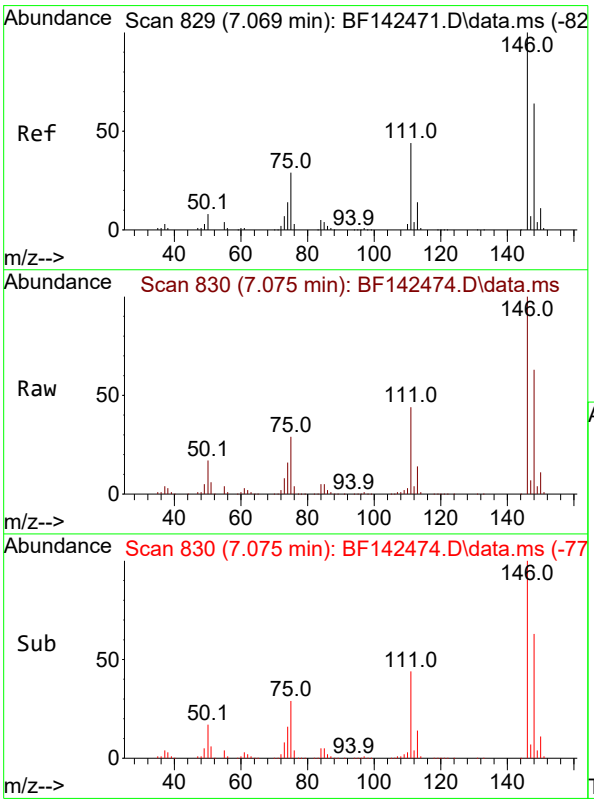
#13
1,4-Dichlorobenzene
Concen: 73.465 ng
RT: 6.922 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:146 Resp: 495948

Ion	Ratio	Lower	Upper
146	100		
148	63.6	50.4	75.6
111	42.2	34.1	51.1

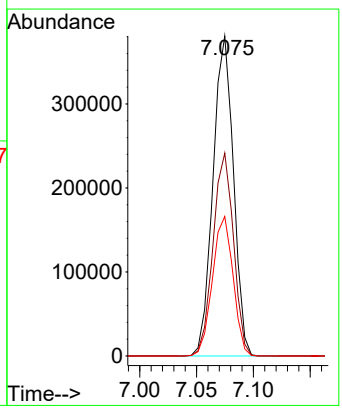


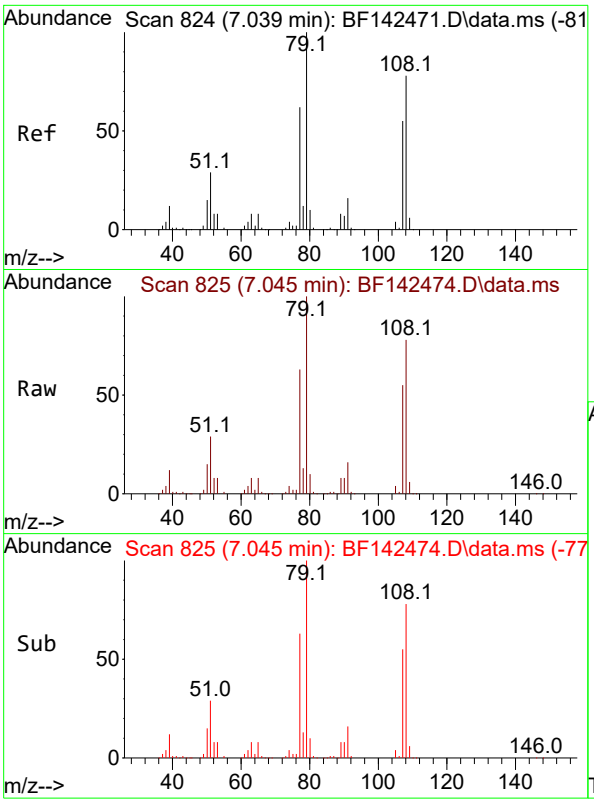


#14
1,2-Dichlorobenzene
Concen: 73.875 ng
RT: 7.075 min Scan# 830
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:146 Resp: 477210

Ion	Ratio	Lower	Upper
146	100		
148	63.4	51.0	76.4
111	43.6	35.0	52.6



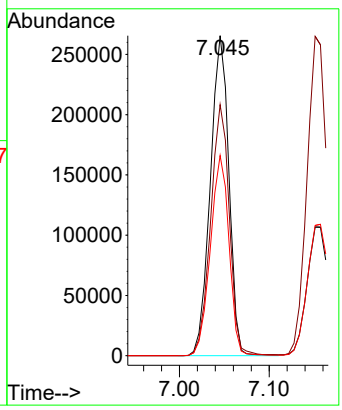


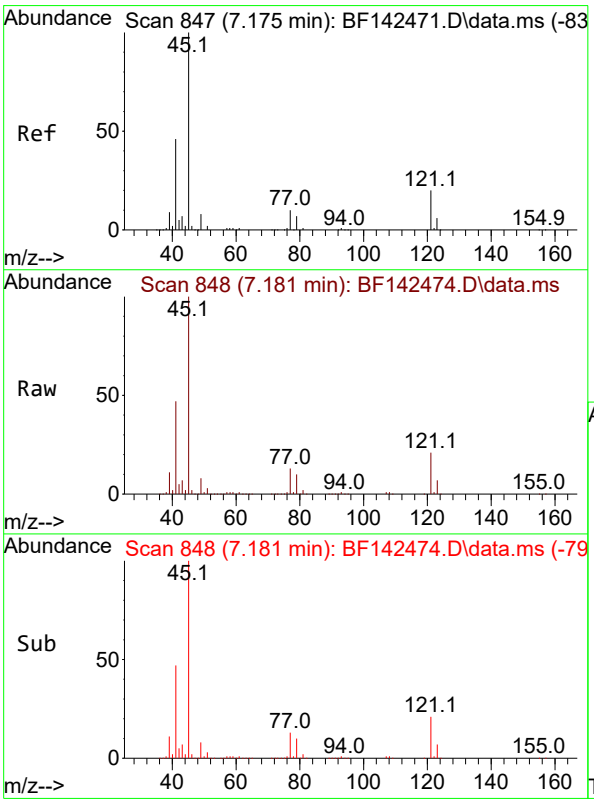
#15
Benzyl Alcohol
Concen: 77.750 ng
RT: 7.045 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 79 Resp: 381381

Ion	Ratio	Lower	Upper
79	100		
108	78.5	62.1	93.1
77	62.5	49.5	74.3

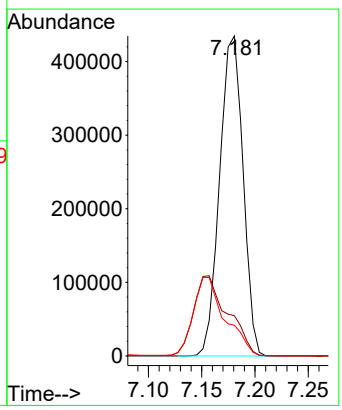


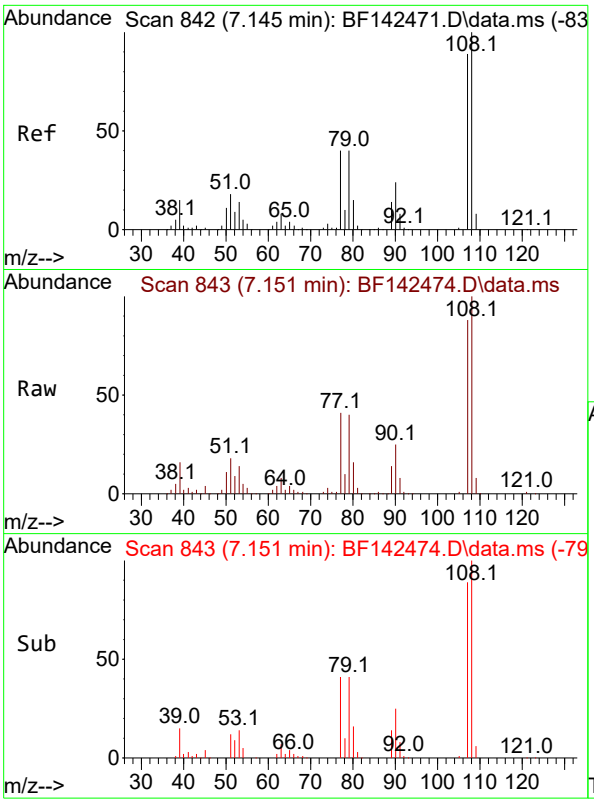


#16
2,2'-oxybis(1-Chloropropane)
Concen: 73.497 ng
RT: 7.181 min Scan# 848
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion: 45 Resp: 663576

Ion	Ratio	Lower	Upper
45	100		
77	12.6	0.0	32.0
79	9.6	0.0	29.2



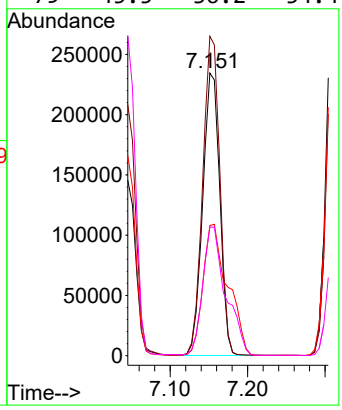


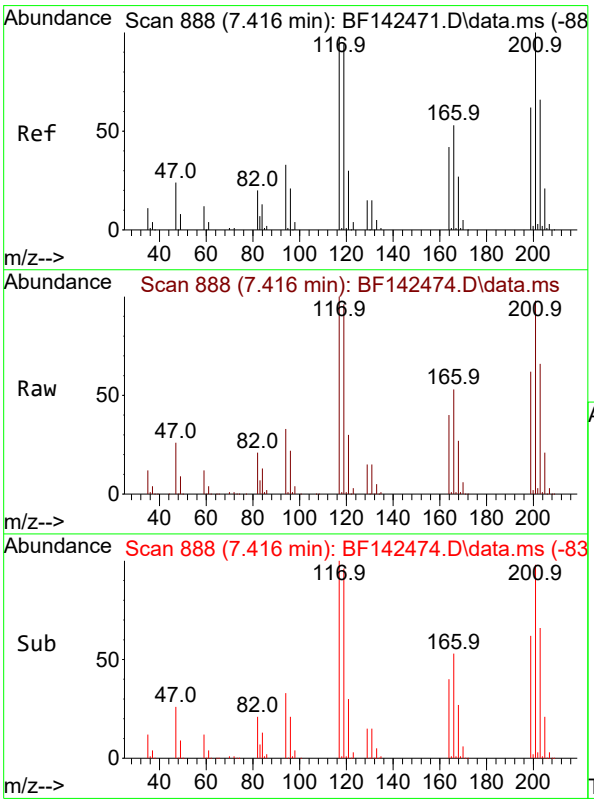
#17
2-Methylphenol
Concen: 76.467 ng
RT: 7.151 min Scan# 84
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:107 Resp: 358569

Ion	Ratio	Lower	Upper
107	100		
108	113.0	90.2	135.2
77	46.1	36.1	54.1
79	45.5	36.2	54.4

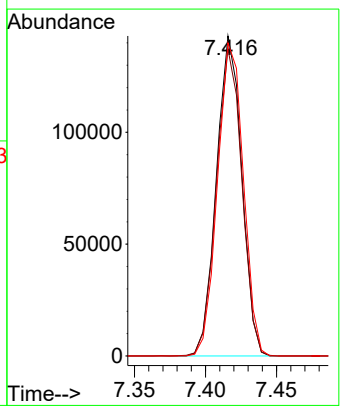


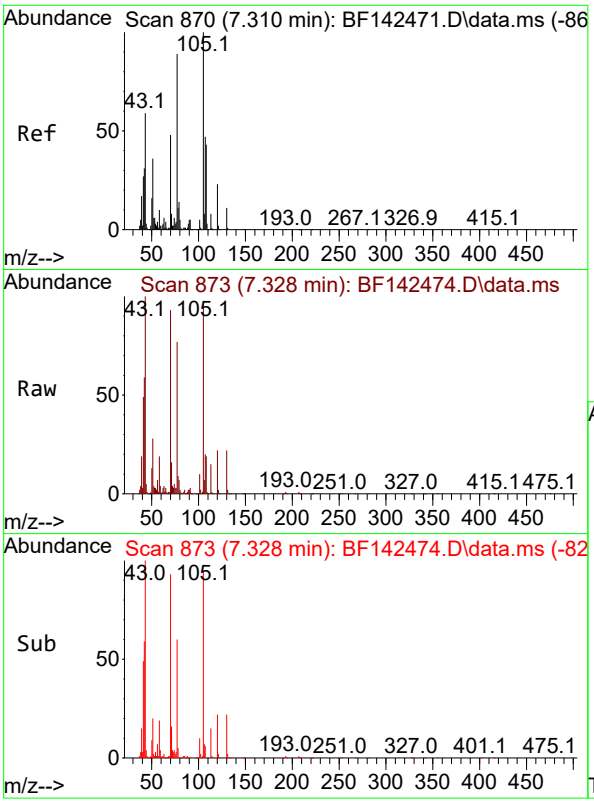


#18
Hexachloroethane
Concen: 75.267 ng
RT: 7.416 min Scan# 888
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:117 Resp: 177426

Ion	Ratio	Lower	Upper
117	100		
119	96.0	76.6	114.8
201	97.9	81.3	121.9



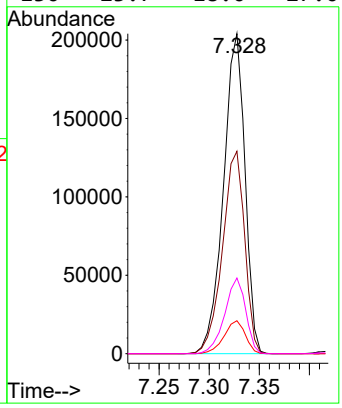


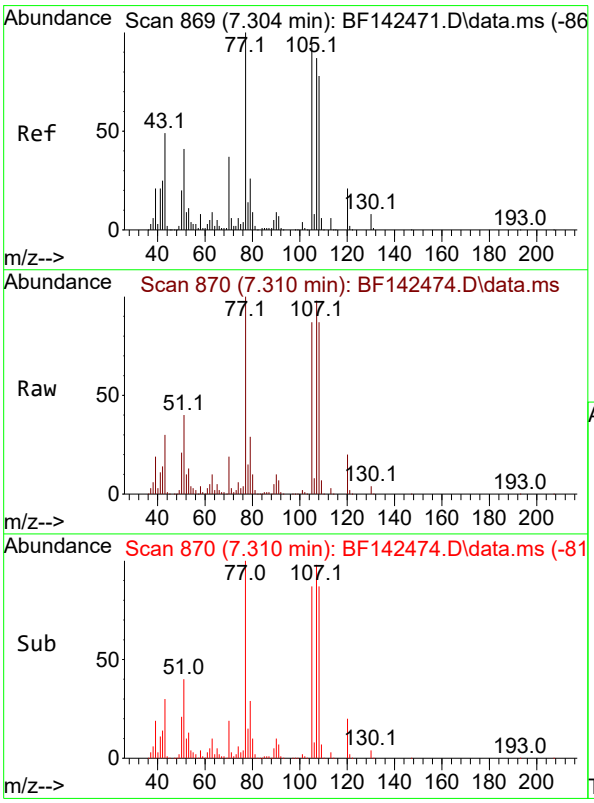
#19
n-Nitroso-di-n-propylamine
Concen: 73.987 ng
RT: 7.328 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 70 Resp: 304362

Ion	Ratio	Lower	Upper
70	100		
42	63.3	52.4	78.6
101	10.3	7.8	11.8
130	23.7	18.0	27.0

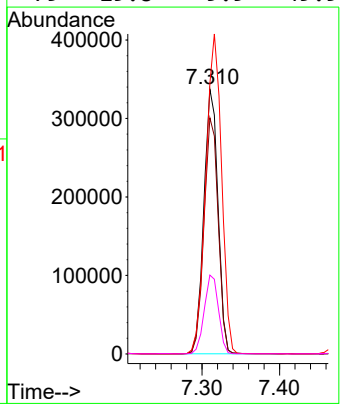


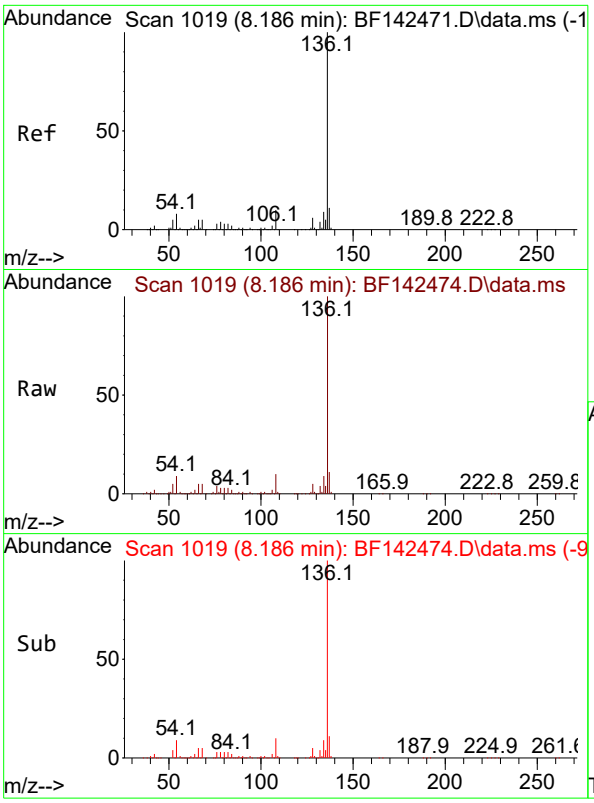


#20
3+4-Methylphenols
Concen: 71.097 ng
RT: 7.310 min Scan# 870
Delta R.T. -0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:107 Resp: 426933

Ion	Ratio	Lower	Upper
107	100		
108	89.2	70.4	110.4
77	102.1	95.4	135.4
79	29.8	9.9	49.9



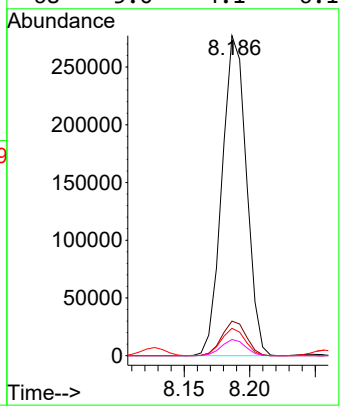


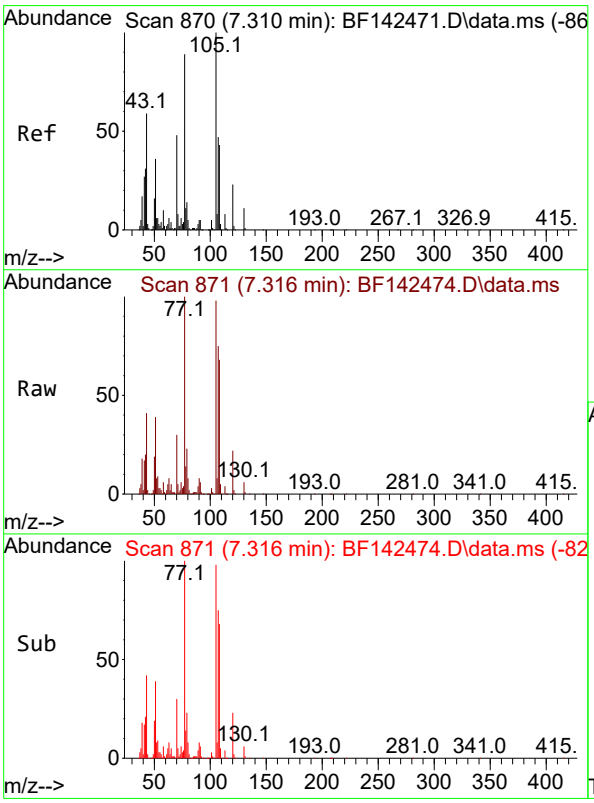
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:136 Resp: 358380

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.5	6.6	10.0
68	5.0	4.1	6.1

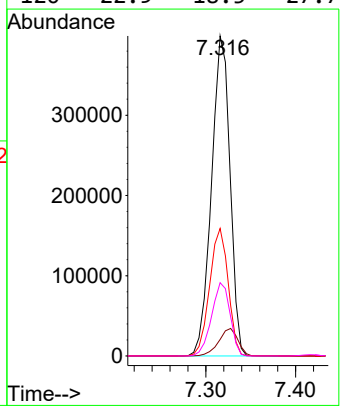


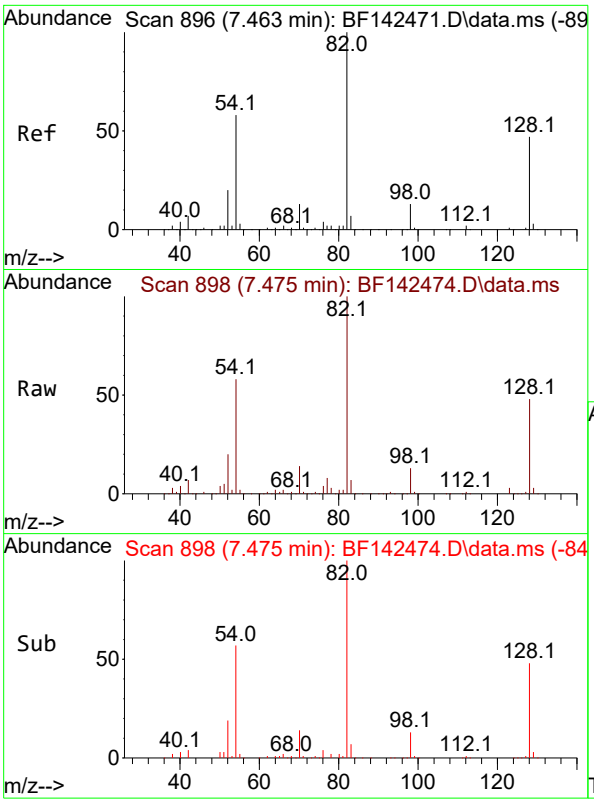


#22
Acetophenone
Concen: 72.072 ng
RT: 7.316 min Scan# 871
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:105 Resp: 571777

Ion	Ratio	Lower	Upper
105	100		
71	5.2	6.4	9.6#
51	39.9	28.6	42.8
120	22.9	18.5	27.7



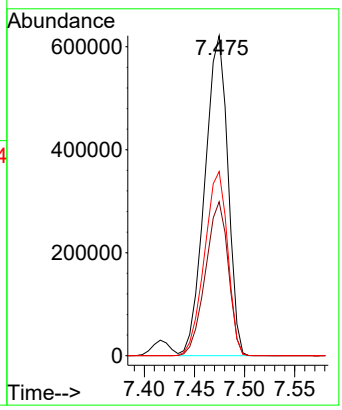


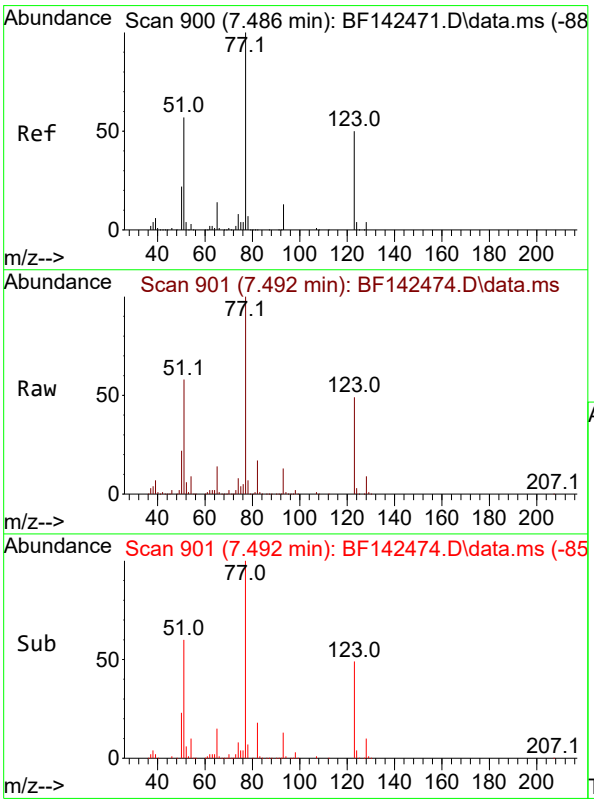
#23
Nitrobenzene-d5
Concen: 151.205 ng
RT: 7.475 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 82 Resp: 993768

Ion	Ratio	Lower	Upper
82	100		
128	48.1	37.4	56.2
54	57.5	46.6	70.0

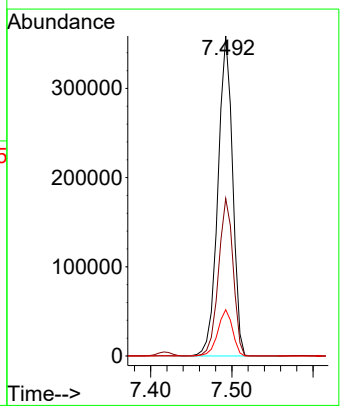


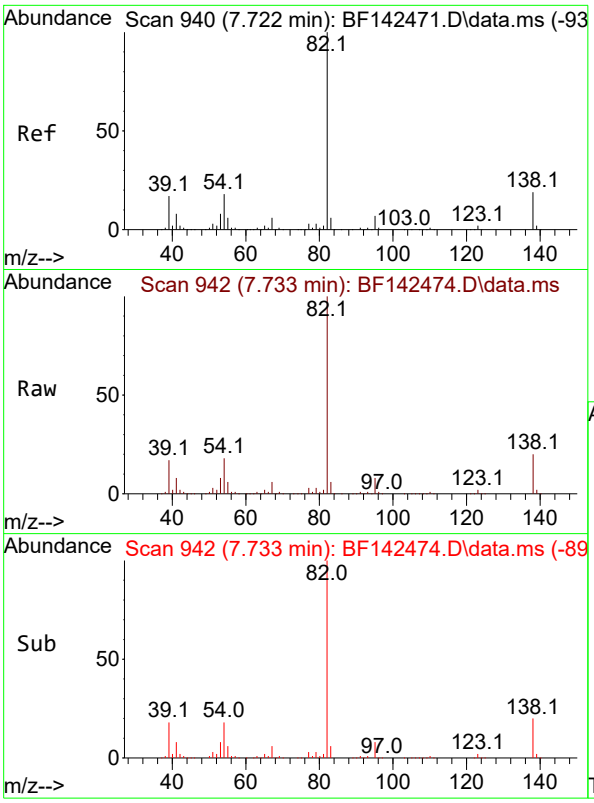


#24
Nitrobenzene
Concen: 76.309 ng
RT: 7.492 min Scan# 901
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion: 77 Resp: 452330

Ion	Ratio	Lower	Upper
77	100		
123	49.2	40.6	61.0
65	14.5	11.4	17.2



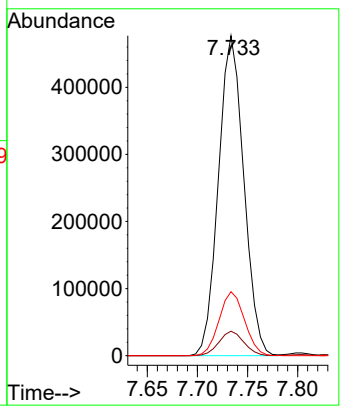


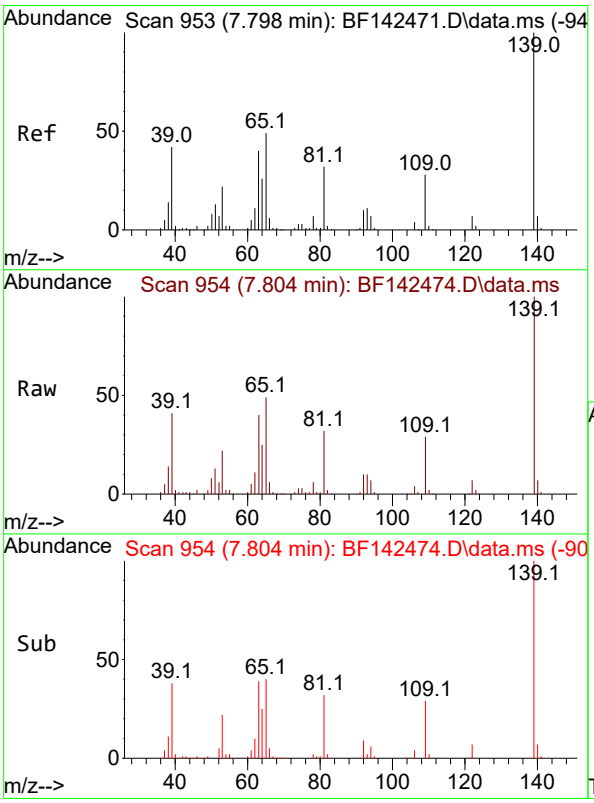
#25
Isophorone
Concen: 76.321 ng
RT: 7.733 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 82 Resp: 838652

Ion	Ratio	Lower	Upper
82	100		
95	7.7	6.0	9.0
138	20.0	15.5	23.3

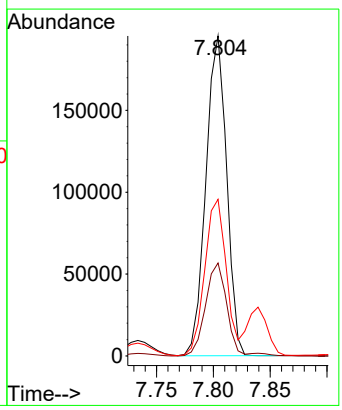


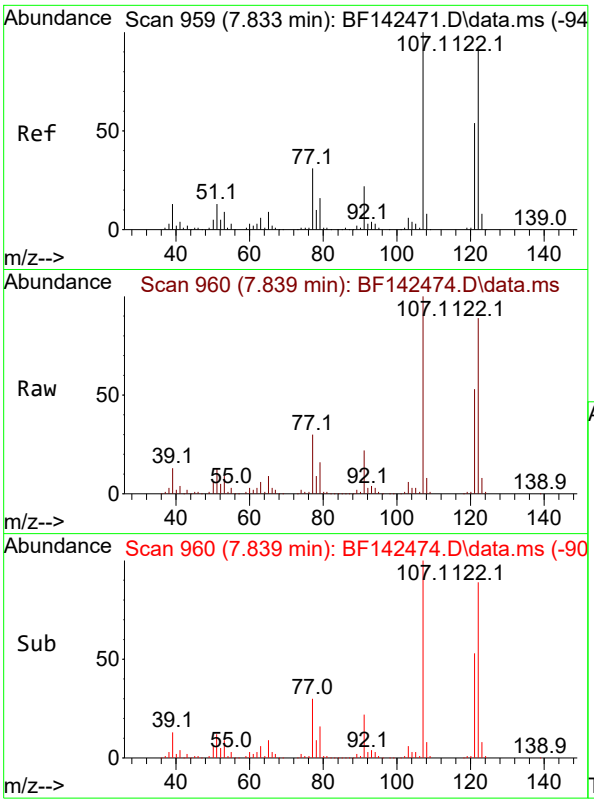


#26
2-Nitrophenol
Concen: 78.434 ng
RT: 7.804 min Scan# 954
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:139 Resp: 248427

Ion	Ratio	Lower	Upper
139	100		
109	29.1	22.6	33.8
65	48.9	39.4	59.0



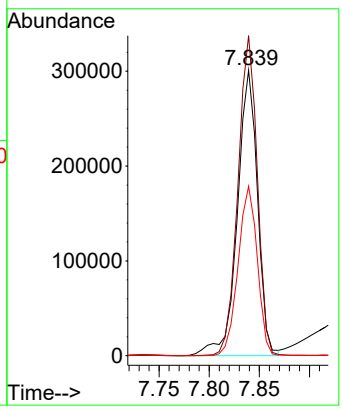


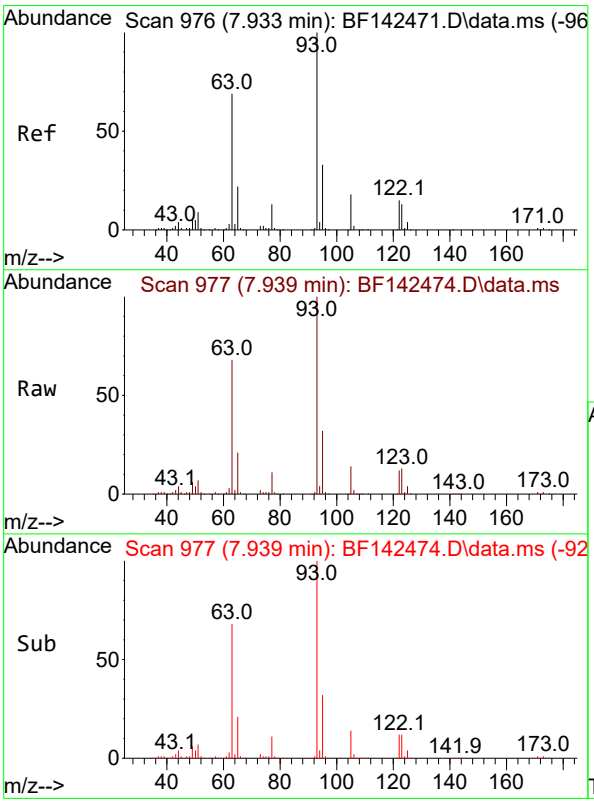
#27
2,4-Dimethylphenol
Concen: 75.623 ng
RT: 7.839 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:122 Resp: 422403

Ion	Ratio	Lower	Upper
122	100		
107	112.1	88.1	132.1
121	59.4	47.3	70.9

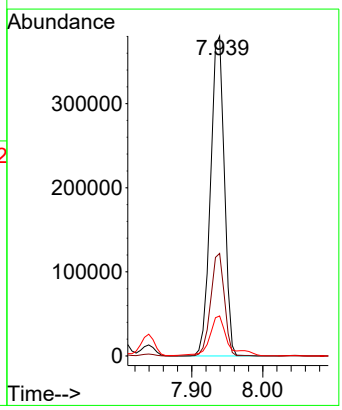


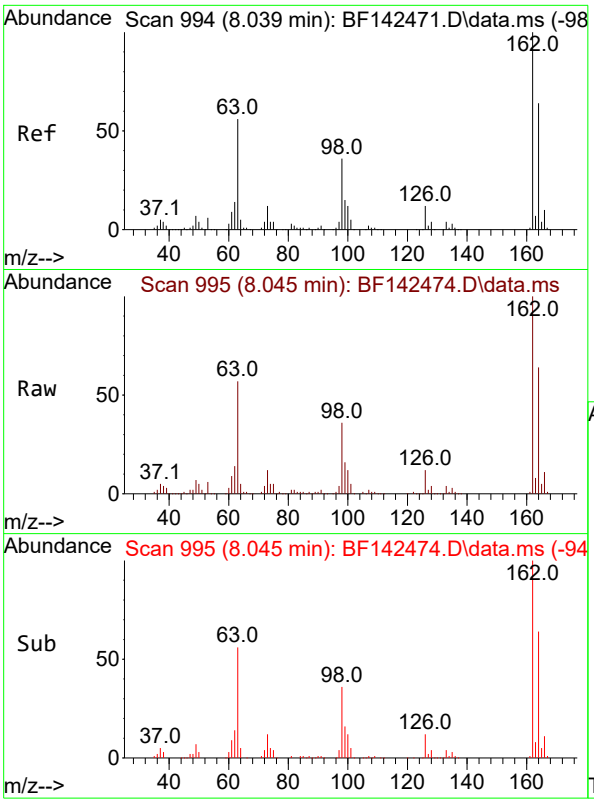


#28
bis(2-Chloroethoxy)methane
Concen: 74.744 ng
RT: 7.939 min Scan# 977
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion: 93 Resp: 513063

Ion	Ratio	Lower	Upper
93	100		
95	32.1	26.4	39.6
123	12.5	10.6	15.8



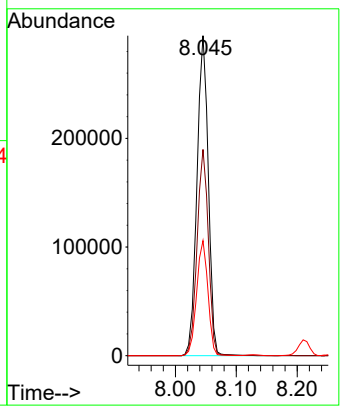


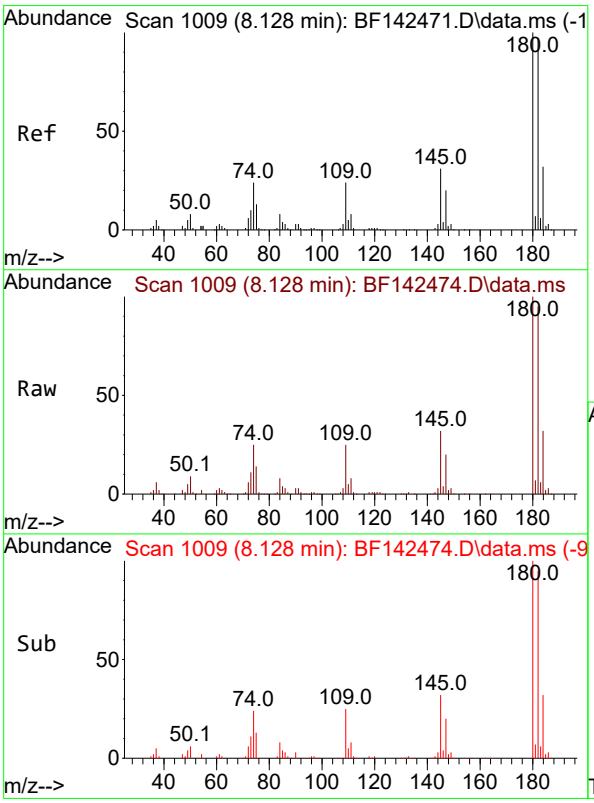
#29
2,4-Dichlorophenol
Concen: 75.121 ng
RT: 8.045 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:162 Resp: 381590

Ion	Ratio	Lower	Upper
162	100		
164	64.4	43.7	83.7
98	36.0	15.5	55.5

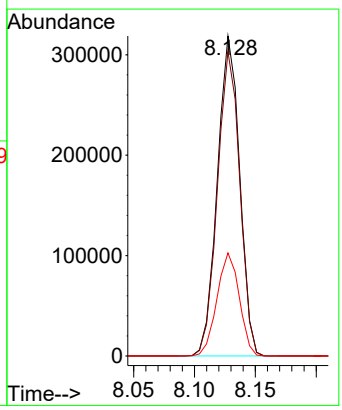


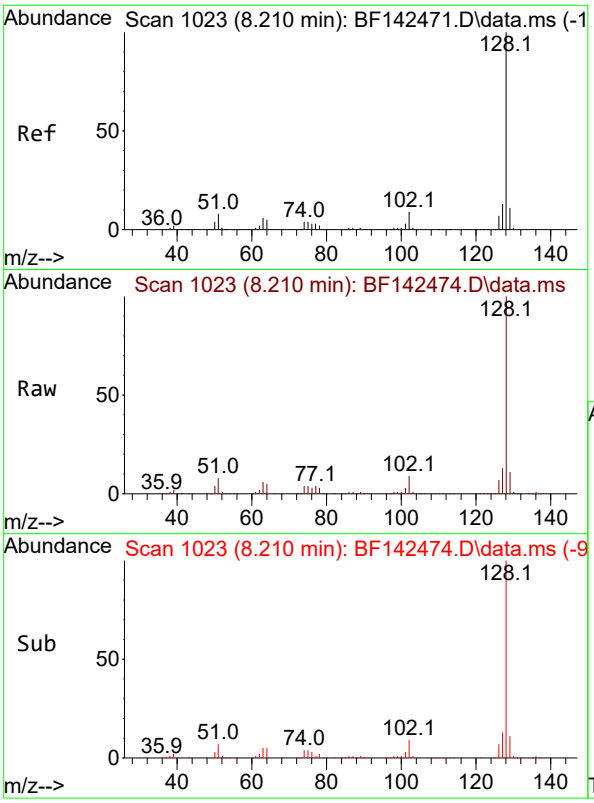


#30
1,2,4-Trichlorobenzene
Concen: 73.801 ng
RT: 8.128 min Scan# 1009
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:180 Resp: 406857

Ion	Ratio	Lower	Upper
180	100		
182	95.1	78.0	117.0
145	32.2	25.0	37.6



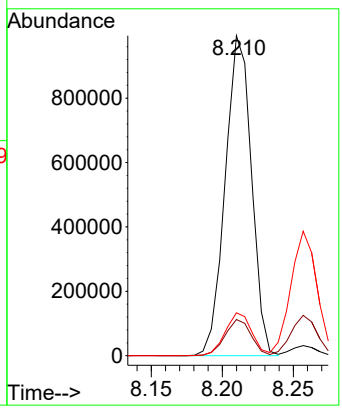


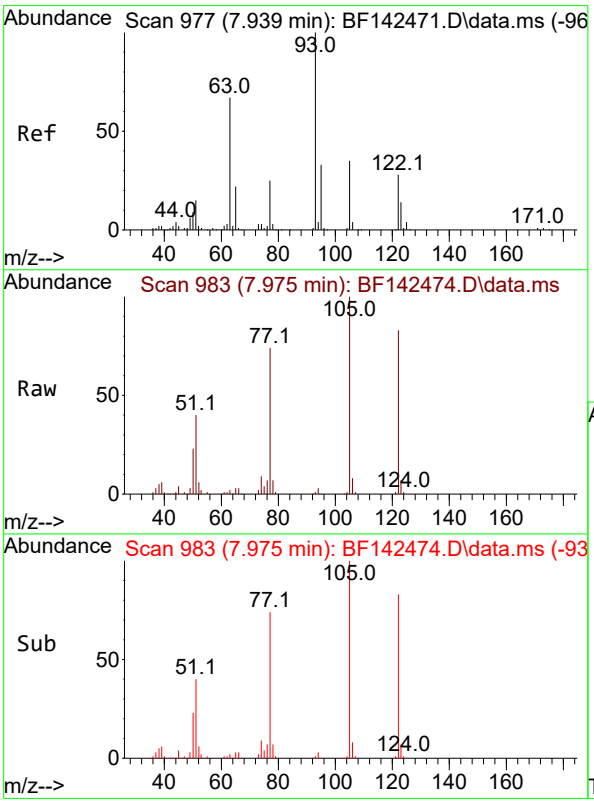
#31
Naphthalene
Concen: 72.369 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:128 Resp: 1277048

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.9	13.3
127	13.4	10.5	15.7

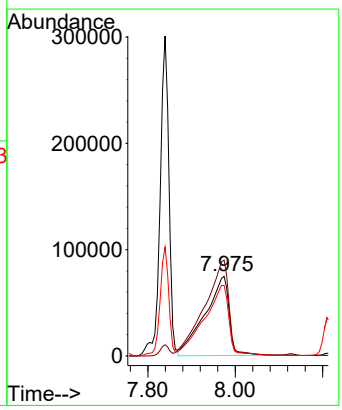


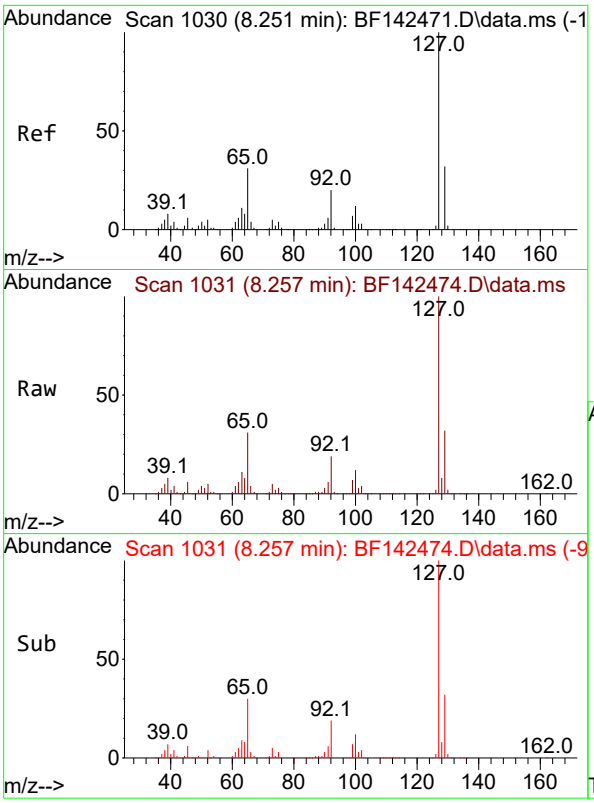


#32
Benzoic acid
Concen: 84.918 ng
RT: 7.975 min Scan# 983
Delta R.T. -0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:122 Resp: 288731

Ion	Ratio	Lower	Upper
122	100		
105	120.5	101.7	141.7
77	88.6	69.5	109.5



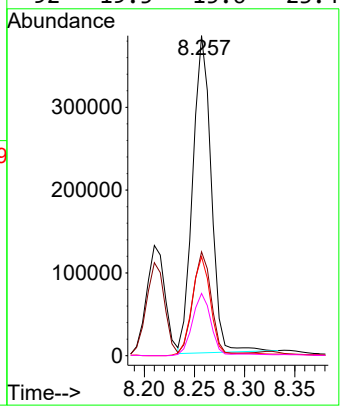


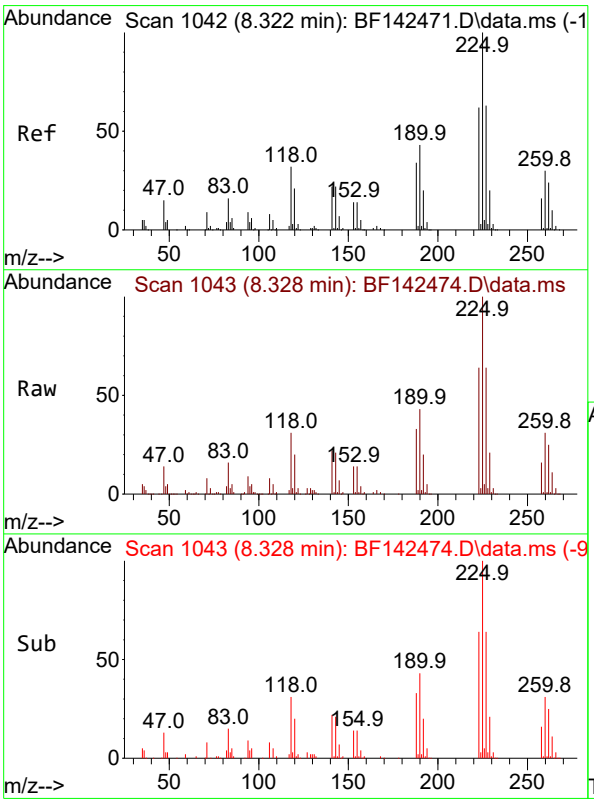
#33
4-Chloroaniline
Concen: 68.830 ng
RT: 8.257 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:127 Resp: 492168

Ion	Ratio	Lower	Upper
127	100		
129	32.5	26.1	39.1
65	30.9	24.9	37.3
92	19.5	15.6	23.4

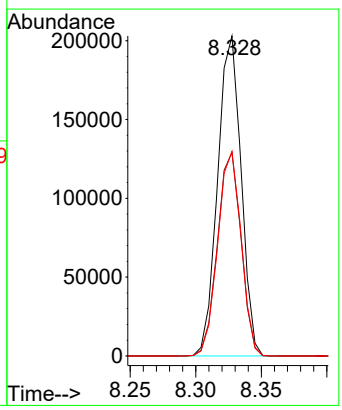


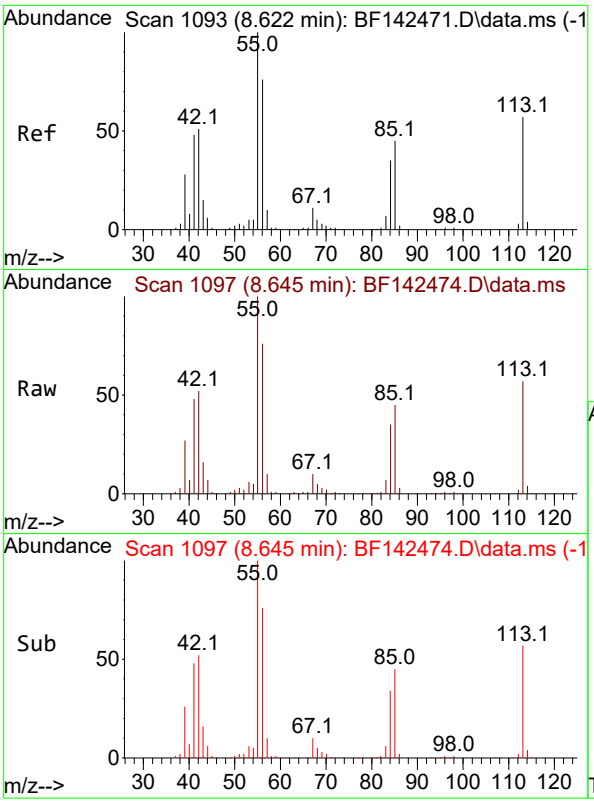


#34
Hexachlorobutadiene
Concen: 73.338 ng
RT: 8.328 min Scan# 1043
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:225 Resp: 252445

Ion	Ratio	Lower	Upper
225	100		
223	63.6	49.7	74.5
227	63.9	50.3	75.5



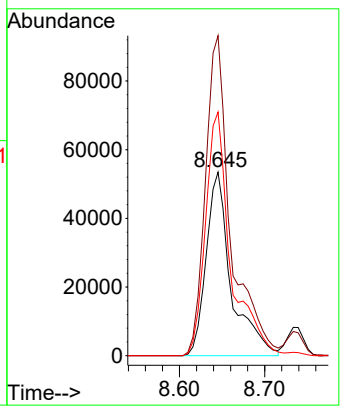


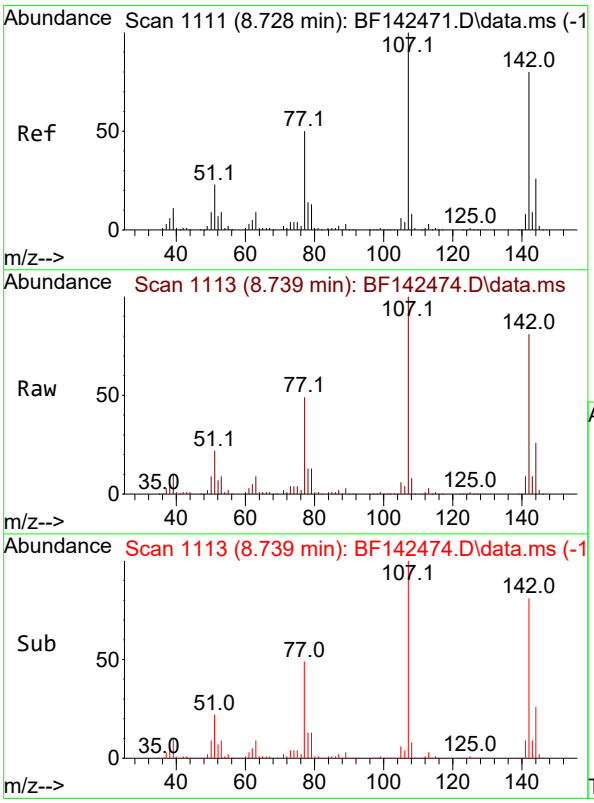
#35
Caprolactam
Concen: 76.565 ng
RT: 8.645 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:113 Resp: 109232

Ion	Ratio	Lower	Upper
113	100		
55	174.4	154.7	194.7
56	132.8	113.2	153.2

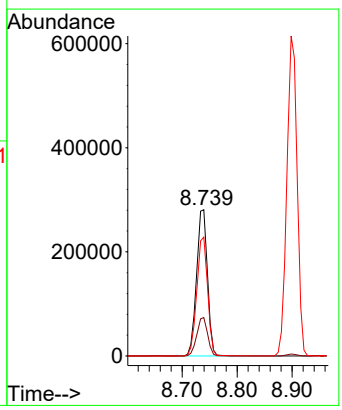


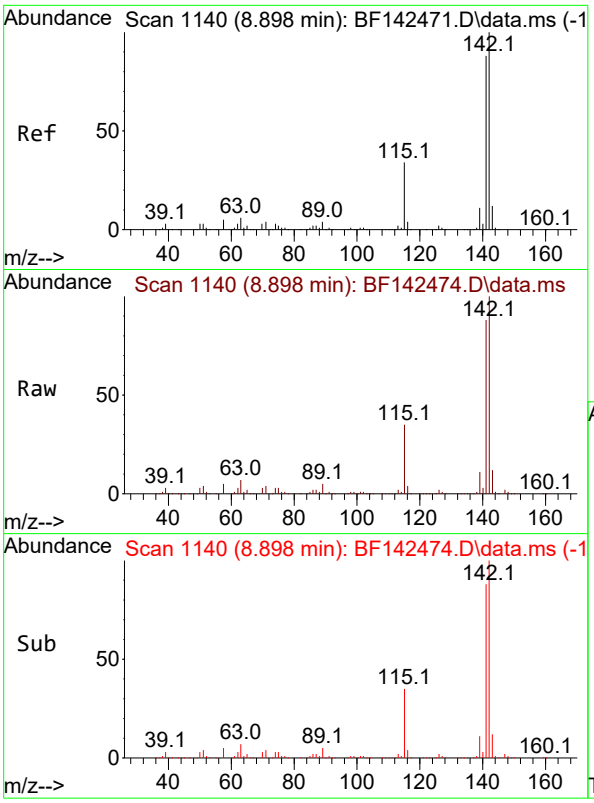


#36
4-Chloro-3-methylphenol
Concen: 74.674 ng
RT: 8.739 min Scan# 1113
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:107 Resp: 388740

Ion	Ratio	Lower	Upper
107	100		
144	26.3	20.9	31.3
142	81.3	64.2	96.2



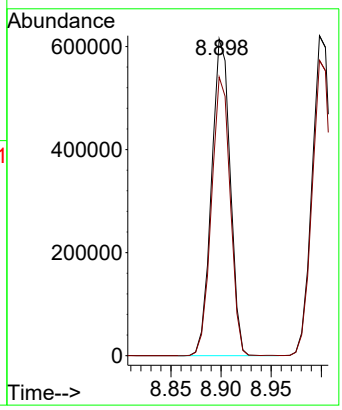


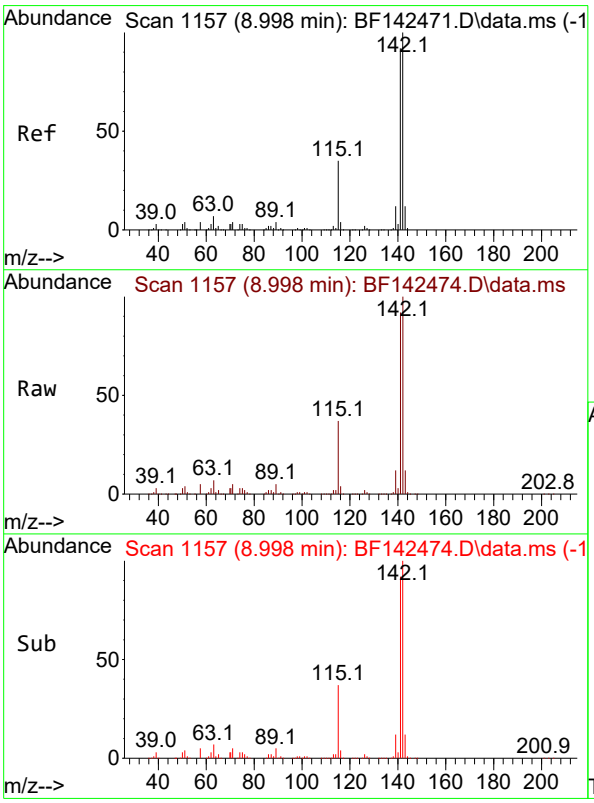
#37
2-Methylnaphthalene
Concen: 71.742 ng
RT: 8.898 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:142 Resp: 796463

Ion	Ratio	Lower	Upper
142	100		
141	88.0	70.7	106.1

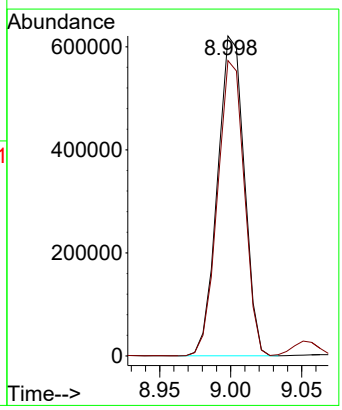


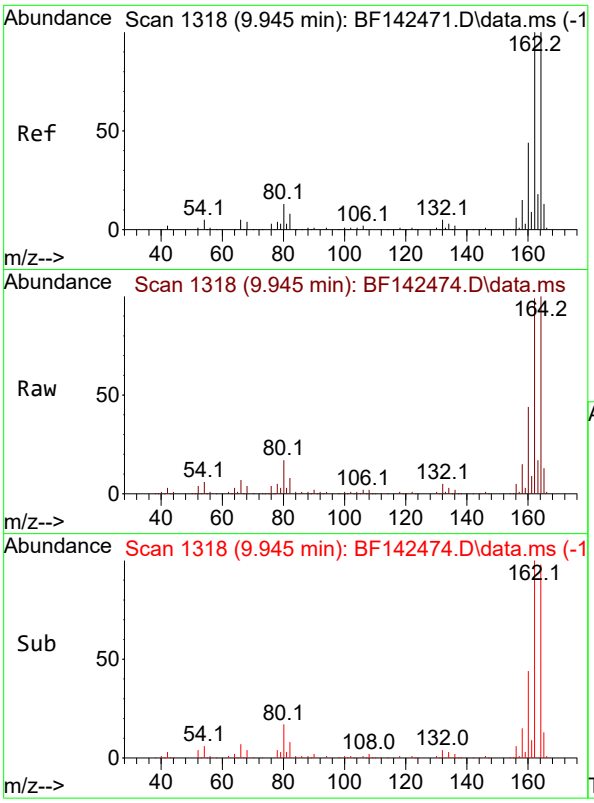


#38
1-Methylnaphthalene
Concen: 70.689 ng
RT: 8.998 min Scan# 1157
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:142 Resp: 811747

Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.4	110.2



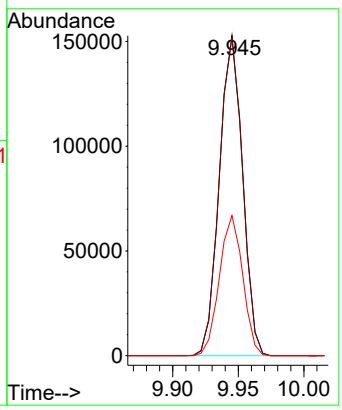


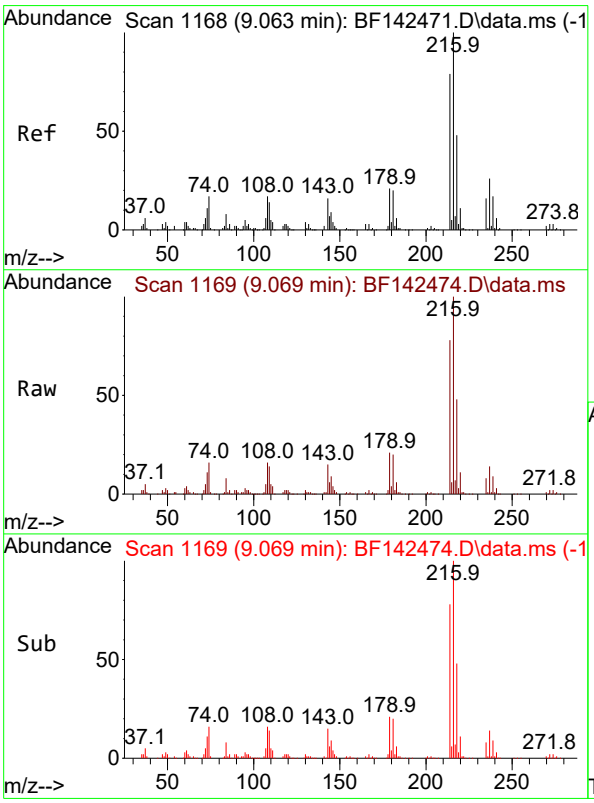
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:164 Resp: 188198

Ion	Ratio	Lower	Upper
164	100		
162	99.4	80.2	120.4
160	43.8	35.6	53.4

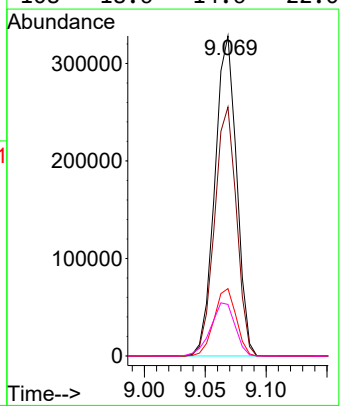


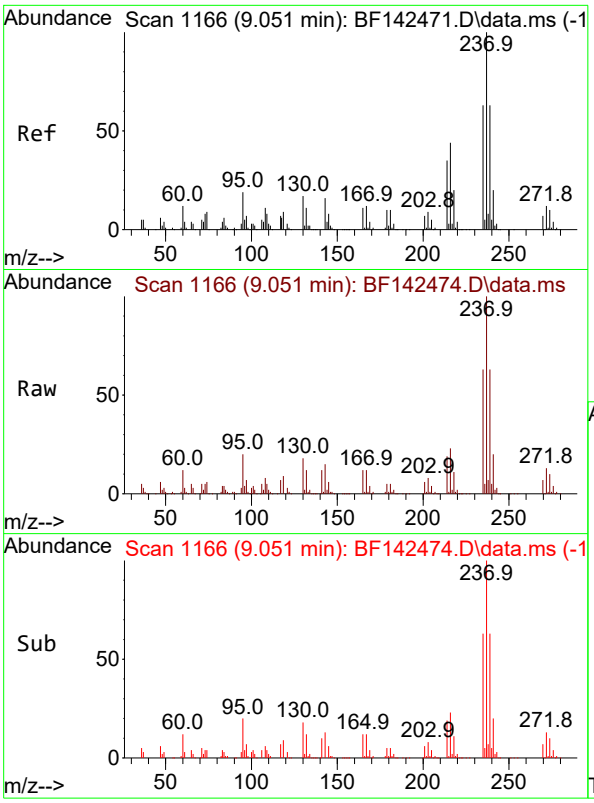


#40
1,2,4,5-Tetrachlorobenzene
Concen: 75.740 ng
RT: 9.069 min Scan# 1169
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:216 Resp: 409177

Ion	Ratio	Lower	Upper
216	100		
214	78.2	62.9	94.3
179	21.3	16.9	25.3
108	18.6	14.6	22.0



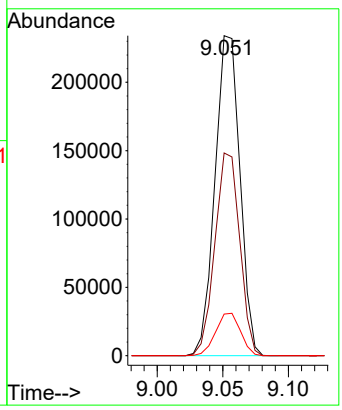


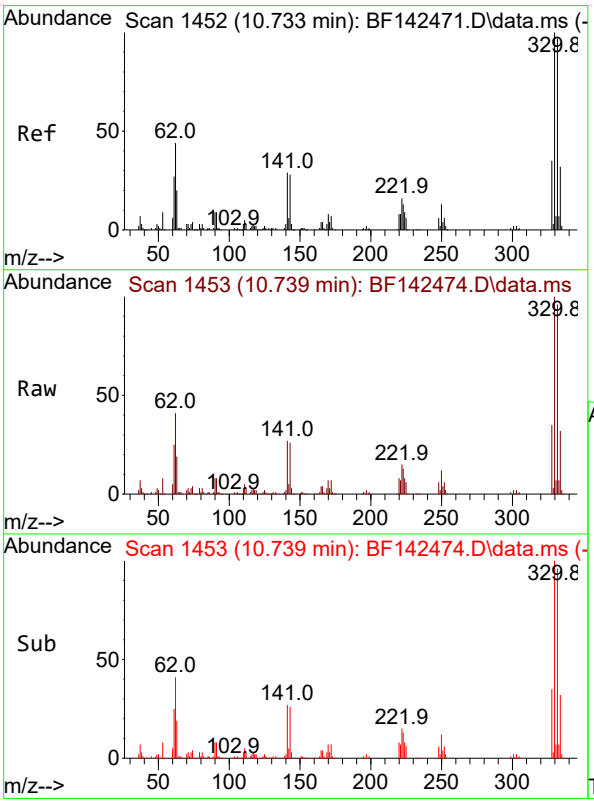
#41
Hexachlorocyclopentadiene
Concen: 84.936 ng
RT: 9.051 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:237 Resp: 309537

Ion	Ratio	Lower	Upper
237	100		
235	63.4	43.3	83.3
272	13.0	0.0	32.4

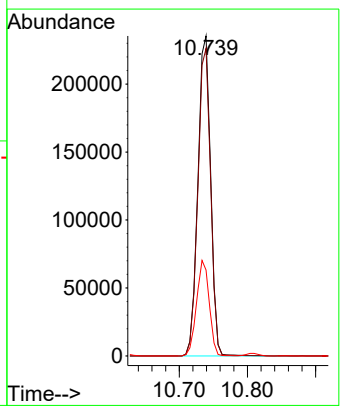


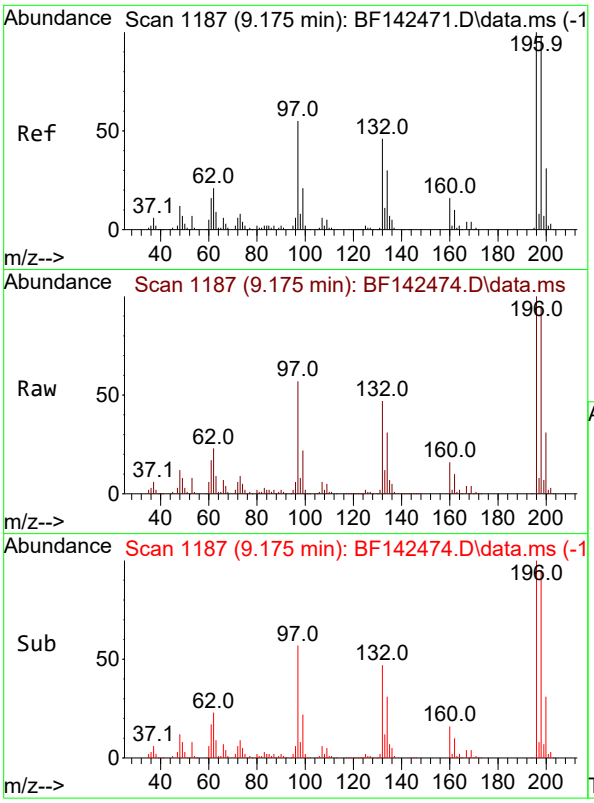


#42
2,4,6-Tribromophenol
Concen: 145.927 ng
RT: 10.739 min Scan# 1453
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:330 Resp: 304807

Ion	Ratio	Lower	Upper
330	100		
332	96.0	77.6	116.4
141	29.7	24.6	36.8



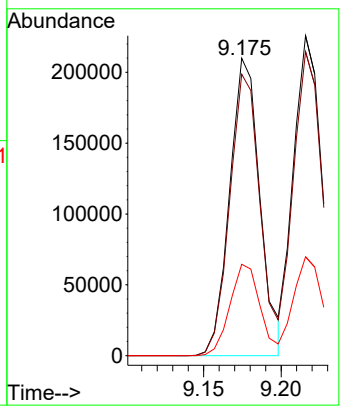


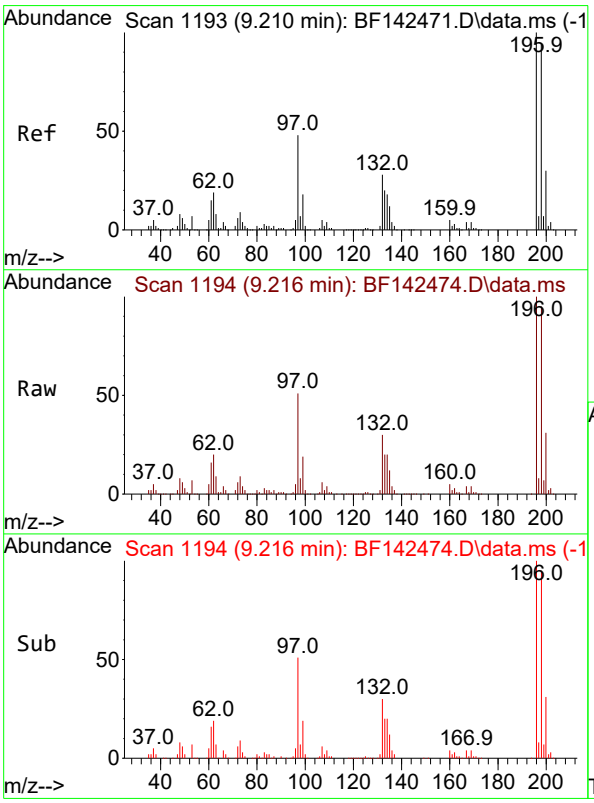
#43
2,4,6-Trichlorophenol
Concen: 78.254 ng
RT: 9.175 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:196 Resp: 285072

Ion	Ratio	Lower	Upper
196	100		
198	94.6	78.8	118.2
200	30.7	24.9	37.3

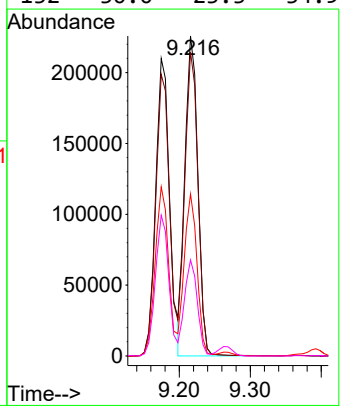


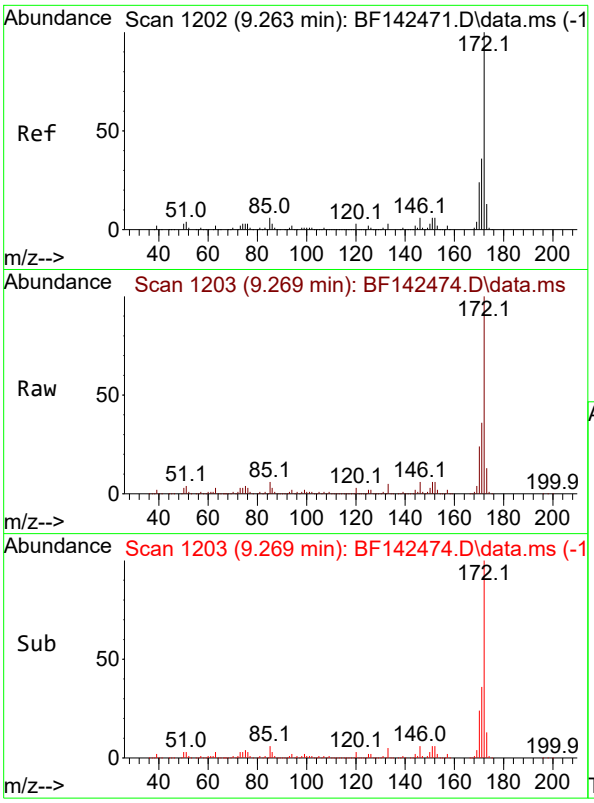


#44
2,4,5-Trichlorophenol
Concen: 74.712 ng
RT: 9.216 min Scan# 1194
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:196 Resp: 287041

Ion	Ratio	Lower	Upper
196	100		
198	95.0	75.5	113.3
97	50.6	39.3	58.9
132	30.0	23.3	34.9



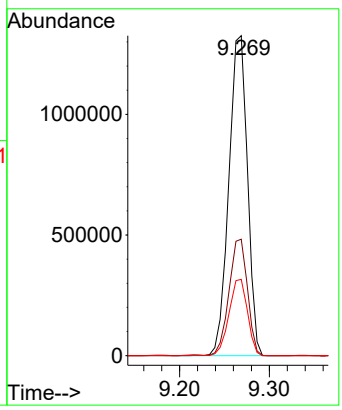


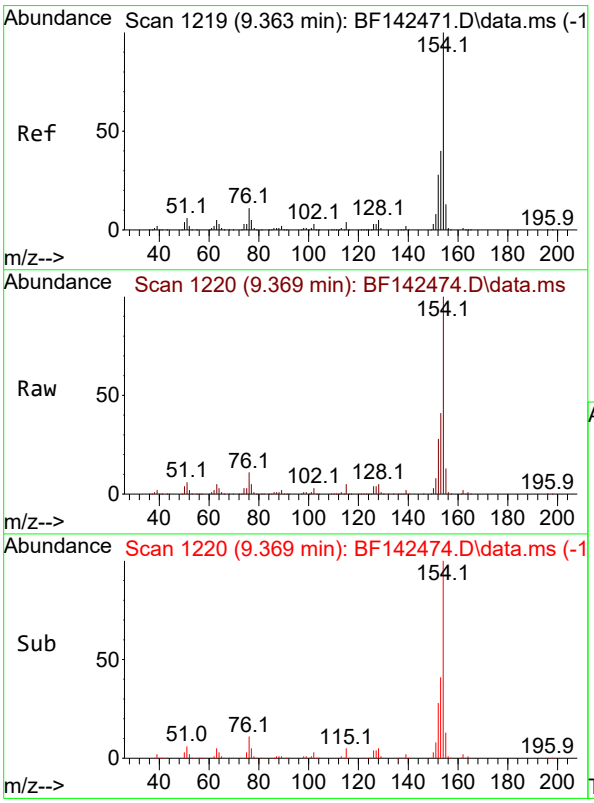
#45
2-Fluorobiphenyl
Concen: 136.080 ng
RT: 9.269 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:172 Resp: 1908541

Ion	Ratio	Lower	Upper
172	100		
171	36.4	28.6	42.8
170	23.9	18.9	28.3

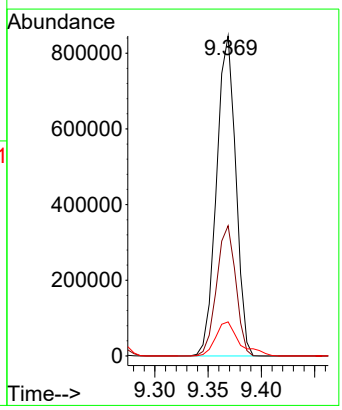


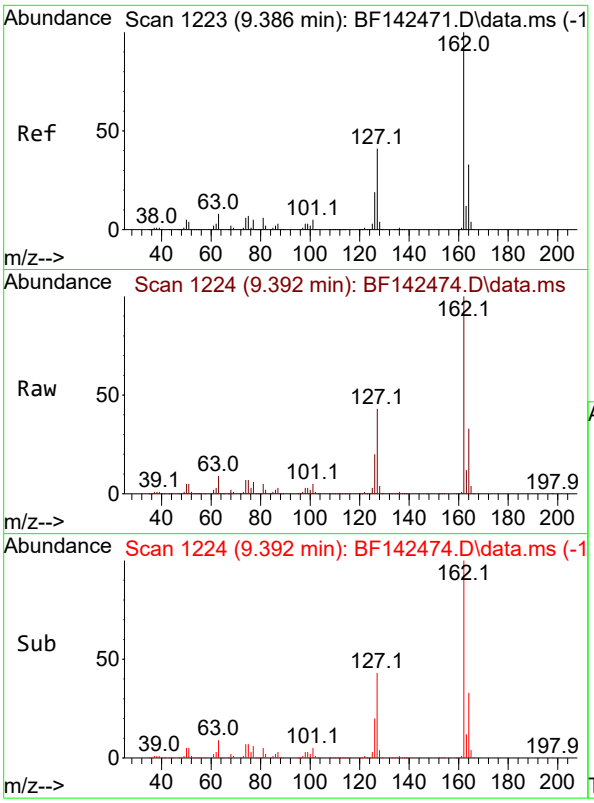


#46
1,1'-Biphenyl
Concen: 72.584 ng
RT: 9.369 min Scan# 1220
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:154 Resp: 1059787

Ion	Ratio	Lower	Upper
154	100		
153	40.7	20.4	60.4
76	10.7	0.0	30.8



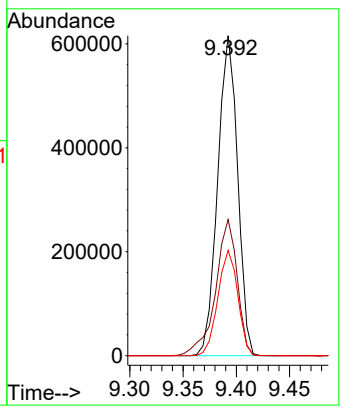


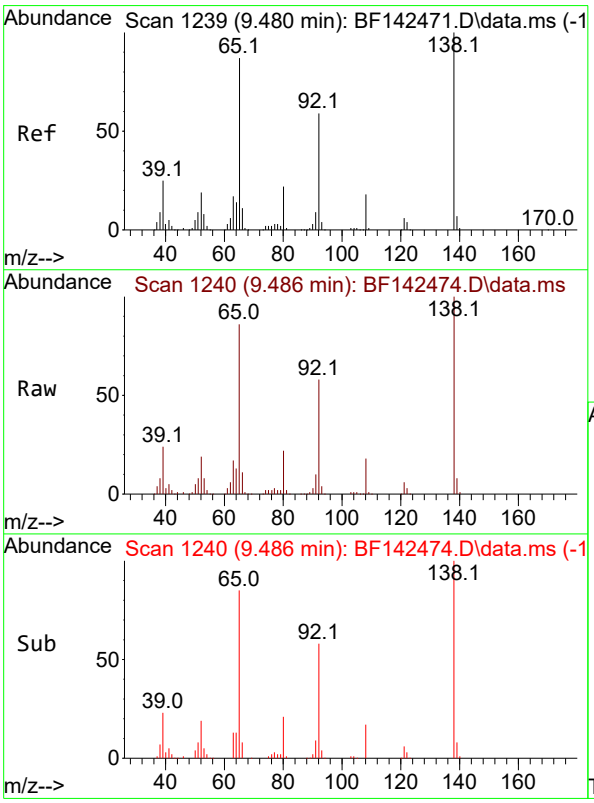
#47
2-Chloronaphthalene
Concen: 74.024 ng
RT: 9.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:162 Resp: 798539

Ion	Ratio	Lower	Upper
162	100		
127	42.6	33.5	50.3
164	32.9	26.1	39.1

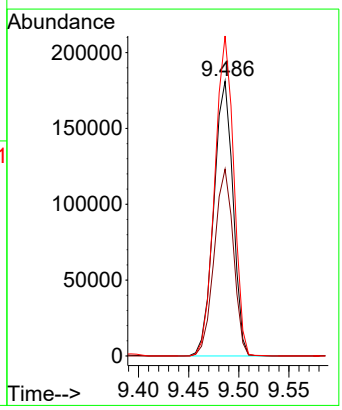


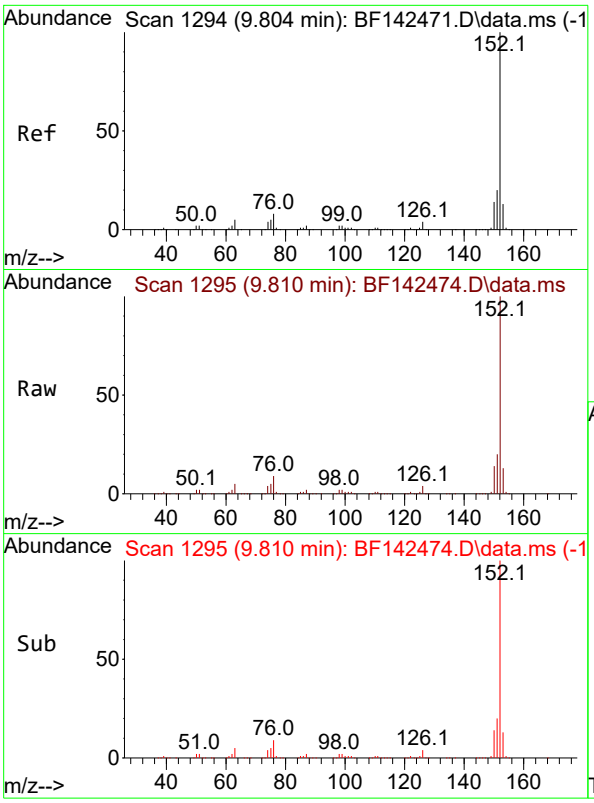


#48
2-Nitroaniline
Concen: 77.343 ng
RT: 9.486 min Scan# 1240
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion: 65 Resp: 241162

Ion	Ratio	Lower	Upper
65	100		
92	68.1	54.4	81.6
138	116.5	91.4	137.2



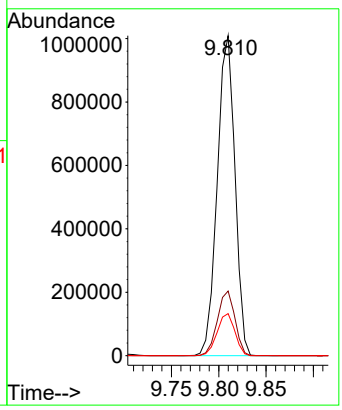


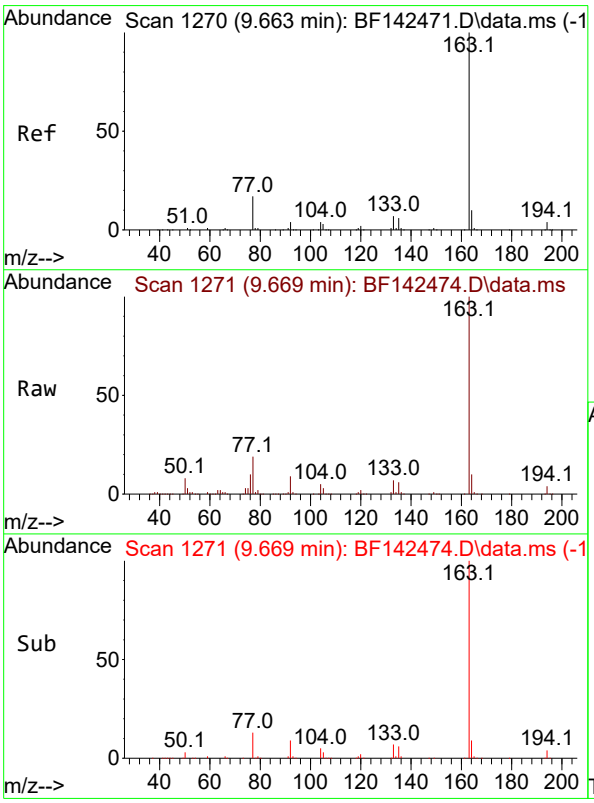
#49
Acenaphthylene
Concen: 72.118 ng
RT: 9.810 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:152 Resp: 1313668

Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.8	23.8
153	13.1	10.6	15.8

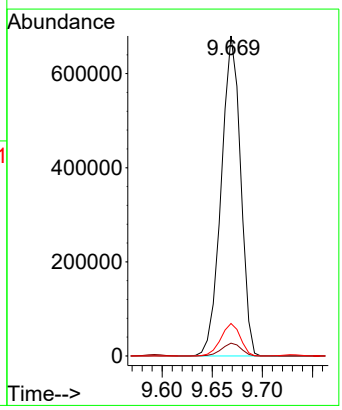


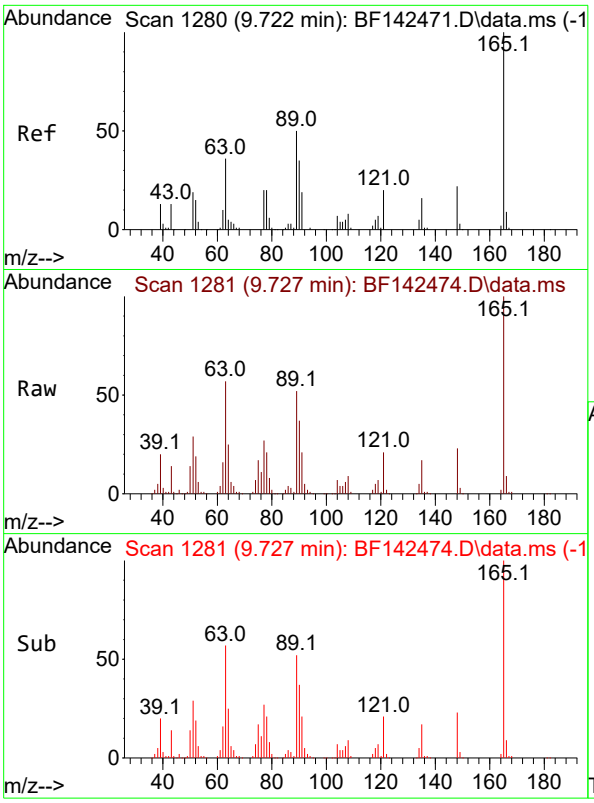


#50
Dimethylphthalate
Concen: 73.405 ng
RT: 9.669 min Scan# 1271
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:163 Resp: 911534

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.3	4.9
164	10.1	8.2	12.4



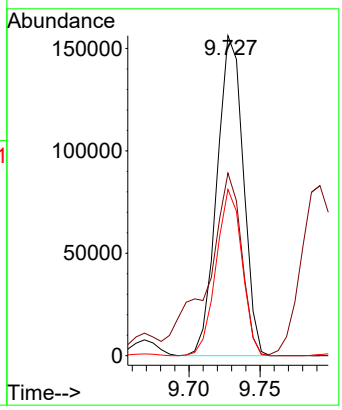


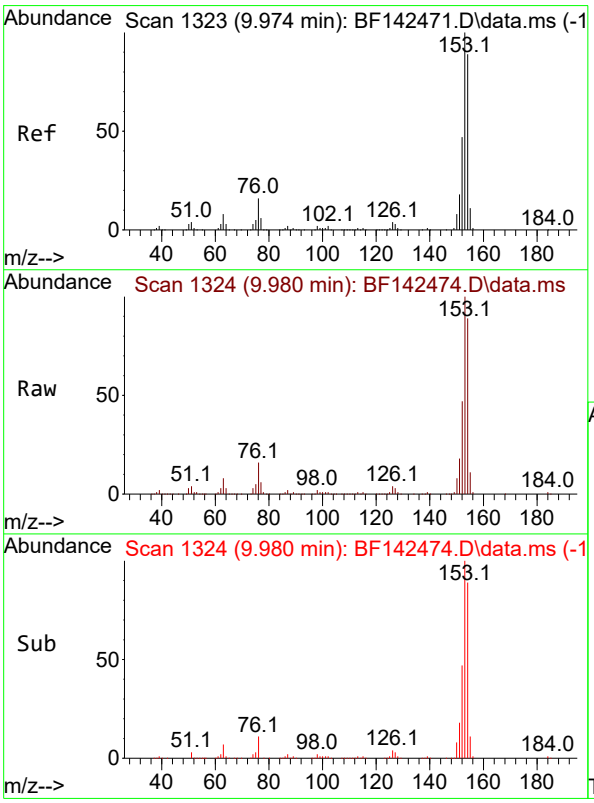
#51
2,6-Dinitrotoluene
Concen: 75.198 ng
RT: 9.727 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:165 Resp: 201545

Ion	Ratio	Lower	Upper
165	100		
63	57.0	42.9	64.3
89	51.9	40.2	60.4

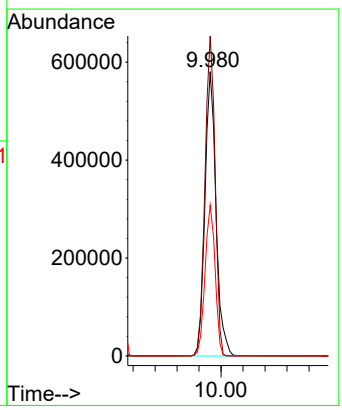


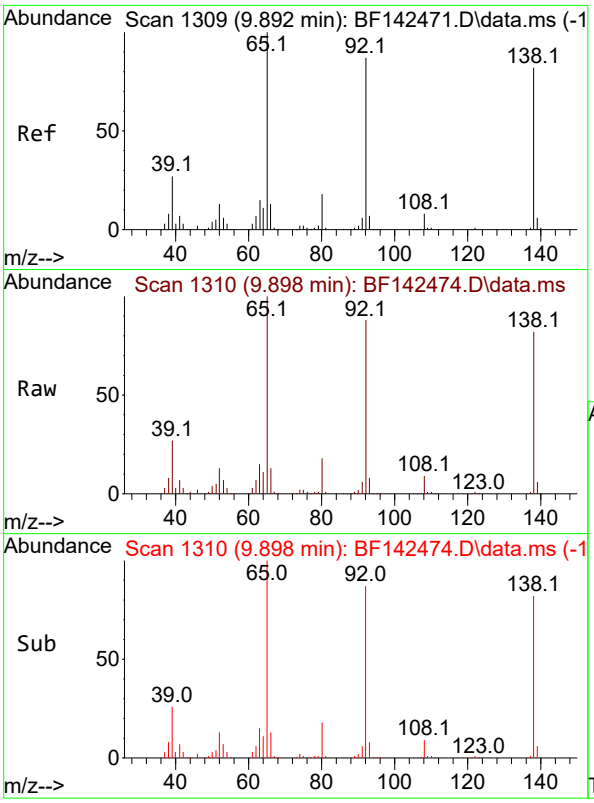


#52
Acenaphthene
Concen: 72.896 ng
RT: 9.980 min Scan# 1324
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:154 Resp: 810811

Ion	Ratio	Lower	Upper
154	100		
153	112.5	90.0	135.0
152	53.0	42.6	64.0



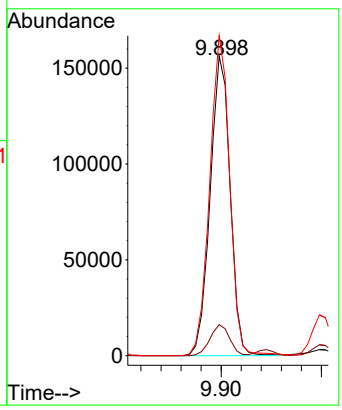


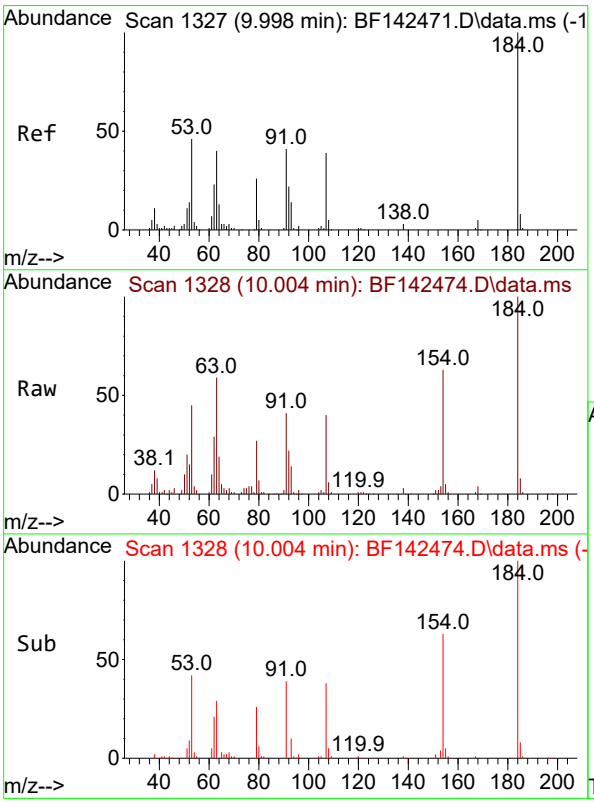
#53
3-Nitroaniline
Concen: 73.930 ng
RT: 9.898 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:138 Resp: 216422

Ion	Ratio	Lower	Upper
138	100		
108	10.4	8.1	12.1
92	106.8	85.2	127.8

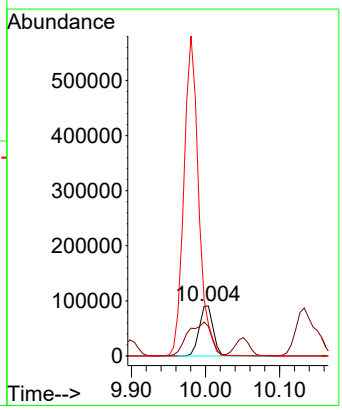


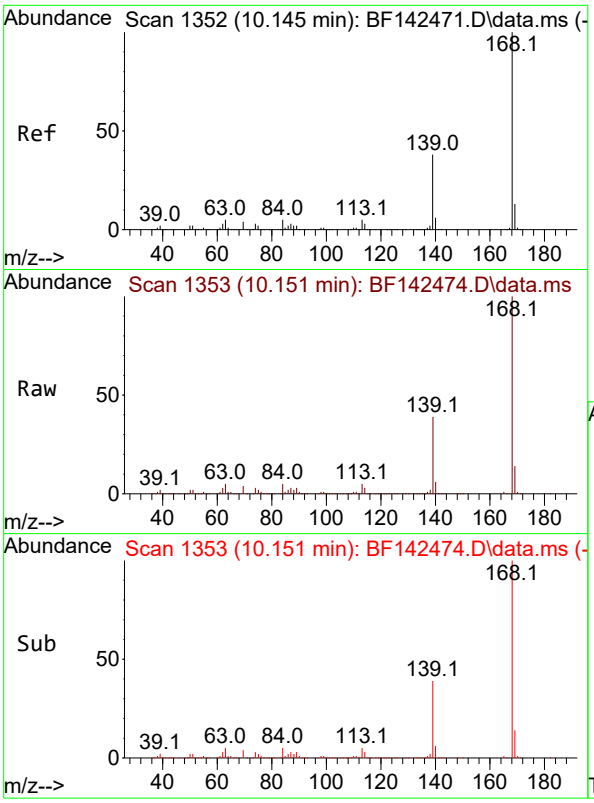


#54
2,4-Dinitrophenol
Concen: 85.999 ng
RT: 10.004 min Scan# 1328
Delta R.T. -0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:184 Resp: 119082

Ion	Ratio	Lower	Upper
184	100		
63	59.2	46.3	69.5
154	63.4	56.8	85.2



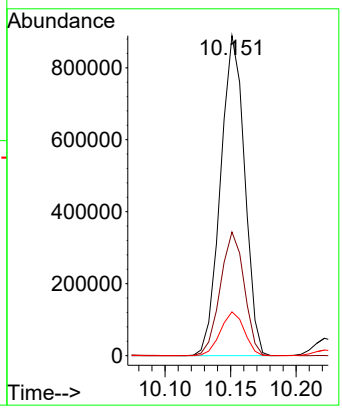


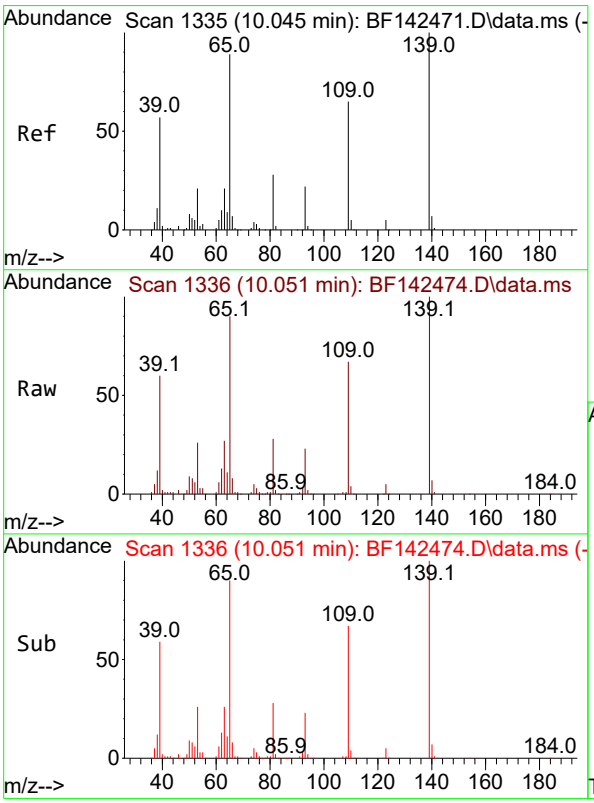
#55
Dibenzofuran
Concen: 70.990 ng
RT: 10.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:168 Resp: 1136276

Ion	Ratio	Lower	Upper
168	100		
139	38.6	30.2	45.2
169	13.7	10.7	16.1

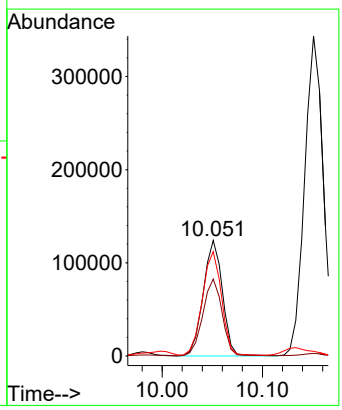


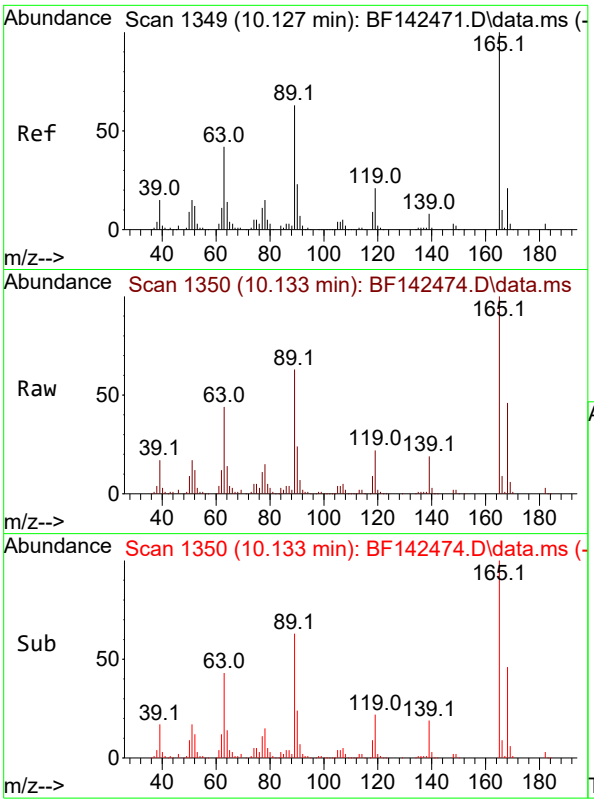


#56
4-Nitrophenol
Concen: 76.638 ng
RT: 10.051 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:139 Resp: 165537

Ion	Ratio	Lower	Upper
139	100		
109	66.7	45.1	85.1
65	90.4	69.7	109.7



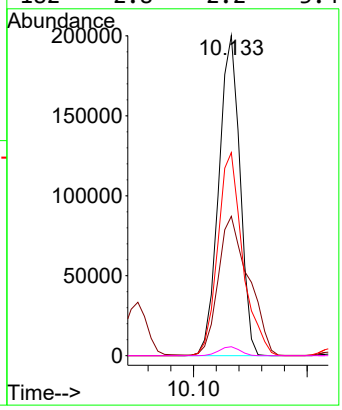


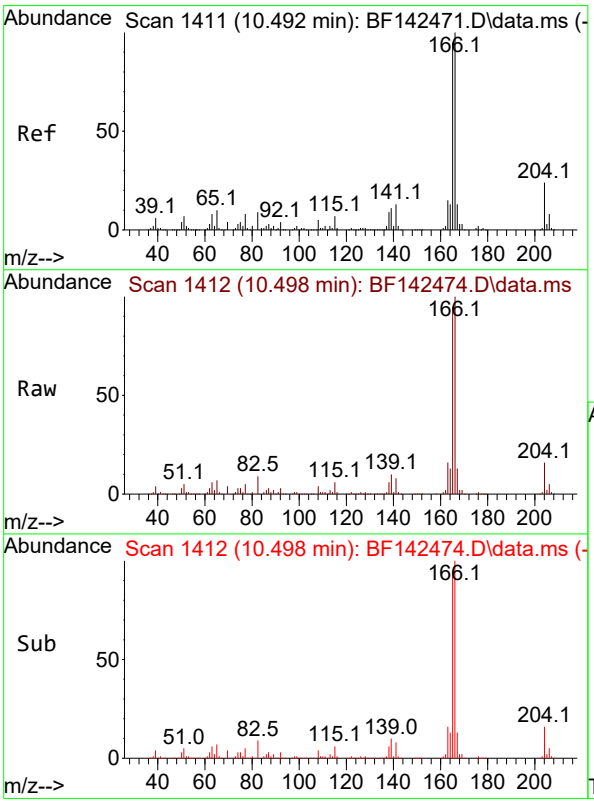
#57
2,4-Dinitrotoluene
Concen: 74.005 ng
RT: 10.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:165 Resp: 259035

Ion	Ratio	Lower	Upper
165	100		
63	43.5	33.6	50.4
89	63.5	50.2	75.4
182	2.8	2.2	3.4

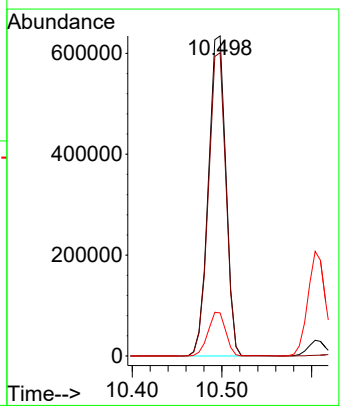


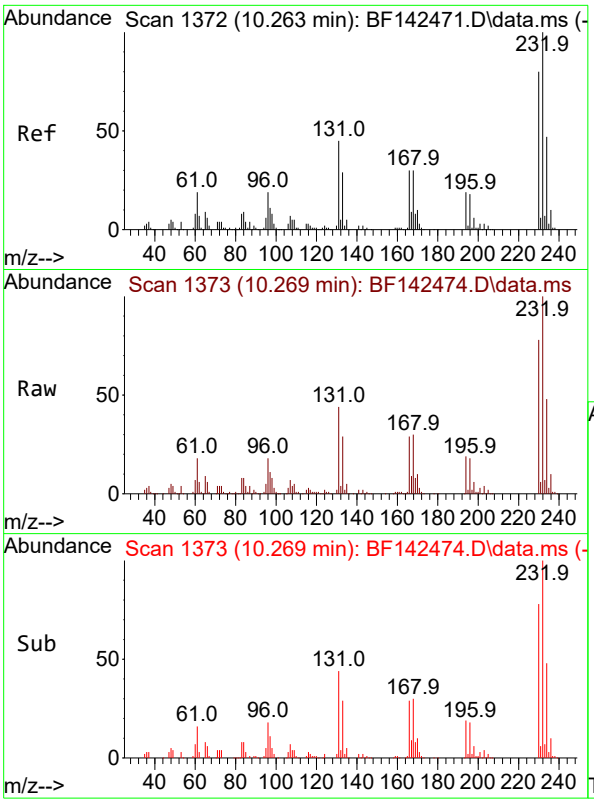


#58
Fluorene
Concen: 69.377 ng
RT: 10.498 min Scan# 1412
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:166 Resp: 857882

Ion	Ratio	Lower	Upper
166	100		
165	94.7	75.8	113.8
167	13.5	10.6	16.0



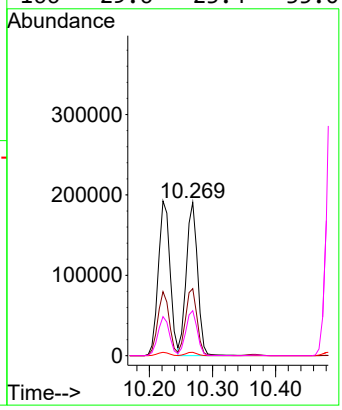


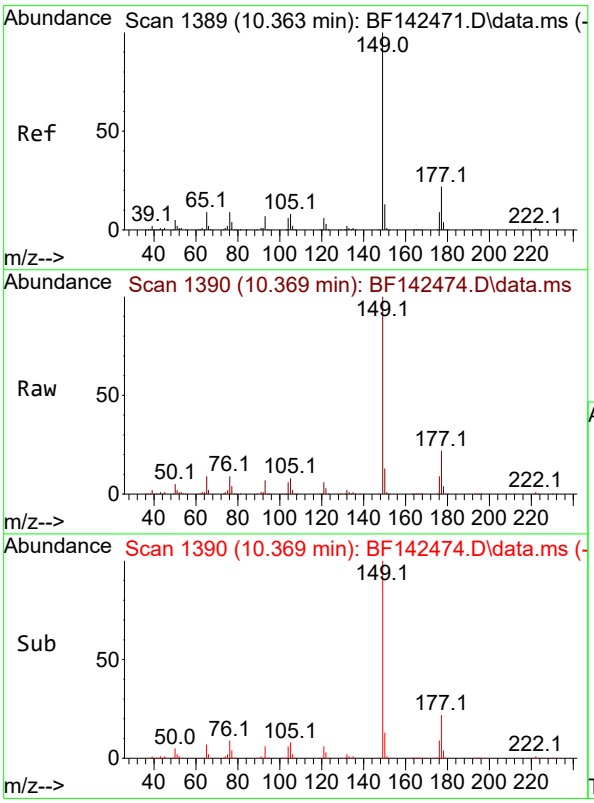
#59
2,3,4,6-Tetrachlorophenol
Concen: 74.324 ng
RT: 10.269 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:232 Resp: 238382

Ion	Ratio	Lower	Upper
232	100		
131	44.6	35.2	52.8
130	2.2	1.7	2.5
166	29.6	23.4	35.0

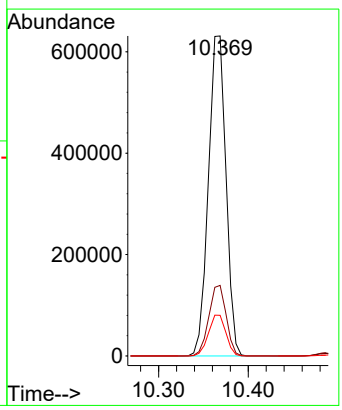


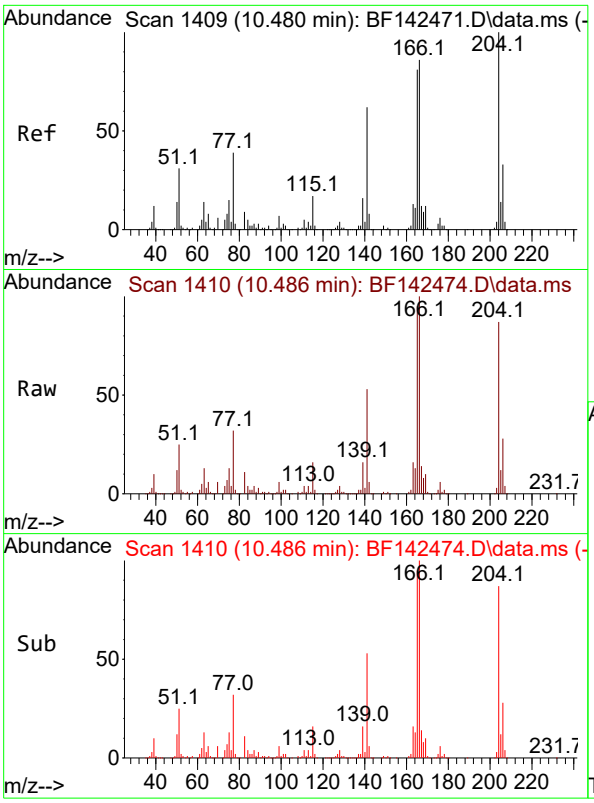


#60
Diethylphthalate
Concen: 70.773 ng
RT: 10.369 min Scan# 1390
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:149 Resp: 858326

Ion	Ratio	Lower	Upper
149	100		
177	22.1	17.6	26.4
150	12.7	10.1	15.1



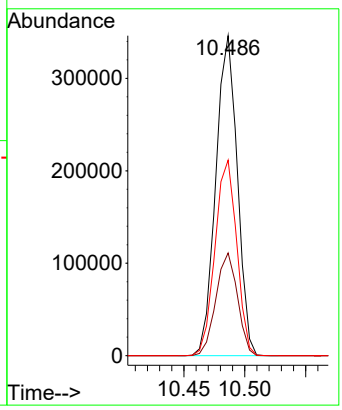


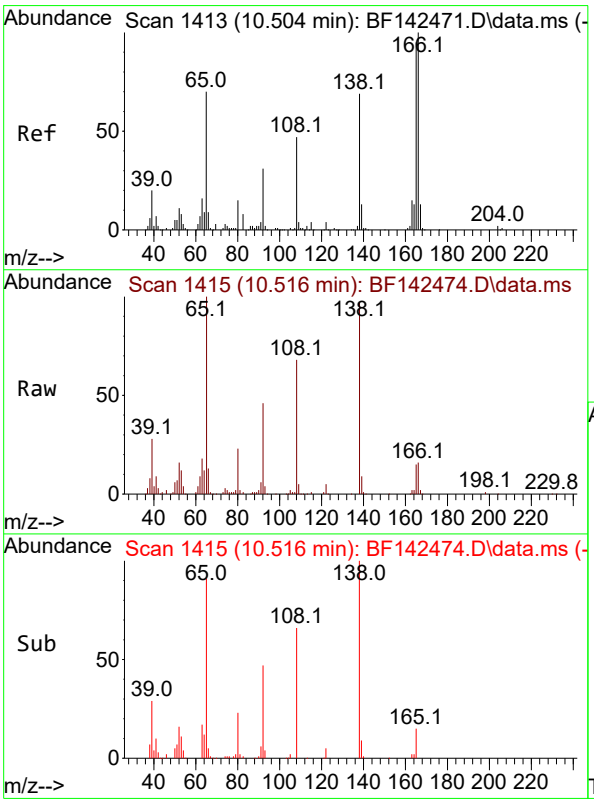
#61
4-Chlorophenyl-phenylether
Concen: 70.193 ng
RT: 10.486 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:204 Resp: 426386

Ion	Ratio	Lower	Upper
204	100		
206	32.1	26.3	39.5
141	61.1	49.5	74.3

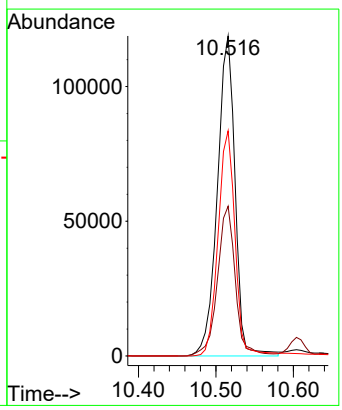


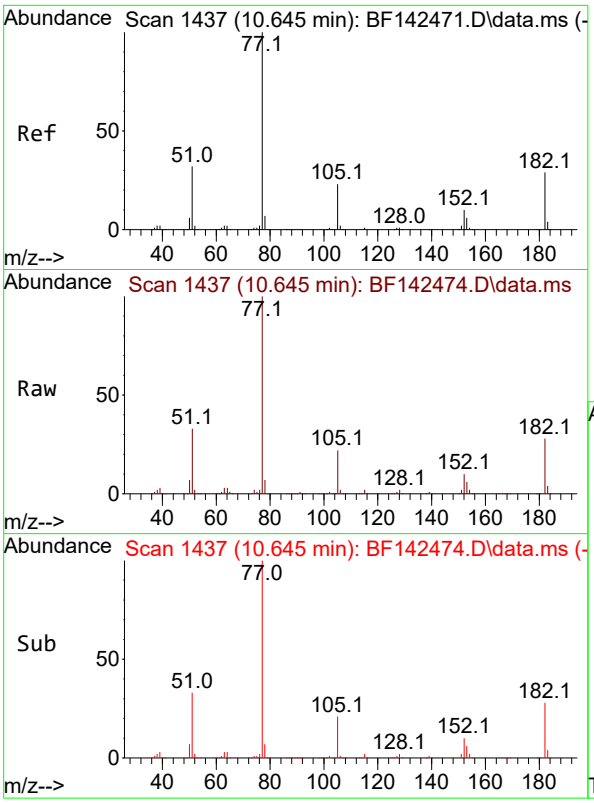


#62
4-Nitroaniline
Concen: 71.105 ng
RT: 10.516 min Scan# 1415
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:138 Resp: 188782

Ion	Ratio	Lower	Upper
138	100		
92	46.8	26.0	66.0
108	70.3	48.4	88.4



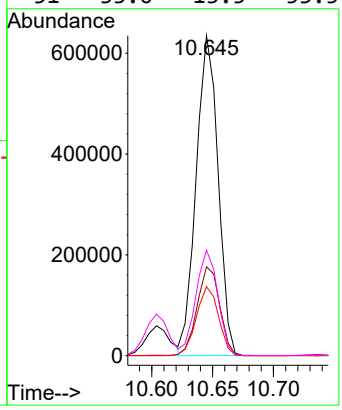


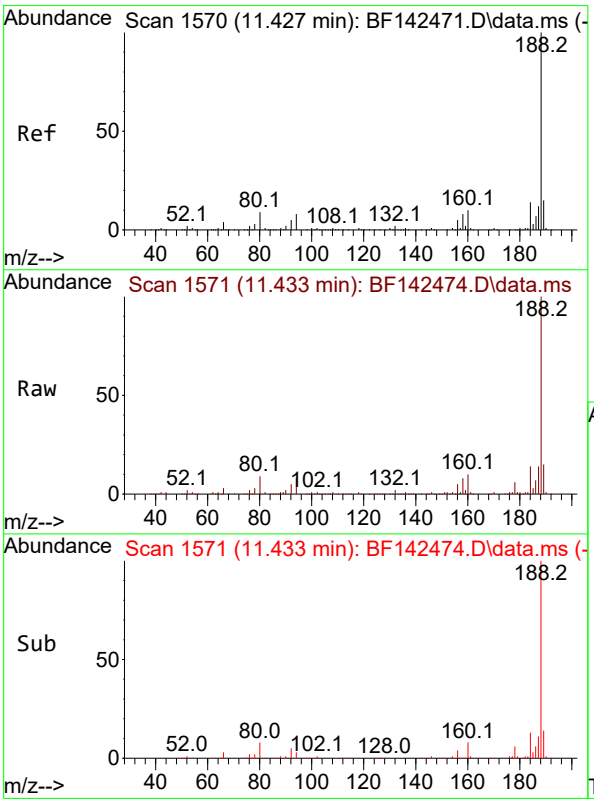
#63
Azobenzene
Concen: 72.893 ng
RT: 10.645 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 77 Resp: 794029

Ion	Ratio	Lower	Upper
77	100		
182	27.8	9.0	49.0
105	21.5	2.4	42.4
51	33.0	13.5	53.5

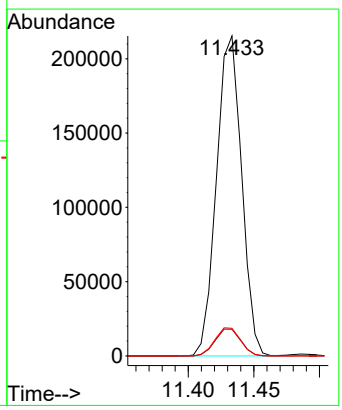


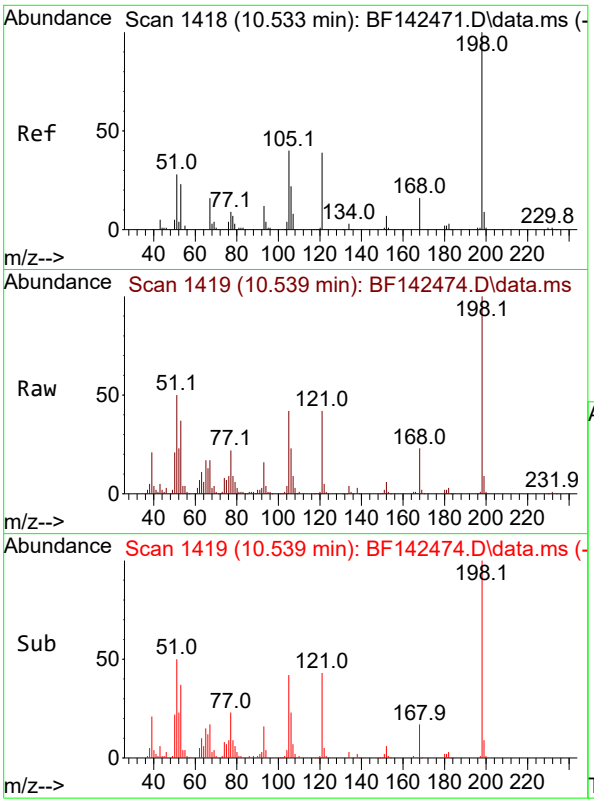


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.433 min Scan# 1571
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:188 Resp: 287337

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.6	10.0
80	8.6	7.4	11.0



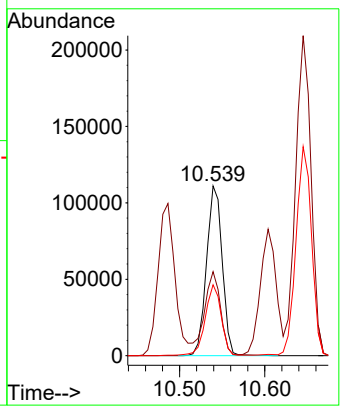


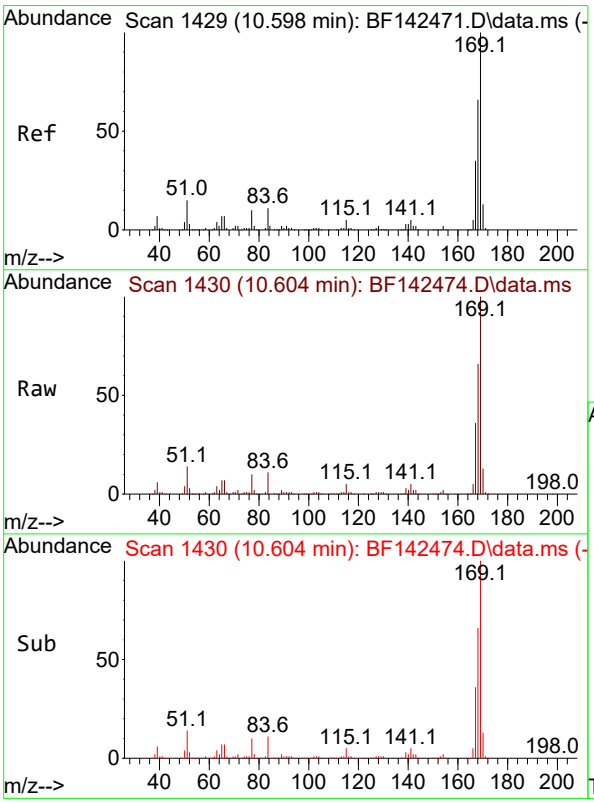
#65
4,6-Dinitro-2-methylphenol
Concen: 88.468 ng
RT: 10.539 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:198 Resp: 141863

Ion	Ratio	Lower	Upper
198	100		
51	49.5	28.3	68.3
105	41.7	21.3	61.3

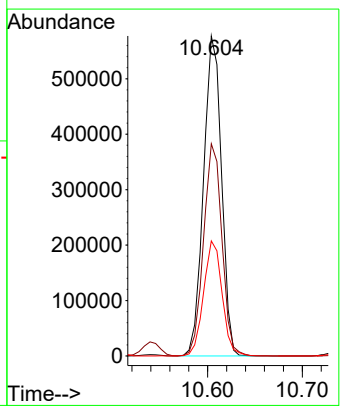


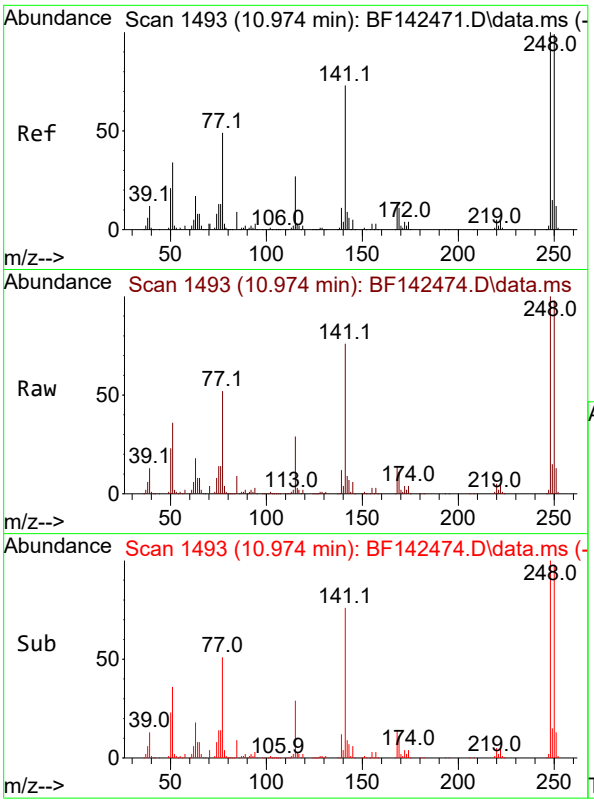


#66
n-Nitrosodiphenylamine
Concen: 77.145 ng
RT: 10.604 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:169 Resp: 758366

Ion	Ratio	Lower	Upper
169	100		
168	66.3	52.7	79.1
167	35.9	28.3	42.5



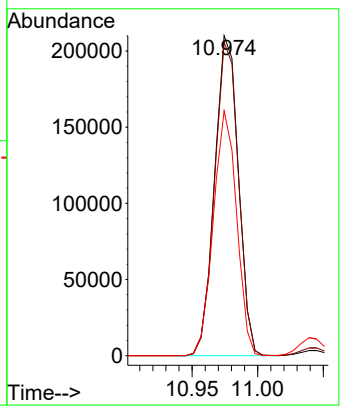


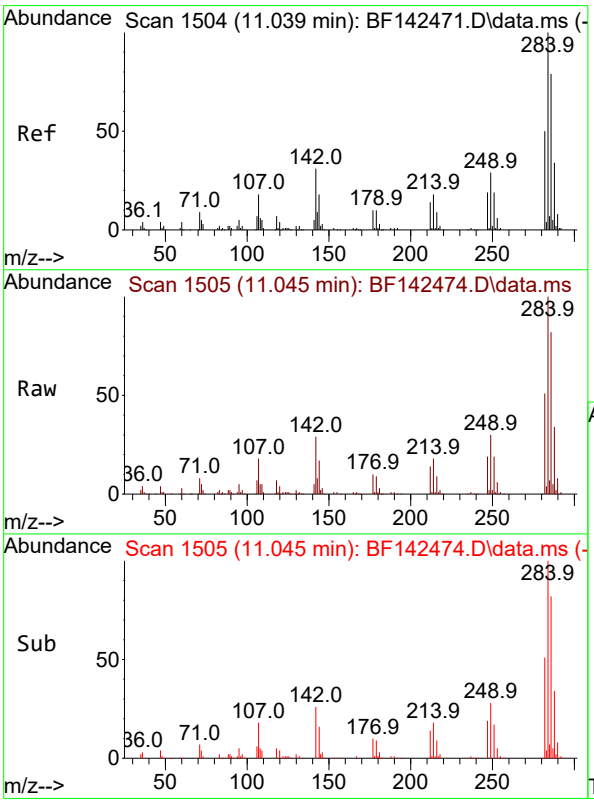
#67
4-Bromophenyl-phenylether
Concen: 77.920 ng
RT: 10.974 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:248 Resp: 264739

Ion	Ratio	Lower	Upper
248	100		
250	98.0	79.0	118.4
141	76.5	58.4	87.6

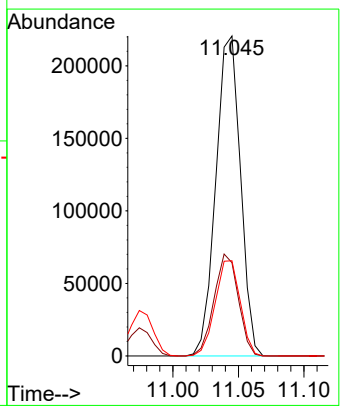


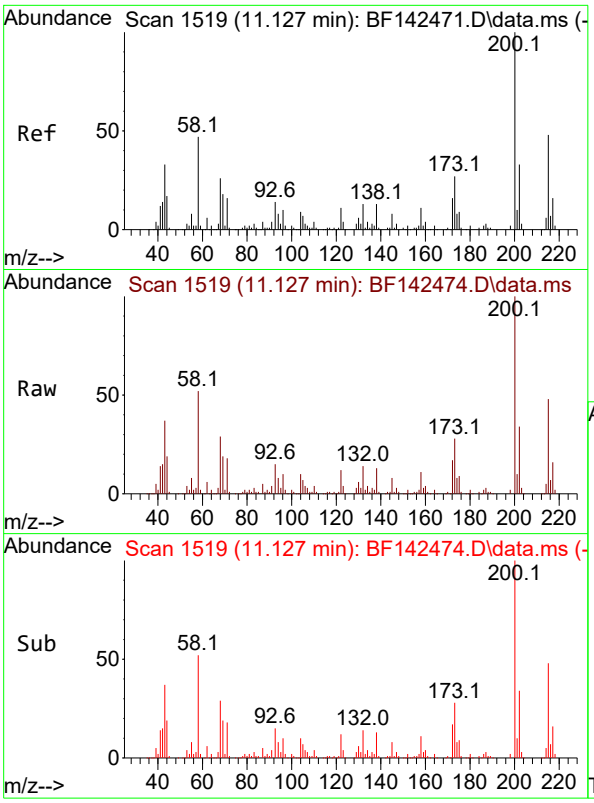


#68
Hexachlorobenzene
Concen: 76.555 ng
RT: 11.045 min Scan# 1505
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:284 Resp: 287676

Ion	Ratio	Lower	Upper
284	100		
142	29.1	24.8	37.2
249	29.8	23.6	35.4



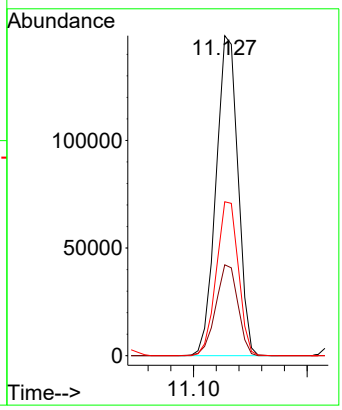


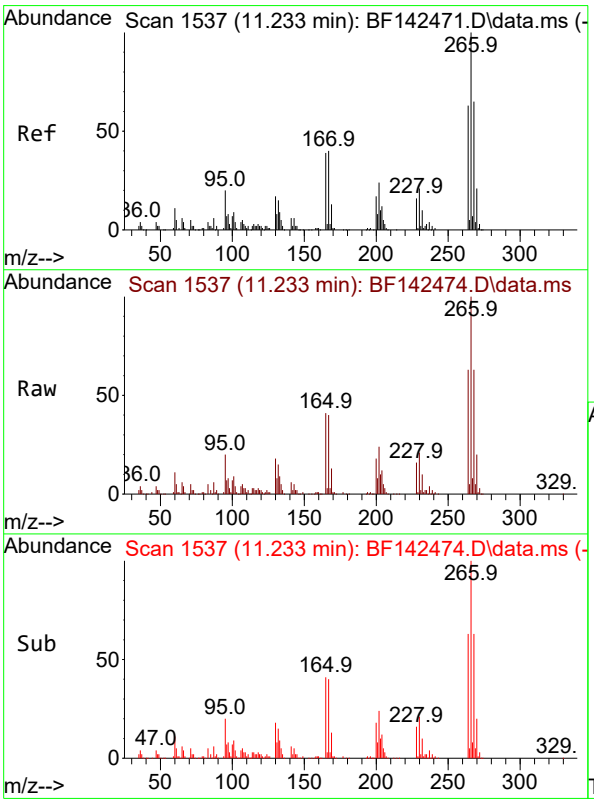
#69
Atrazine
Concen: 76.581 ng
RT: 11.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:200 Resp: 199929

Ion	Ratio	Lower	Upper
200	100		
173	28.4	7.4	47.4
215	48.1	28.5	68.5

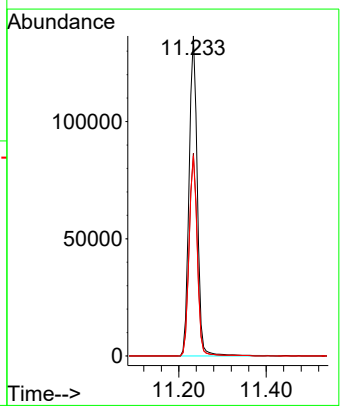


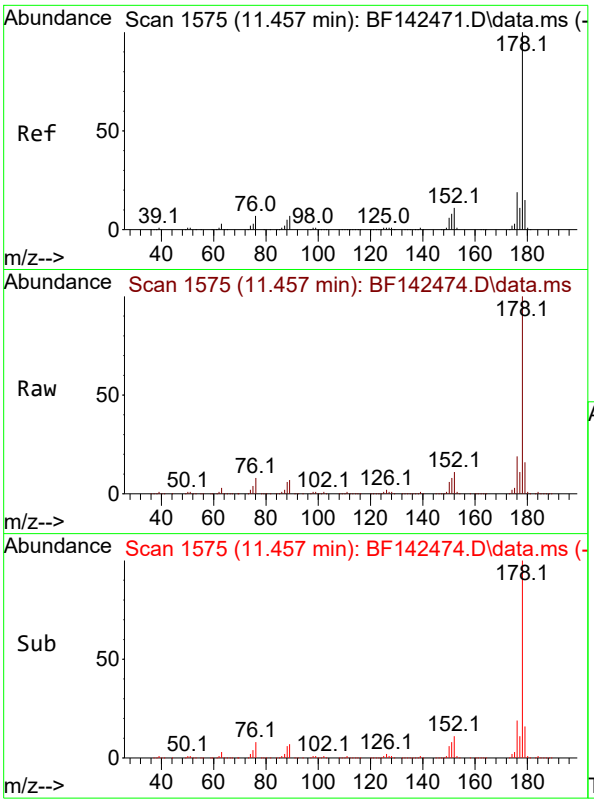


#70
Pentachlorophenol
Concen: 83.666 ng
RT: 11.233 min Scan# 1537
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:266 Resp: 177504

Ion	Ratio	Lower	Upper
266	100		
268	63.3	51.7	77.5
264	62.5	50.4	75.6



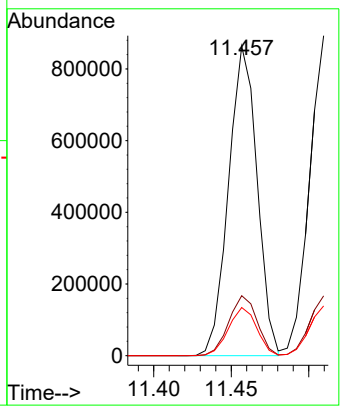


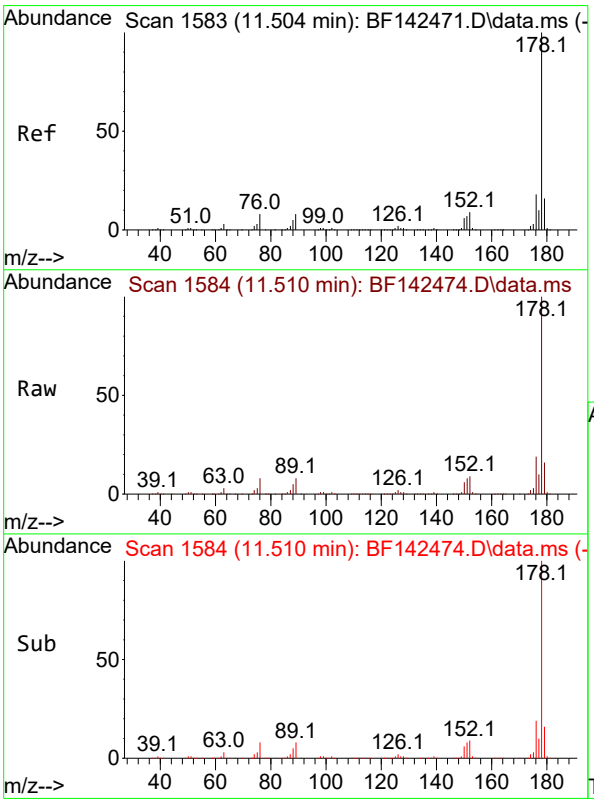
#71
Phenanthrene
Concen: 72.134 ng
RT: 11.457 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:178 Resp: 1107683

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.0
179	15.5	12.3	18.5

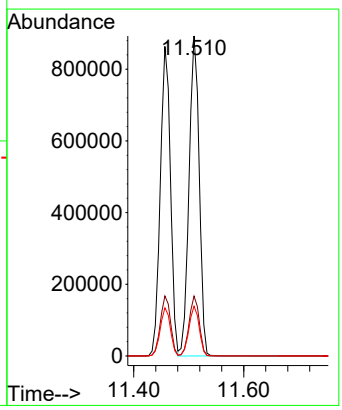


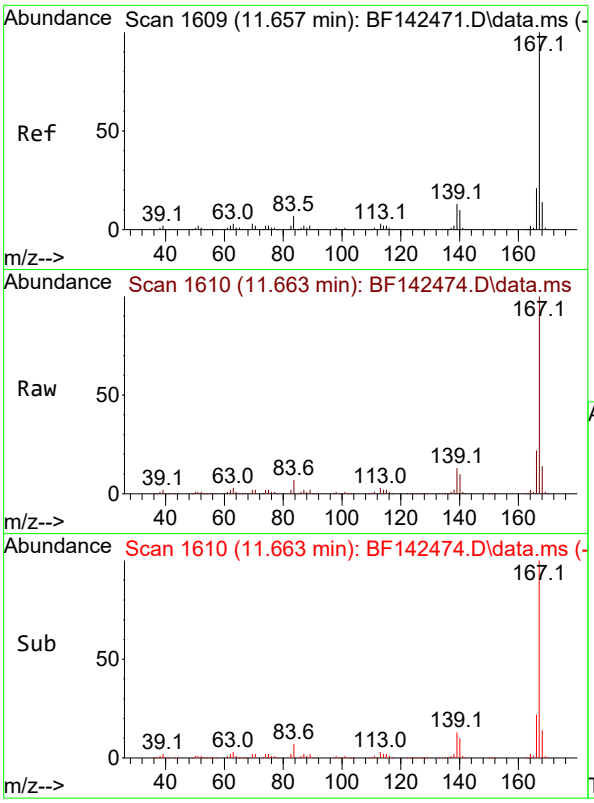


#72
Anthracene
Concen: 73.009 ng
RT: 11.510 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:178 Resp: 1144182

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.6	21.8
179	15.5	12.4	18.6



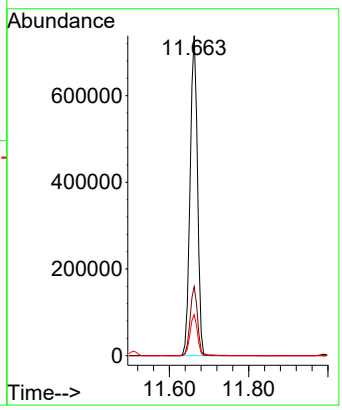


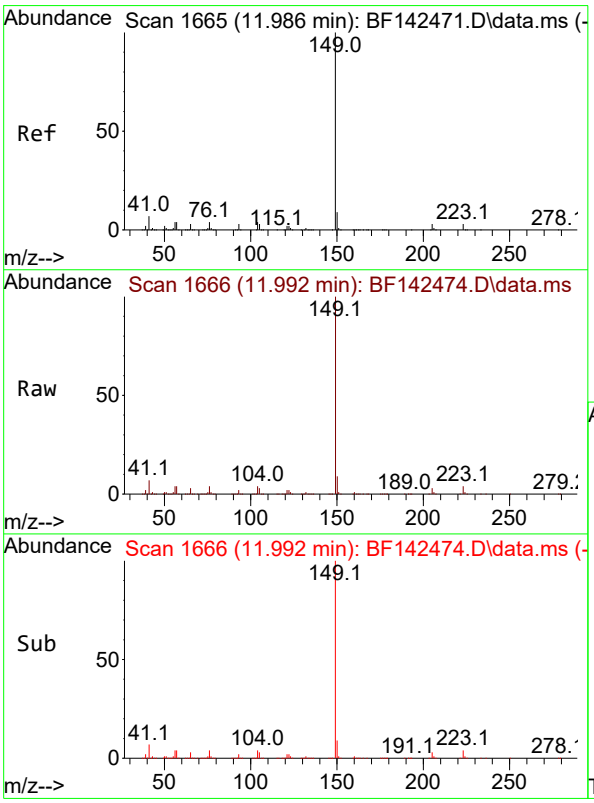
#73
Carbazole
Concen: 71.360 ng
RT: 11.663 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:167 Resp: 956069

Ion	Ratio	Lower	Upper
167	100		
166	21.6	16.9	25.3
139	12.8	10.2	15.4

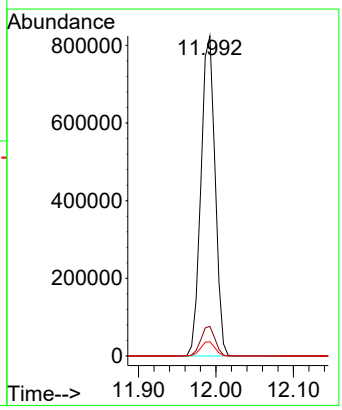


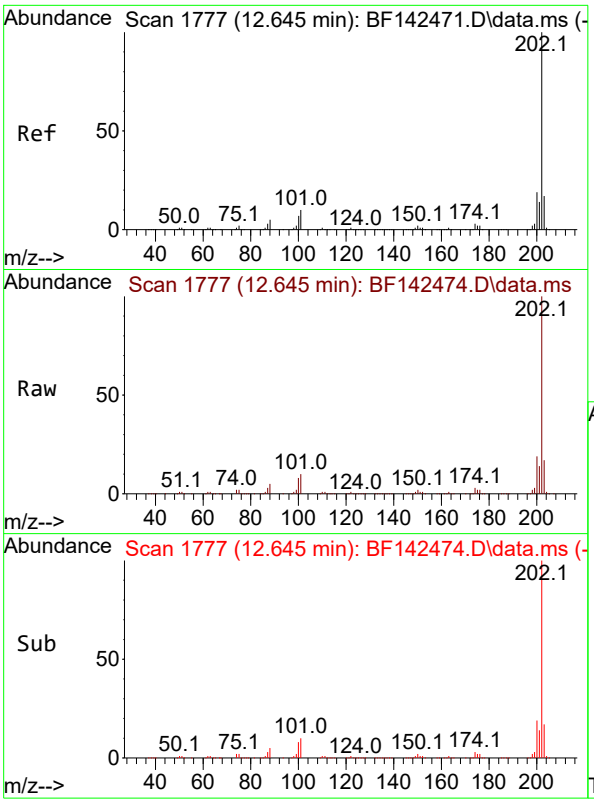


#74
Di-n-butylphthalate
Concen: 71.153 ng
RT: 11.992 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:149 Resp: 1043468

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.3	10.9
104	4.4	3.6	5.4



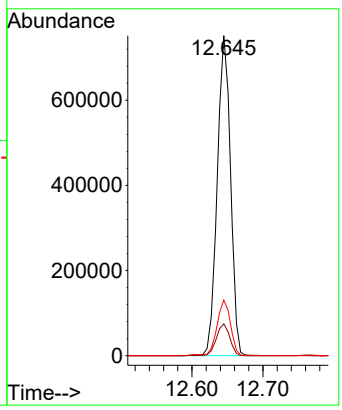


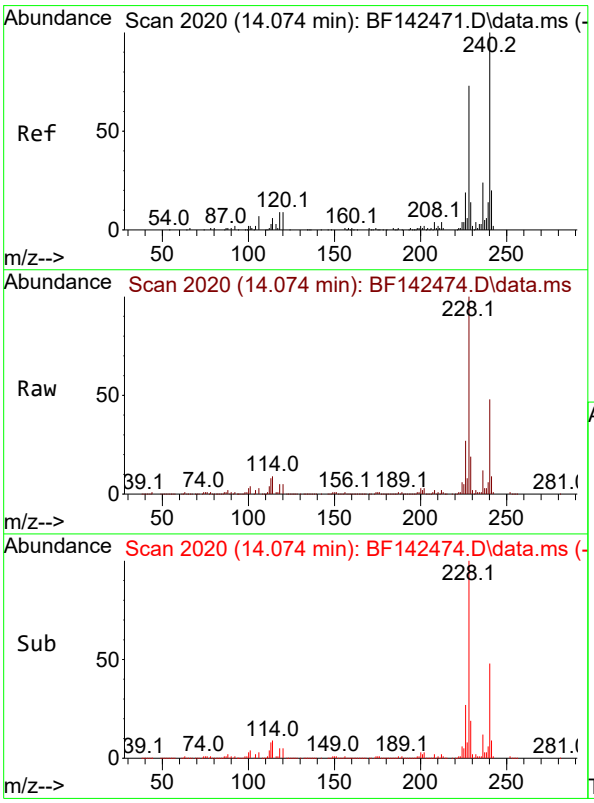
#75
Fluoranthene
Concen: 67.750 ng
RT: 12.645 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:202 Resp: 972105

Ion	Ratio	Lower	Upper
202	100		
101	10.0	0.0	29.6
203	17.4	0.0	37.2

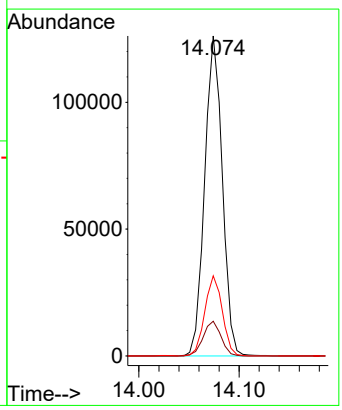


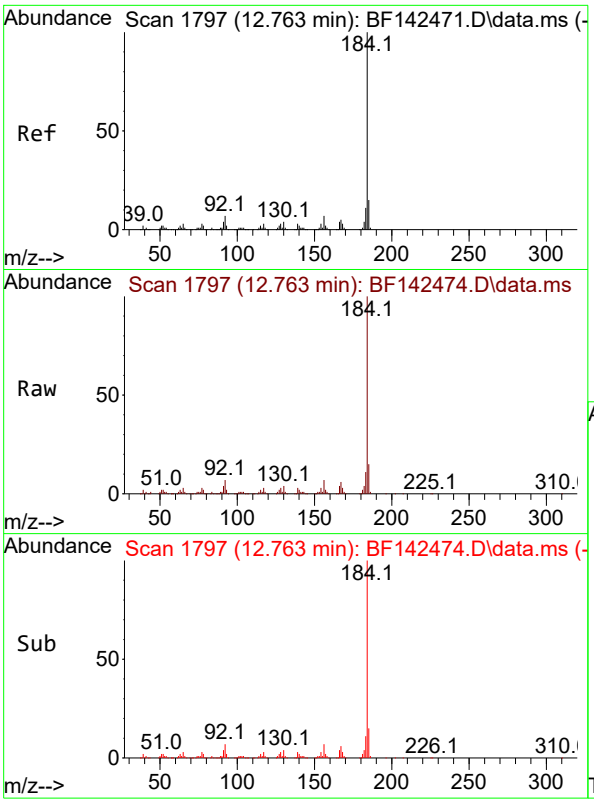


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.074 min Scan# 2020
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:240 Resp: 154555

Ion	Ratio	Lower	Upper
240	100		
120	10.8	7.5	11.3
236	25.1	19.6	29.4



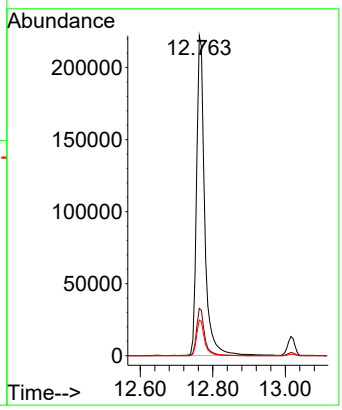


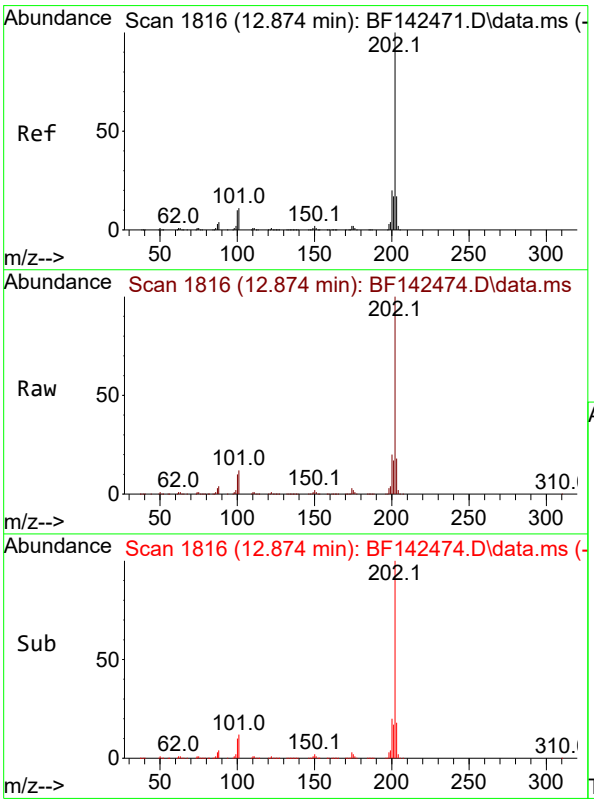
#77
Benzidine
Concen: 59.795 ng
RT: 12.763 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:184 Resp: 343909

Ion	Ratio	Lower	Upper
184	100		
185	14.8	11.6	17.4
183	11.2	9.0	13.4

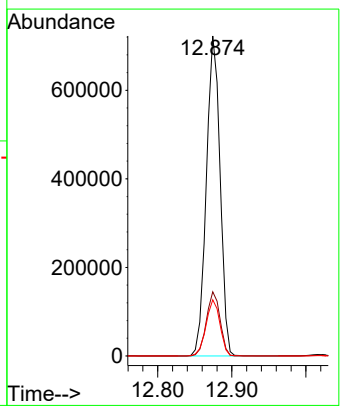


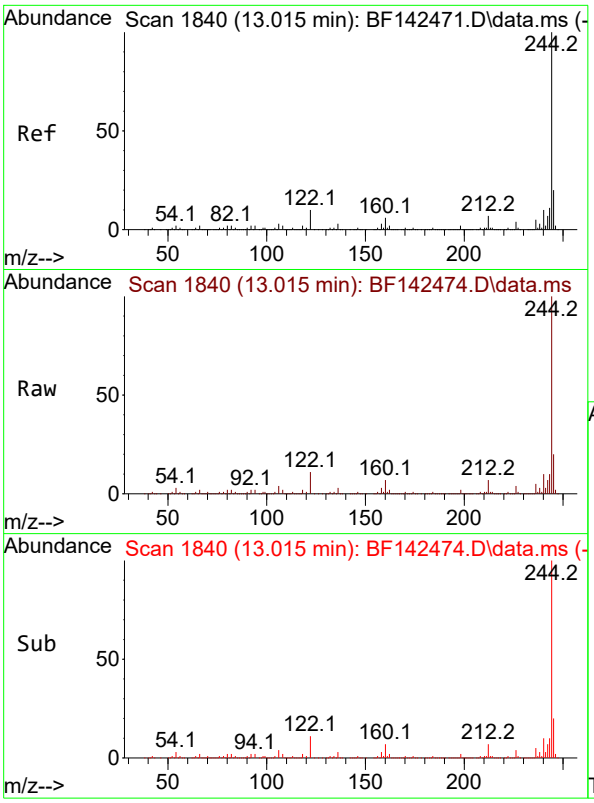


#78
Pyrene
Concen: 64.632 ng
RT: 12.874 min Scan# 1816
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:202 Resp: 931844

Ion	Ratio	Lower	Upper
202	100		
200	20.0	16.1	24.1
203	17.5	13.9	20.9



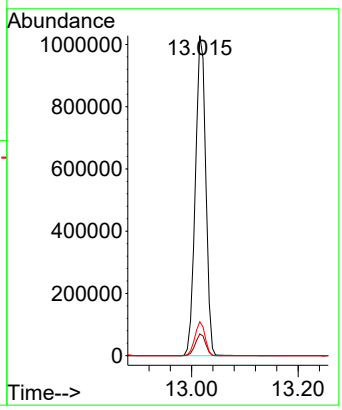


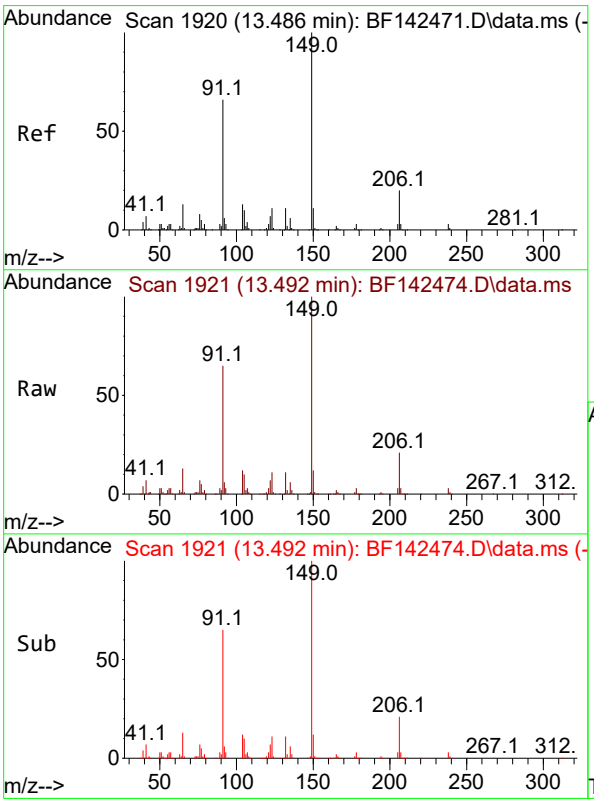
#79
Terphenyl-d14
Concen: 123.140 ng
RT: 13.015 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:244 Resp: 1392704

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.3	7.9
122	10.6	8.2	12.2

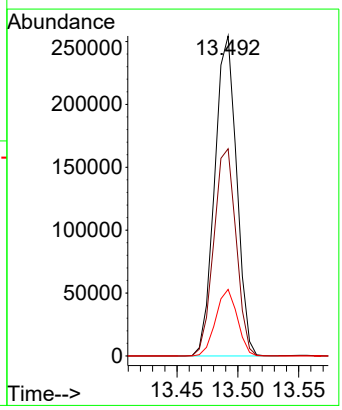


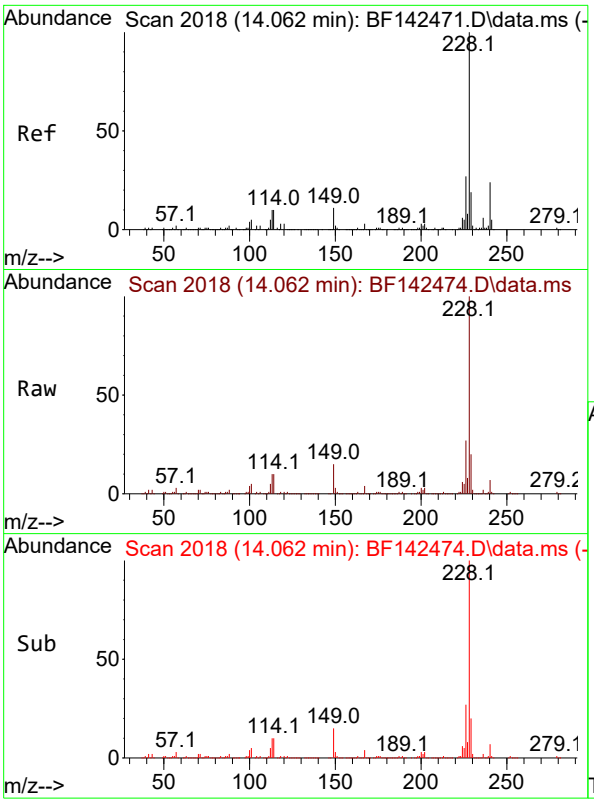


#80
Butylbenzylphthalate
Concen: 80.252 ng
RT: 13.492 min Scan# 1921
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:149 Resp: 319716

Ion	Ratio	Lower	Upper
149	100		
91	64.7	52.9	79.3
206	20.8	16.2	24.2



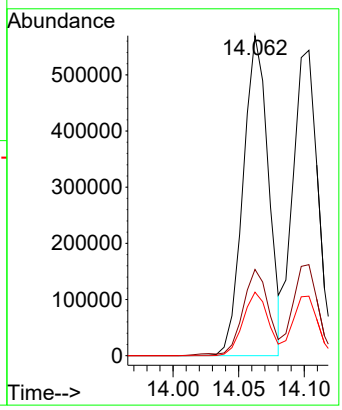


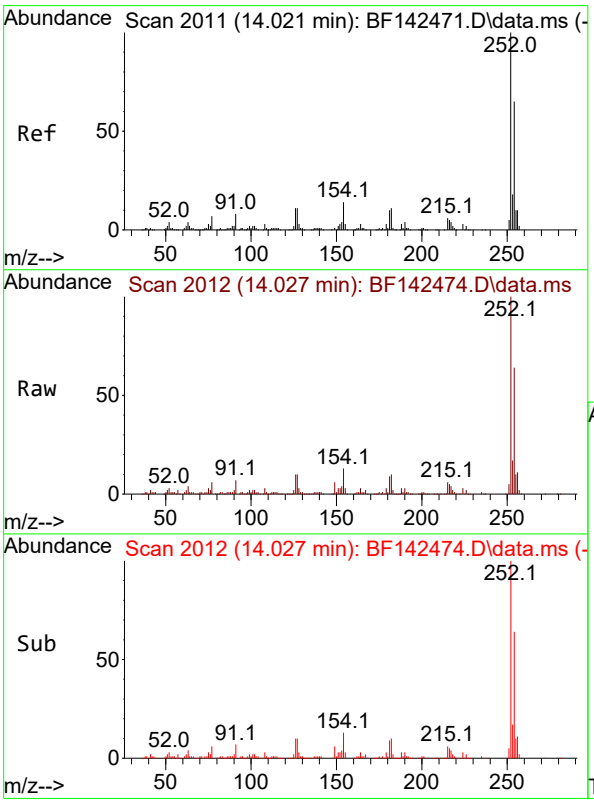
#81
Benzo(a)anthracene
Concen: 74.167 ng
RT: 14.062 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:228 Resp: 765441

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.2	31.8
229	19.9	15.5	23.3

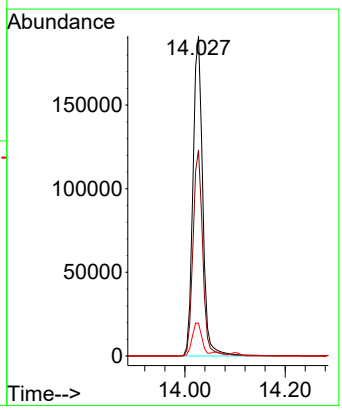


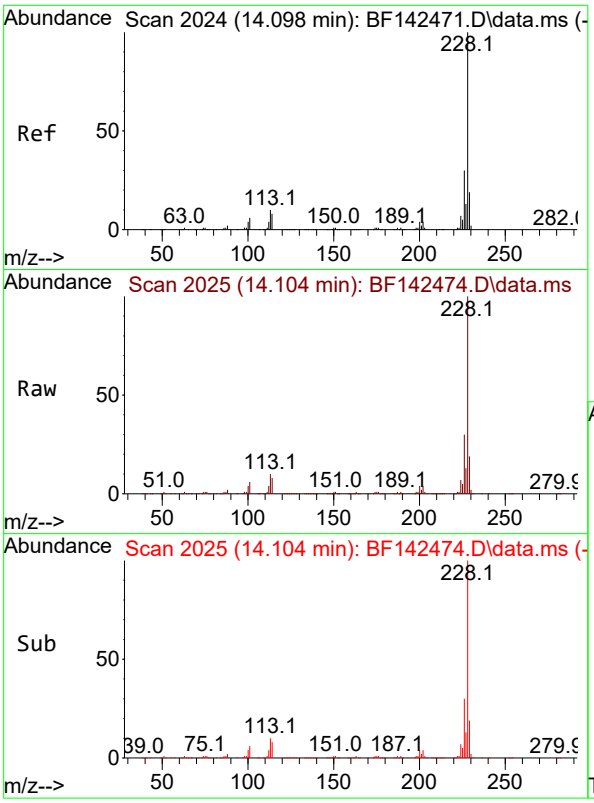


#82
3,3'-Dichlorobenzidine
Concen: 82.274 ng
RT: 14.027 min Scan# 2012
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:252 Resp: 257542

Ion	Ratio	Lower	Upper
252	100		
254	64.4	52.0	78.0
126	10.2	8.9	13.3



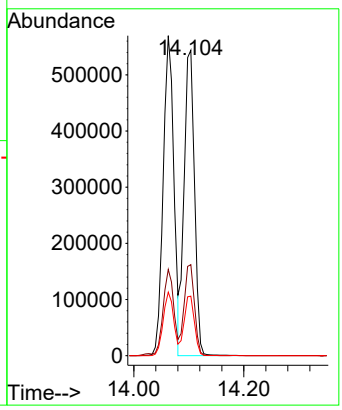


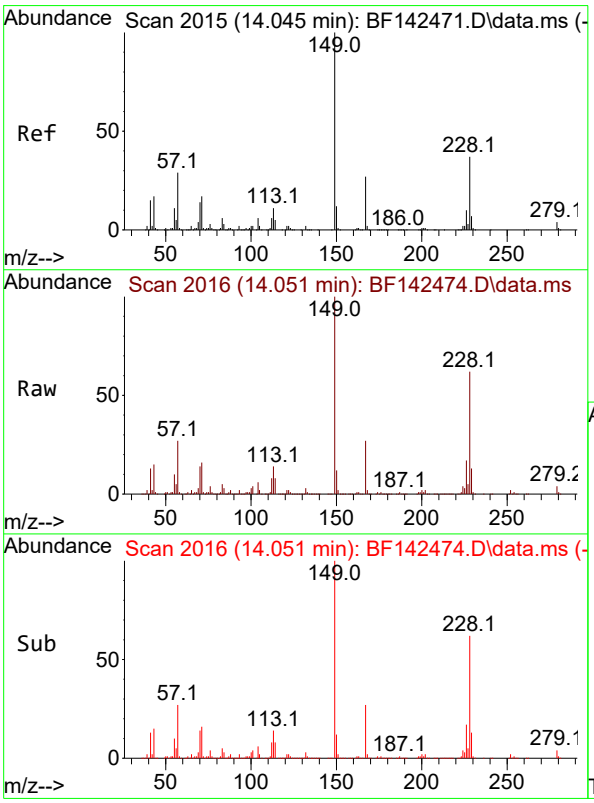
#83
Chrysene
Concen: 77.206 ng
RT: 14.104 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:228 Resp: 715970

Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.8	35.6
229	19.5	15.4	23.2

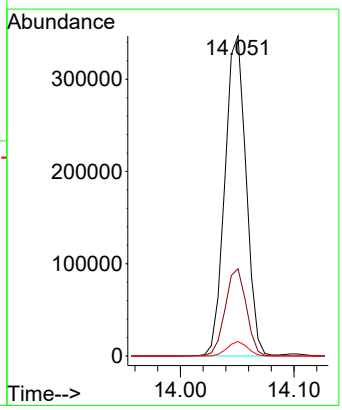


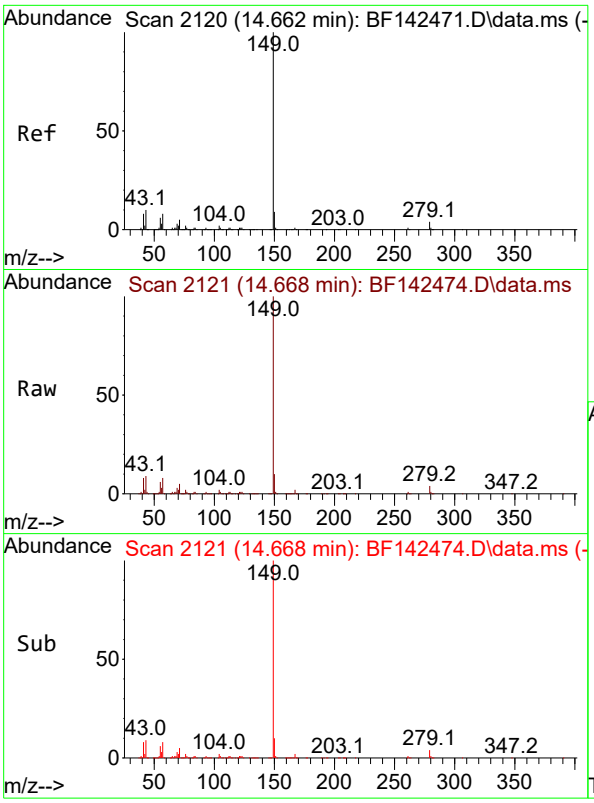


#84
Bis(2-ethylhexyl)phthalate
Concen: 88.168 ng
RT: 14.051 min Scan# 2016
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:149 Resp: 449654

Ion	Ratio	Lower	Upper
149	100		
167	27.3	21.5	32.3
279	4.5	3.2	4.8



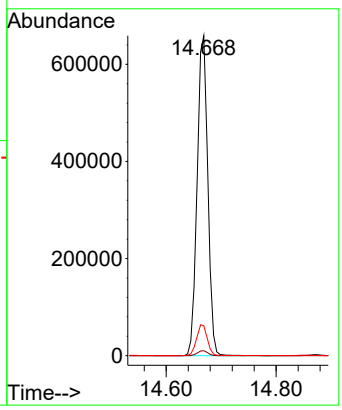


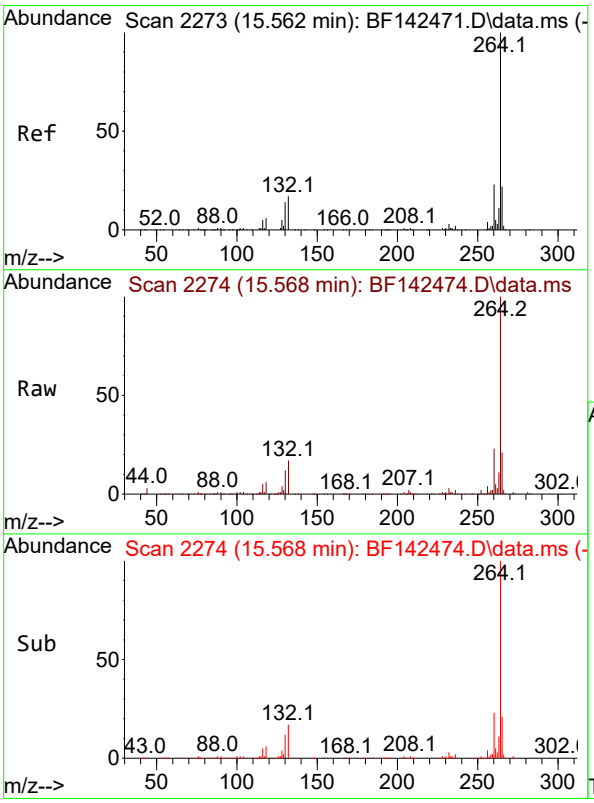
#85
Di-n-octyl phthalate
Concen: 89.073 ng
RT: 14.668 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 888230

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	9.7	7.9	11.9

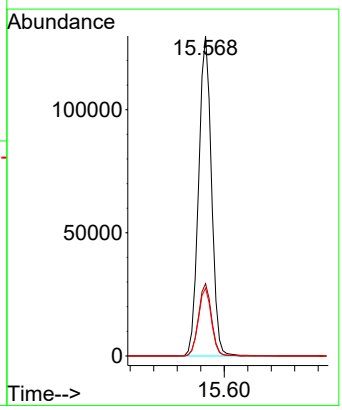


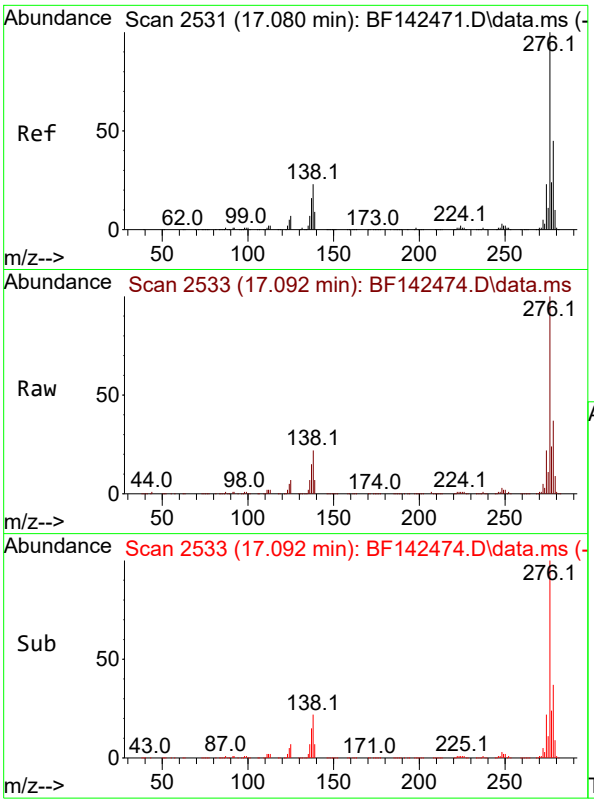


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.568 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:264 Resp: 196342

Ion	Ratio	Lower	Upper
264	100		
260	22.6	18.6	28.0
265	21.2	17.7	26.5



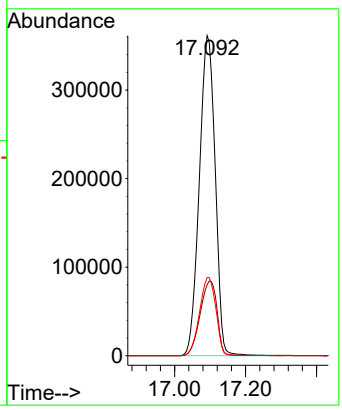


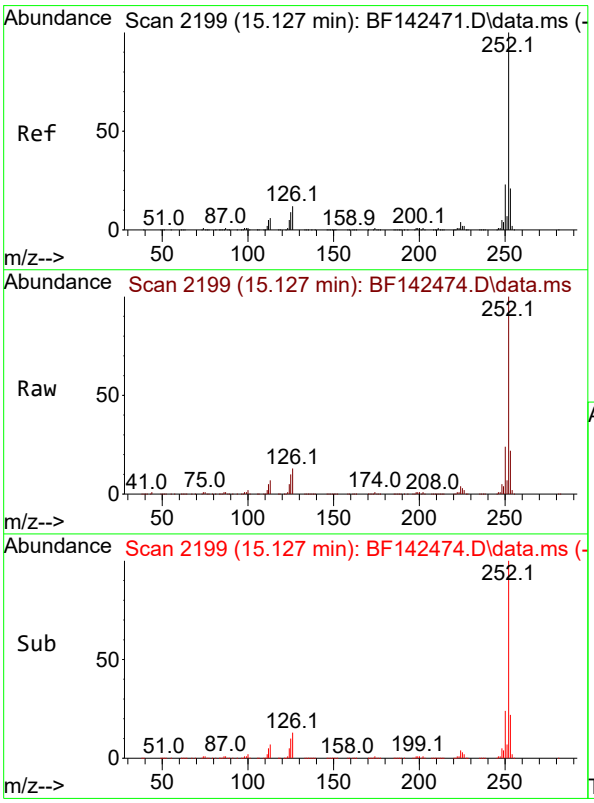
#87
Indeno(1,2,3-cd)pyrene
Concen: 76.417 ng
RT: 17.092 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:276 Resp: 1126401

Ion	Ratio	Lower	Upper
276	100		
138	24.8	19.9	29.9
277	25.2	20.2	30.2

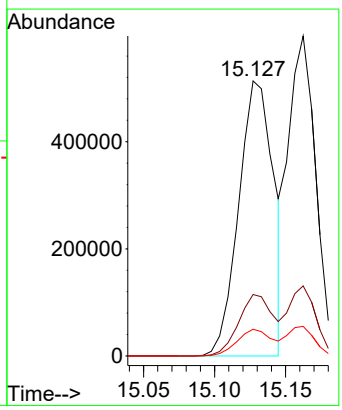


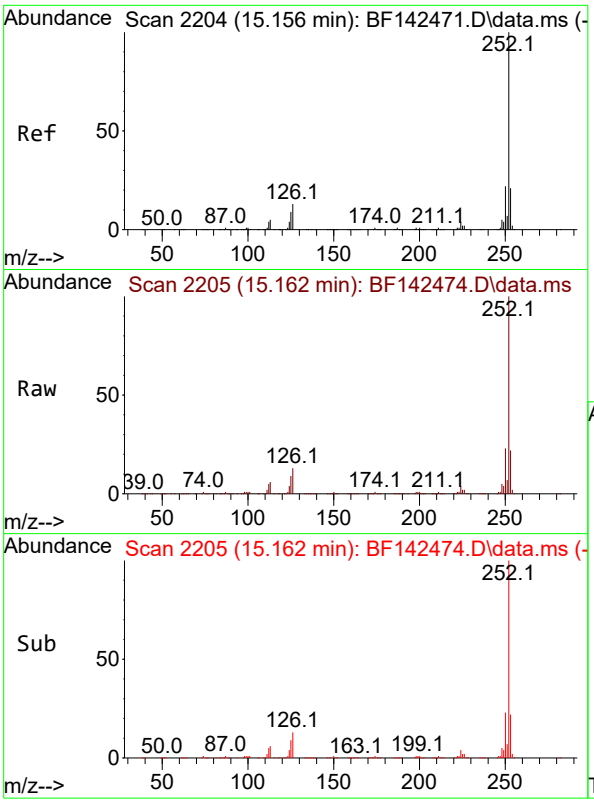


#88
Benzo(b)fluoranthene
Concen: 75.267 ng
RT: 15.127 min Scan# 2199
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:252 Resp: 874640

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.0	25.4
125	9.7	7.4	11.0



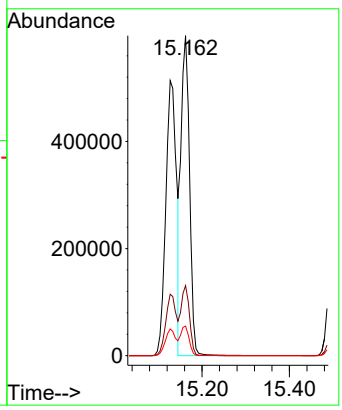


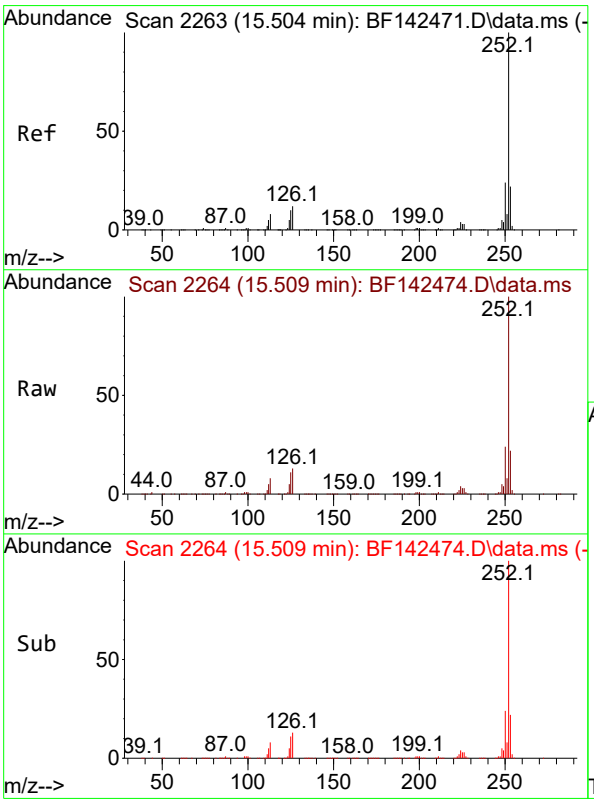
#89
Benzo(k)fluoranthene
Concen: 73.850 ng
RT: 15.162 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:252 Resp: 803775

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.0	25.4
125	9.2	7.3	10.9

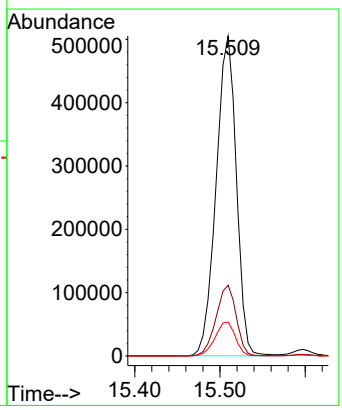


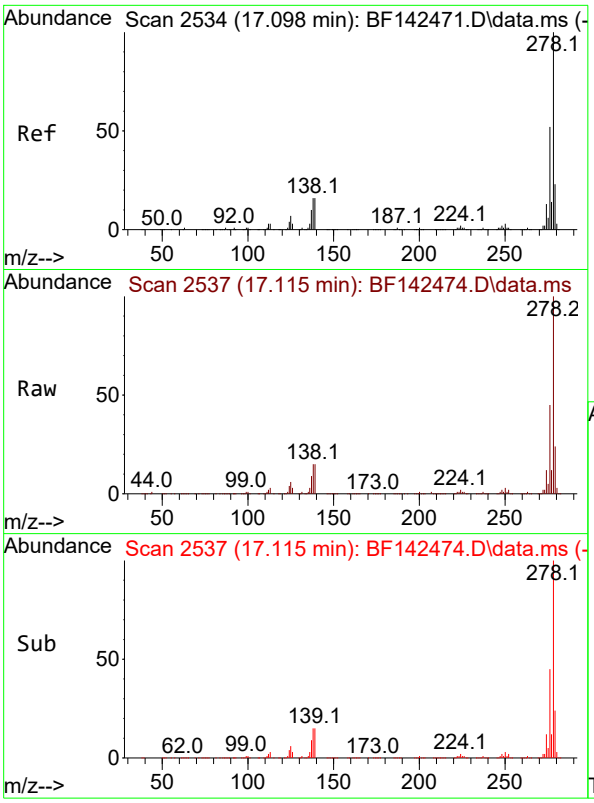


#90
Benzo(a)pyrene
Concen: 76.121 ng
RT: 15.509 min Scan# 2264
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:252 Resp: 833783

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.4	26.0
125	10.6	7.9	11.9



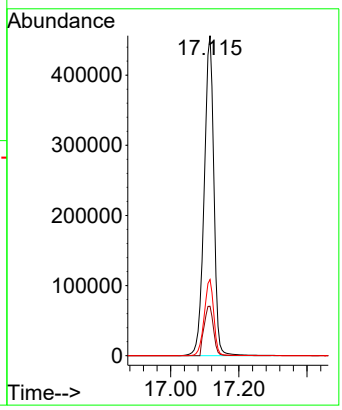


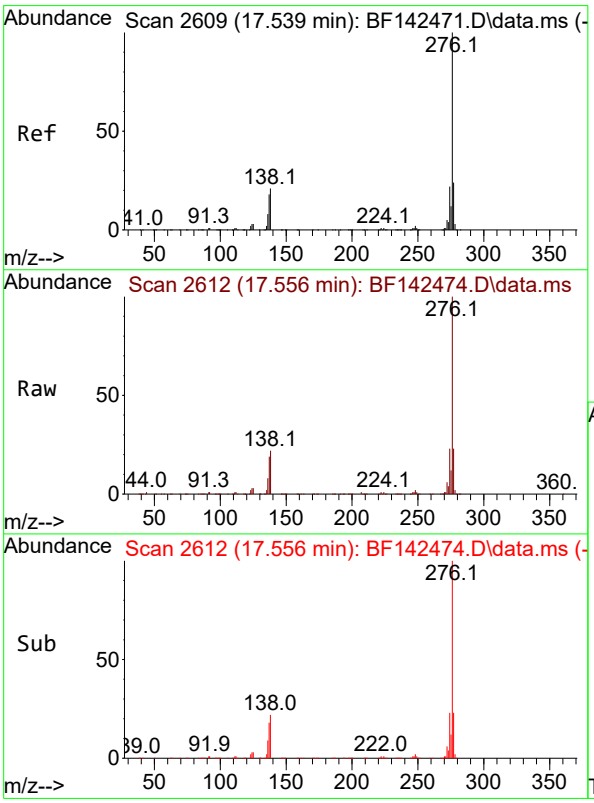
#91
Dibenzo(a,h)anthracene
Concen: 75.513 ng
RT: 17.115 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:278 Resp: 902757

Ion	Ratio	Lower	Upper
278	100		
139	15.5	12.8	19.2
279	23.8	18.6	28.0

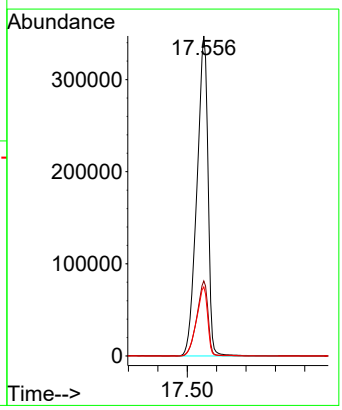




#92
Benzo(g,h,i)perylene
Concen: 76.073 ng
RT: 17.556 min Scan# 2612
Delta R.T. 0.000 min
Lab File: BF142474.D
Acq: 20 May 2025 15:31

Tgt Ion:276 Resp: 909649

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.2	28.8
138	21.6	16.8	25.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142475.D
Acq On : 20 May 2025 16:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Quant Time: May 20 17:07:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	99411	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	385222	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	213164	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	348749	20.000	ng	0.00
76) Chrysene-d12	14.074	240	171632	20.000	ng	0.00
86) Perylene-d12	15.562	264	195956	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	443470	75.157	ng	0.00
7) Phenol-d6	6.522	99	539999	76.025	ng	-0.01
23) Nitrobenzene-d5	7.463	82	545967	77.283	ng	-0.01
42) 2,4,6-Tribromophenol	10.733	330	179309	75.790	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	1152622	72.557	ng	0.00
79) Terphenyl-d14	13.016	244	976059	77.714	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.663	88	90159	38.184	ng	99
3) Pyridine	3.434	79	232139	38.607	ng	99
4) n-Nitrosodimethylamine	3.381	42	121742	38.995	ng	99
6) Aniline	6.563	93	366889	38.415	ng	99
8) 2-Chlorophenol	6.681	128	243599	37.902	ng	97
9) Benzaldehyde	6.451	77	165445	38.726	ng	98
10) Phenol	6.539	94	306601	38.362	ng	99
11) bis(2-Chloroethyl)ether	6.634	93	220228	38.280	ng	100
12) 1,3-Dichlorobenzene	6.839	146	269504	37.579	ng	100
13) 1,4-Dichlorobenzene	6.922	146	275076	38.078	ng	98
14) 1,2-Dichlorobenzene	7.069	146	260709	37.716	ng	100
15) Benzyl Alcohol	7.039	79	202944	38.663	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.175	45	366430	37.927	ng	100
17) 2-Methylphenol	7.145	107	193190	38.500	ng	99
18) Hexachloroethane	7.416	117	96202	38.137	ng	99
19) n-Nitroso-di-n-propyla...	7.310	70	166542	37.833	ng	99
20) 3+4-Methylphenols	7.304	107	244310	38.020	ng	100
22) Acetophenone	7.310	105	325056	38.118	ng	100
24) Nitrobenzene	7.486	77	246818	38.737	ng	100
25) Isophorone	7.722	82	447723	37.906	ng	99
26) 2-Nitrophenol	7.798	139	136039	39.958	ng	99
27) 2,4-Dimethylphenol	7.833	122	233871	38.953	ng	99
28) bis(2-Chloroethoxy)met...	7.934	93	283379	38.407	ng	99
29) 2,4-Dichlorophenol	8.039	162	209040	38.285	ng	99
30) 1,2,4-Trichlorobenzene	8.128	180	226285	38.187	ng	98
31) Naphthalene	8.210	128	722913	38.112	ng	100
32) Benzoic acid	7.939	122	147981	40.490	ng	98
33) 4-Chloroaniline	8.251	127	299462	38.962	ng	99
34) Hexachlorobutadiene	8.322	225	142496	38.512	ng	99
35) Caprolactam	8.622	113	60055	39.162	ng	99
36) 4-Chloro-3-methylphenol	8.728	107	216299	38.654	ng	99
37) 2-Methylnaphthalene	8.898	142	454200	38.062	ng	100
38) 1-Methylnaphthalene	8.998	142	471880	38.229	ng	100
40) 1,2,4,5-Tetrachloroben...	9.063	216	229514	37.508	ng	99
41) Hexachlorocyclopentadiene	9.051	237	165077	39.991	ng	100
43) 2,4,6-Trichlorophenol	9.175	196	156603	37.954	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142475.D
Acq On : 20 May 2025 16:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Quant Time: May 20 17:07:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	164342	37.766	ng		99
46) 1,1'-Biphenyl	9.363	154	619947	37.487	ng		100
47) 2-Chloronaphthalene	9.386	162	461414	37.763	ng		99
48) 2-Nitroaniline	9.480	65	137268	38.867	ng		99
49) Acenaphthylene	9.804	152	776377	37.630	ng		100
50) Dimethylphthalate	9.663	163	523004	37.184	ng		100
51) 2,6-Dinitrotoluene	9.722	165	115938	38.191	ng		98
52) Acenaphthene	9.975	154	477197	37.877	ng		100
53) 3-Nitroaniline	9.892	138	126814	38.246	ng		98
54) 2,4-Dinitrophenol	9.992	184	65057	41.481	ng	#	35
55) Dibenzofuran	10.145	168	673871	37.170	ng		100
56) 4-Nitrophenol	10.045	139	96197	39.320	ng		98
57) 2,4-Dinitrotoluene	10.127	165	152488	38.463	ng		99
58) Fluorene	10.492	166	513487	36.662	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.263	232	138047	38.000	ng		98
60) Diethylphthalate	10.363	149	519861	37.844	ng		100
61) 4-Chlorophenyl-phenyle...	10.480	204	254467	36.985	ng		99
62) 4-Nitroaniline	10.504	138	114671	38.132	ng		100
63) Azobenzene	10.645	77	466131	37.780	ng		99
65) 4,6-Dinitro-2-methylph...	10.533	198	82393	42.334	ng		99
66) n-Nitrosodiphenylamine	10.598	169	454975	38.132	ng		99
67) 4-Bromophenyl-phenylether	10.974	248	157480	38.189	ng		99
68) Hexachlorobenzene	11.039	284	175840	38.554	ng		99
69) Atrazine	11.127	200	125293	39.541	ng		99
70) Pentachlorophenol	11.227	266	105232	40.866	ng		98
71) Phenanthrene	11.457	178	698503	37.478	ng		100
72) Anthracene	11.504	178	723416	38.032	ng		100
73) Carbazole	11.657	167	622812	38.300	ng		100
74) Di-n-butylphthalate	11.986	149	686988	38.596	ng		100
75) Fluoranthene	12.645	202	652697	37.479	ng		100
77) Benzidine	12.763	184	271606	42.525	ng		100
78) Pyrene	12.874	202	642163	40.108	ng		100
80) Butylbenzylphthalate	13.492	149	178179	40.275	ng		97
81) Benzo(a)anthracene	14.063	228	435297	37.981	ng		99
82) 3,3'-Dichlorobenzidine	14.021	252	135132	38.874	ng		100
83) Chrysene	14.098	228	388943	37.768	ng		99
84) Bis(2-ethylhexyl)phtha...	14.051	149	229915	40.596	ng		99
85) Di-n-octyl phthalate	14.662	149	443488	40.048	ng		100
87) Indeno(1,2,3-cd)pyrene	17.080	276	574771	39.070	ng		100
88) Benzo(b)fluoranthene	15.121	252	433704	37.396	ng		98
89) Benzo(k)fluoranthene	15.157	252	404679	37.255	ng		99
90) Benzo(a)pyrene	15.504	252	421730	38.578	ng		100
91) Dibenzo(a,h)anthracene	17.098	278	463752	38.868	ng		100
92) Benzo(g,h,i)perylene	17.539	276	457604	38.345	ng		99

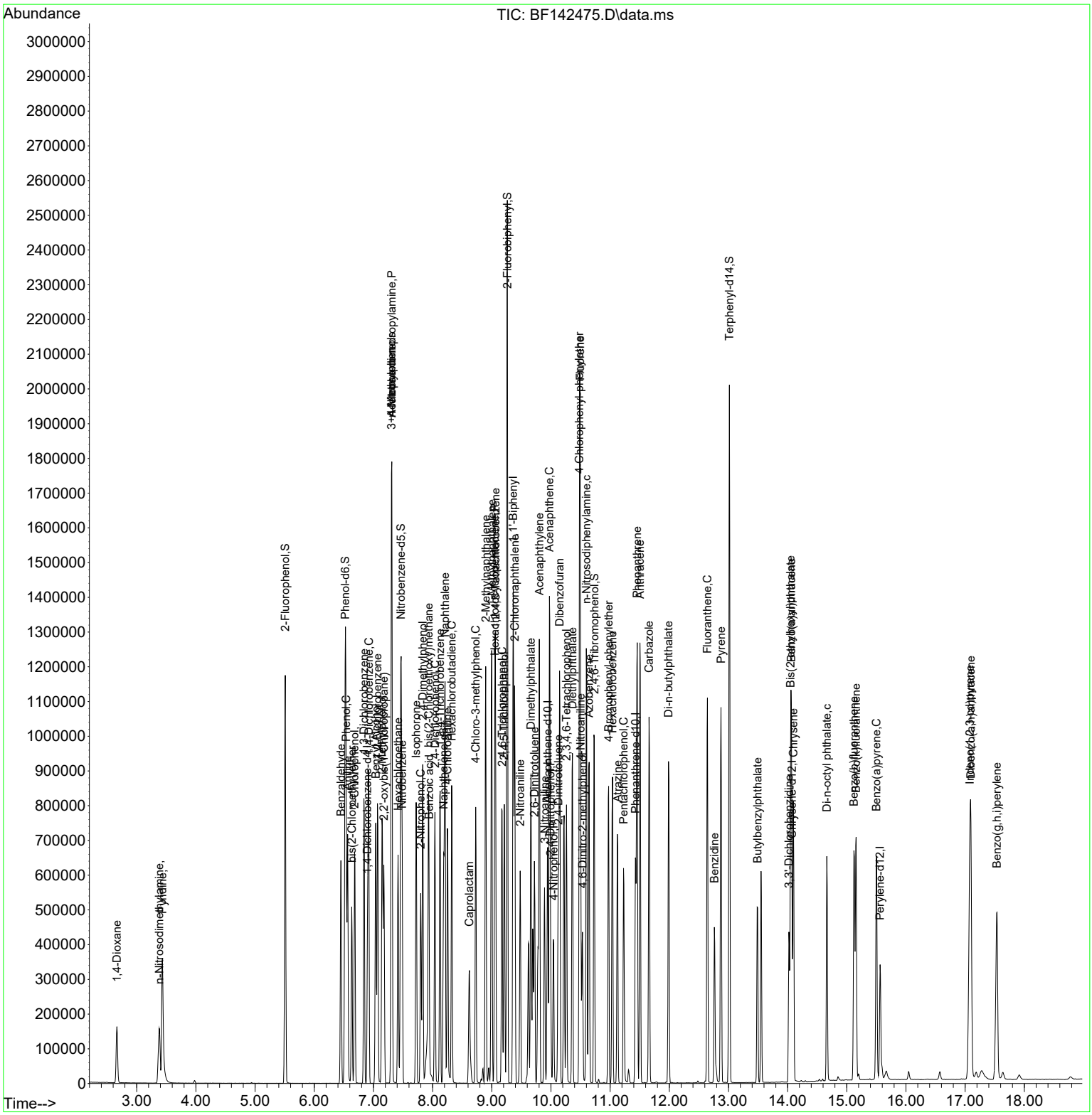
(#) = qualifier out of range (m) = manual integration (+) = signals summed

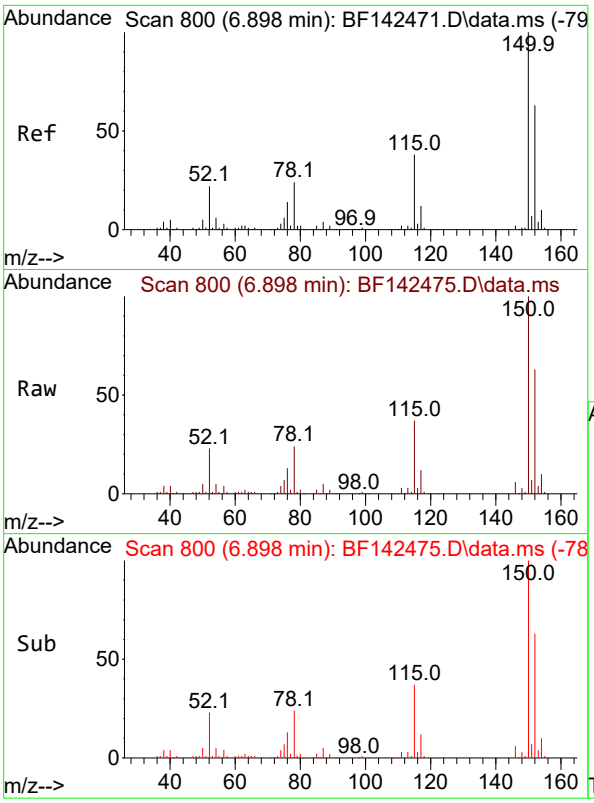
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142475.D
Acq On : 20 May 2025 16:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Quant Time: May 20 17:07:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



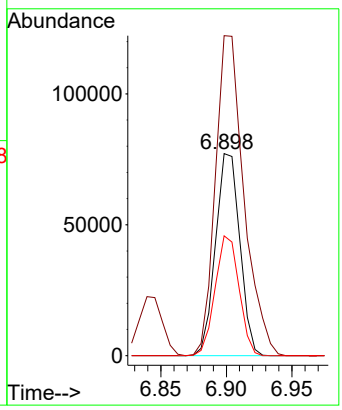


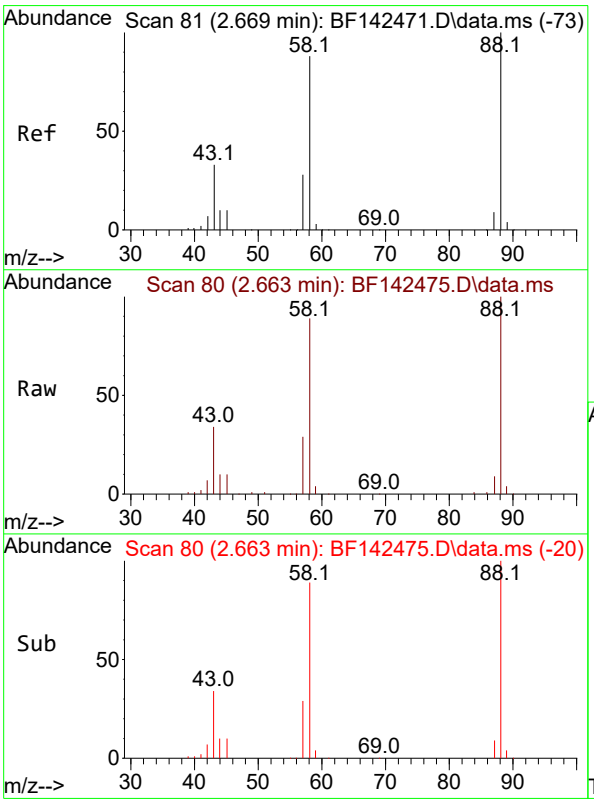
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:152 Resp: 99411

Ion	Ratio	Lower	Upper
152	100		
150	158.4	128.2	192.4
115	59.3	48.3	72.5

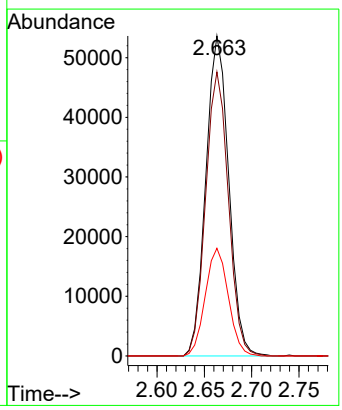


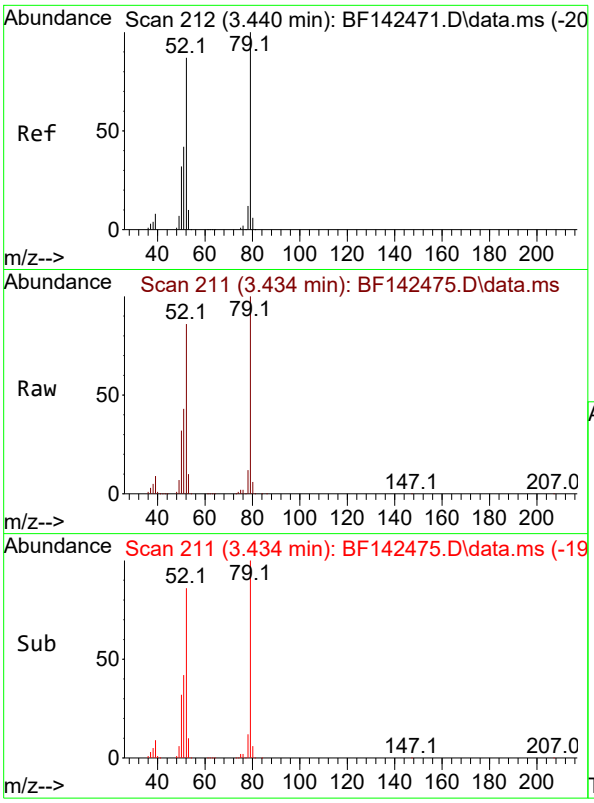


#2
1,4-Dioxane
Concen: 38.184 ng
RT: 2.663 min Scan# 80
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion: 88 Resp: 90159

Ion	Ratio	Lower	Upper
88	100		
58	88.1	70.8	106.2
43	33.9	26.6	40.0



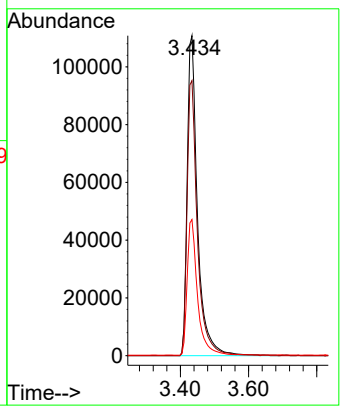


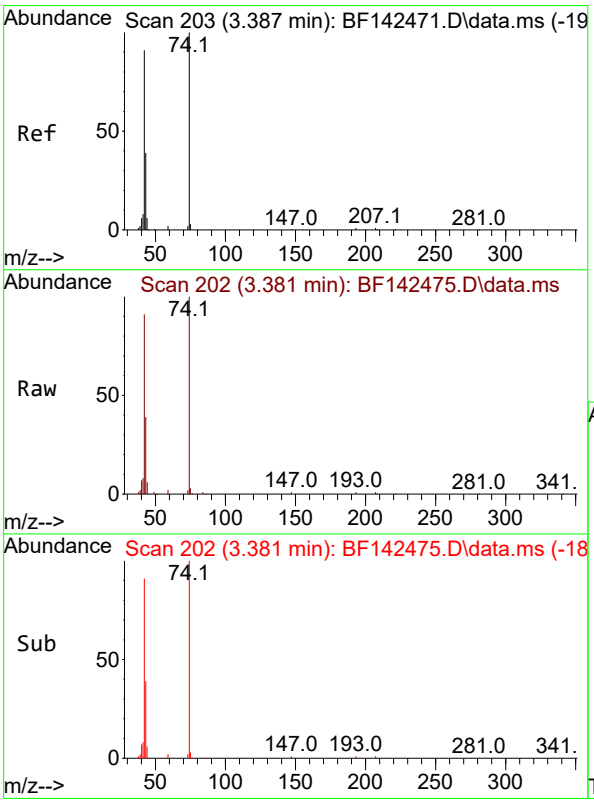
#3
Pyridine
Concen: 38.607 ng
RT: 3.434 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion: 79 Resp: 232139

Ion	Ratio	Lower	Upper
79	100		
52	85.9	69.2	103.8
51	42.6	33.3	49.9

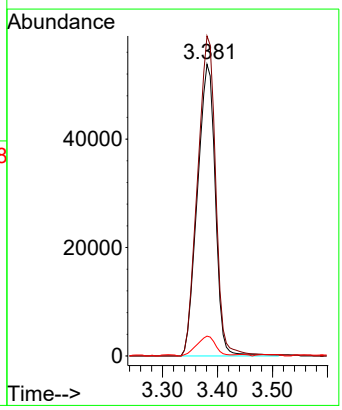


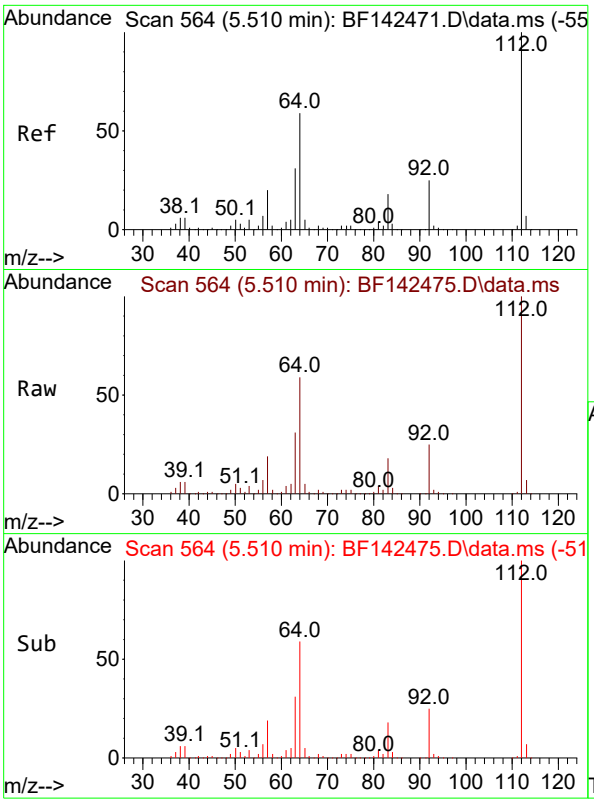


#4
n-Nitrosodimethylamine
Concen: 38.995 ng
RT: 3.381 min Scan# 202
Delta R.T. -0.023 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion: 42 Resp: 121742

Ion	Ratio	Lower	Upper
42	100		
74	109.7	88.2	132.4
44	6.8	5.4	8.2



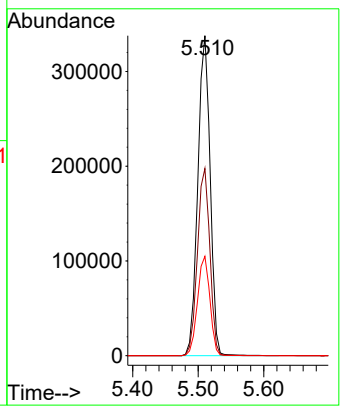


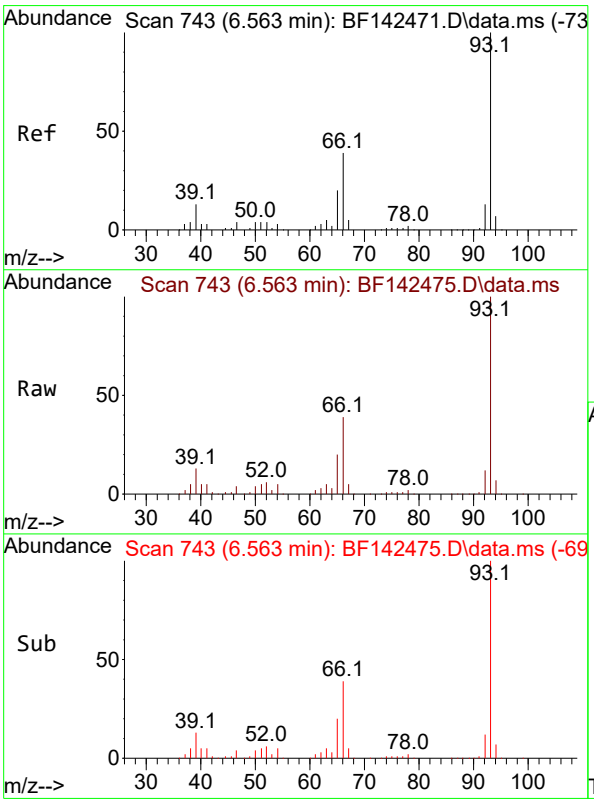
#5
2-Fluorophenol
Concen: 75.157 ng
RT: 5.510 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:112 Resp: 443470

Ion	Ratio	Lower	Upper
112	100		
64	58.5	47.5	71.3
63	31.1	24.9	37.3

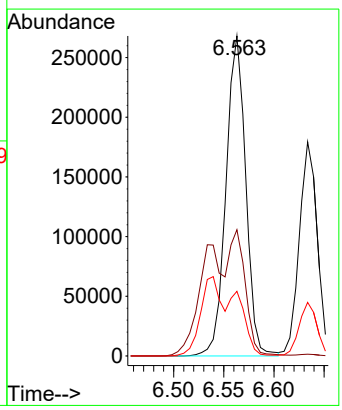


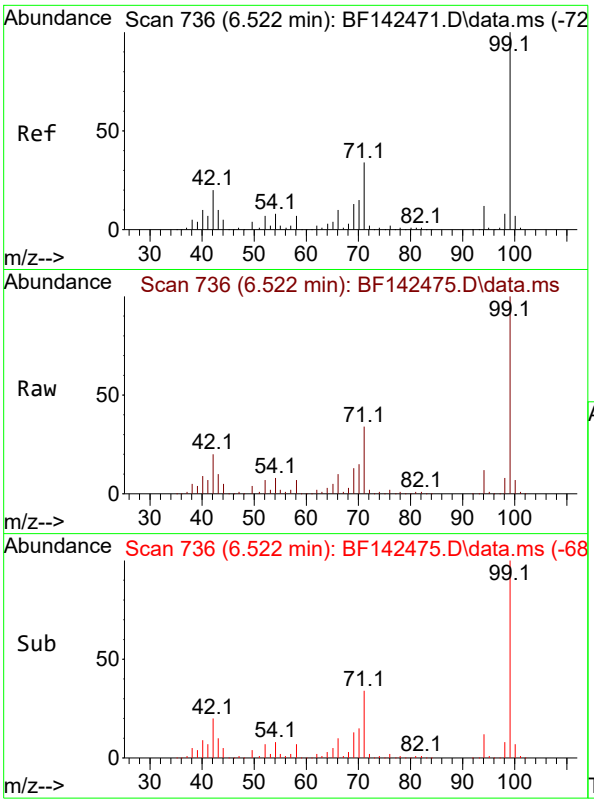


#6
Aniline
Concen: 38.415 ng
RT: 6.563 min Scan# 743
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion: 93 Resp: 366889

Ion	Ratio	Lower	Upper
93	100		
66	39.5	32.0	48.0
65	20.2	16.1	24.1



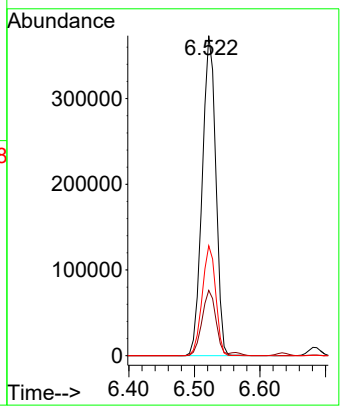


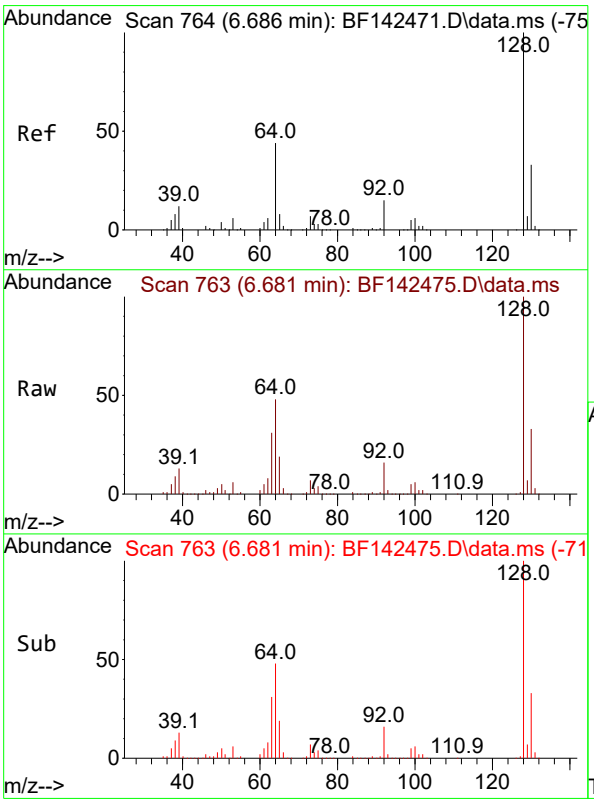
#7
Phenol-d6
Concen: 76.025 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion: 99 Resp: 539999

Ion	Ratio	Lower	Upper
99	100		
42	20.4	16.2	24.2
71	34.3	27.3	40.9

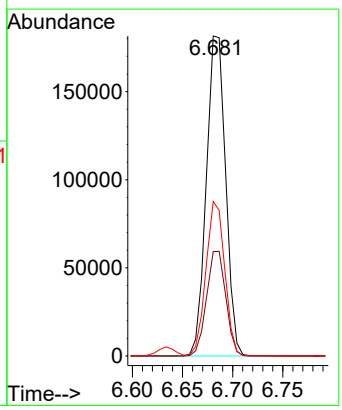


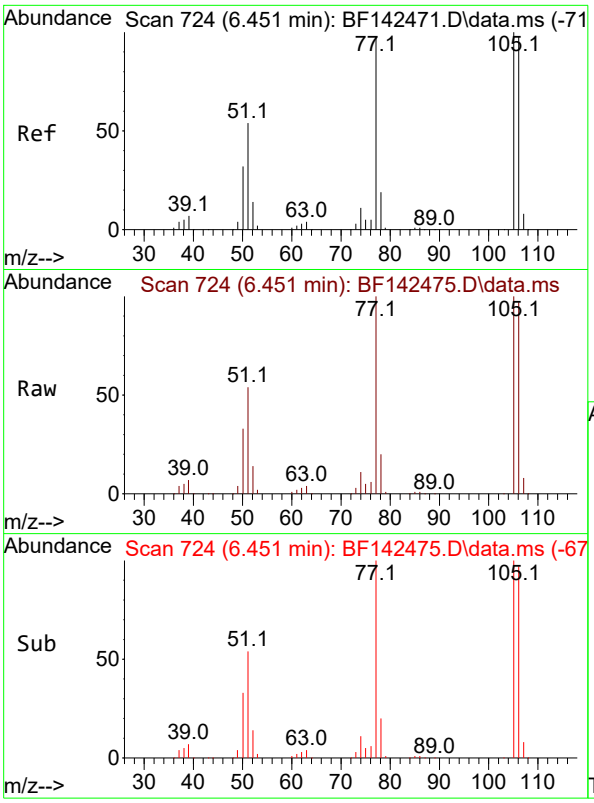


#8
2-Chlorophenol
Concen: 37.902 ng
RT: 6.681 min Scan# 763
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:128 Resp: 243599

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.6	52.6
64	48.3	25.1	65.1



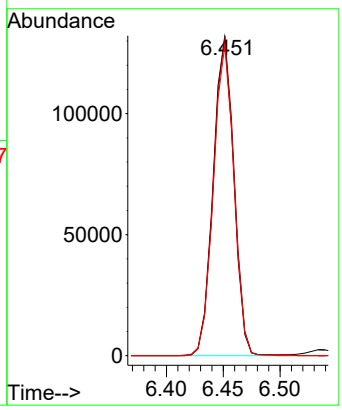


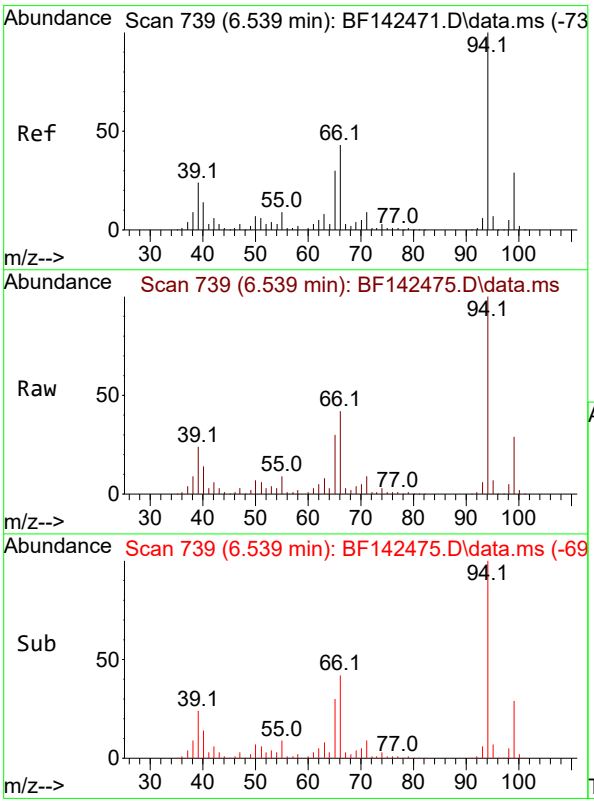
#9
Benzaldehyde
Concen: 38.726 ng
RT: 6.451 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion: 77 Resp: 165445

Ion	Ratio	Lower	Upper
77	100		
105	100.5	82.5	122.5
106	97.4	80.0	120.0

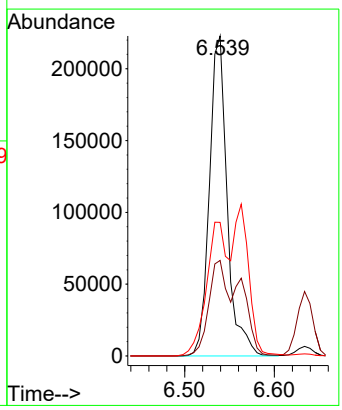


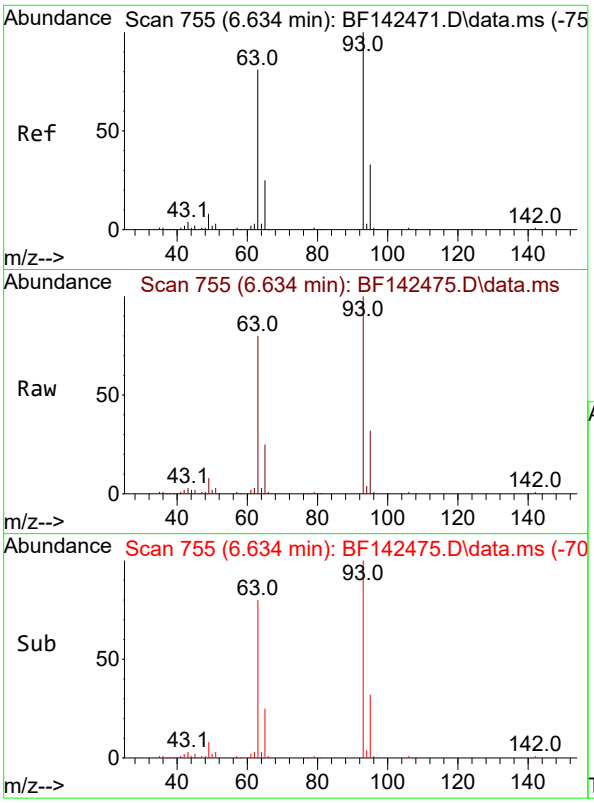


#10
Phenol
Concen: 38.362 ng
RT: 6.539 min Scan# 739
Delta R.T. -0.012 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion: 94 Resp: 306601

Ion	Ratio	Lower	Upper
94	100		
65	29.8	10.3	50.3
66	41.7	22.6	62.6



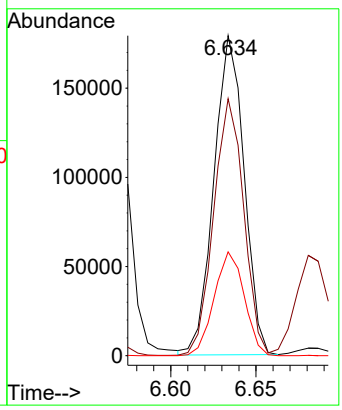


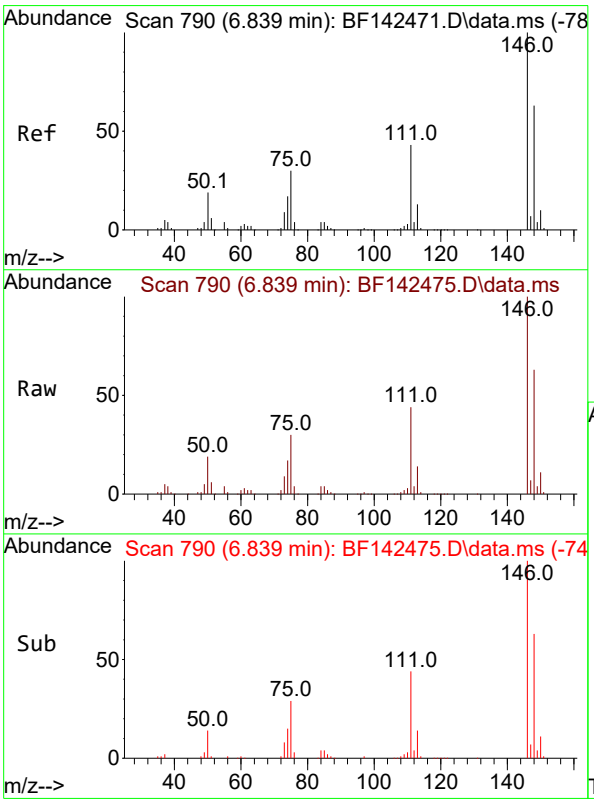
#11
bis(2-Chloroethyl)ether
Concen: 38.280 ng
RT: 6.634 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion: 93 Resp: 220228

Ion	Ratio	Lower	Upper
93	100		
63	80.3	60.2	100.2
95	32.5	12.3	52.3

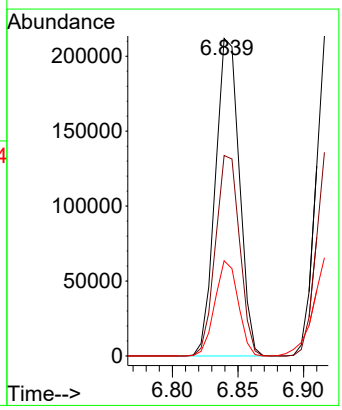


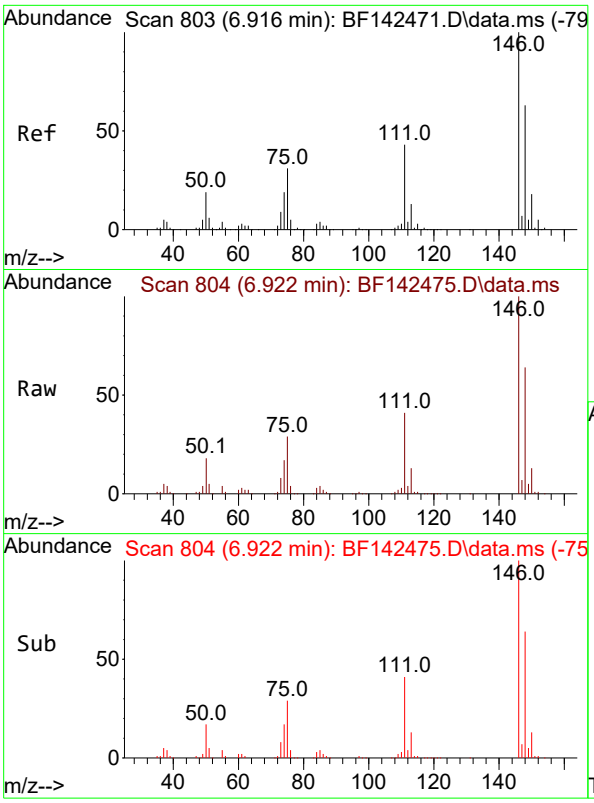


#12
1,3-Dichlorobenzene
Concen: 37.579 ng
RT: 6.839 min Scan# 790
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:146 Resp: 269504

Ion	Ratio	Lower	Upper
146	100		
148	63.1	50.6	75.8
75	30.0	23.8	35.6



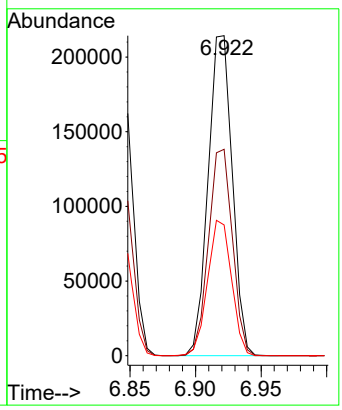


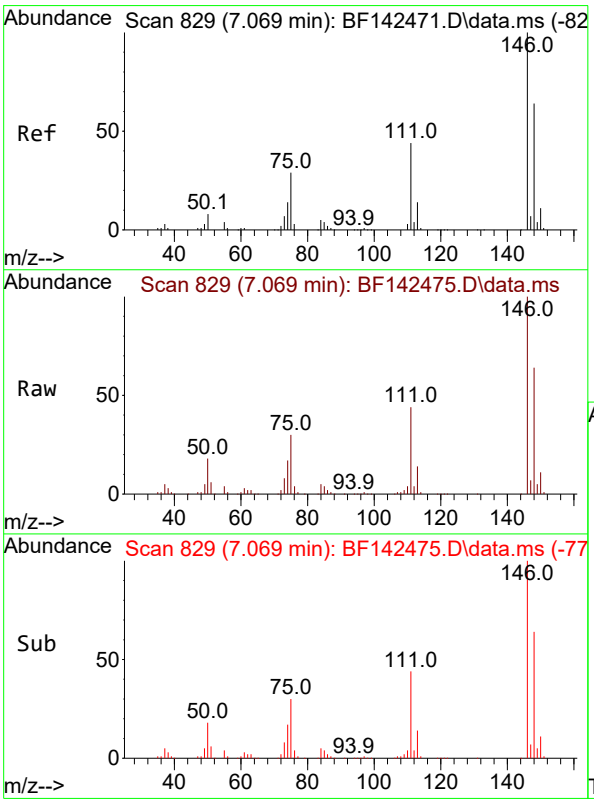
#13
1,4-Dichlorobenzene
Concen: 38.078 ng
RT: 6.922 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:146 Resp: 275076

Ion	Ratio	Lower	Upper
146	100		
148	64.5	50.4	75.6
111	40.9	34.1	51.1

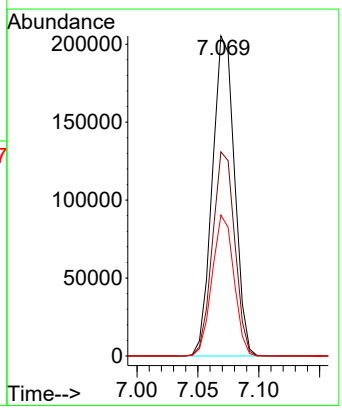


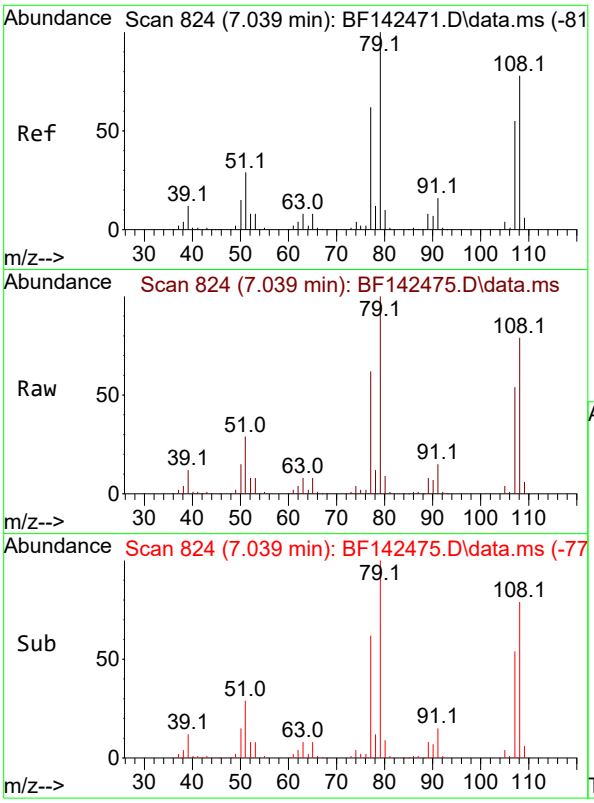


#14
1,2-Dichlorobenzene
Concen: 37.716 ng
RT: 7.069 min Scan# 829
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:146 Resp: 260709

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.0	76.4
111	44.0	35.0	52.6



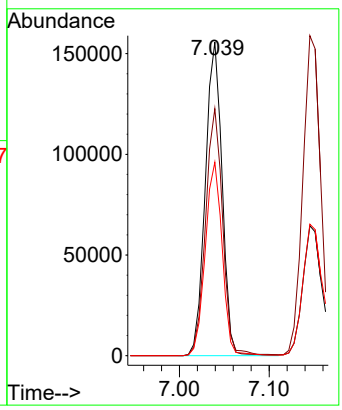


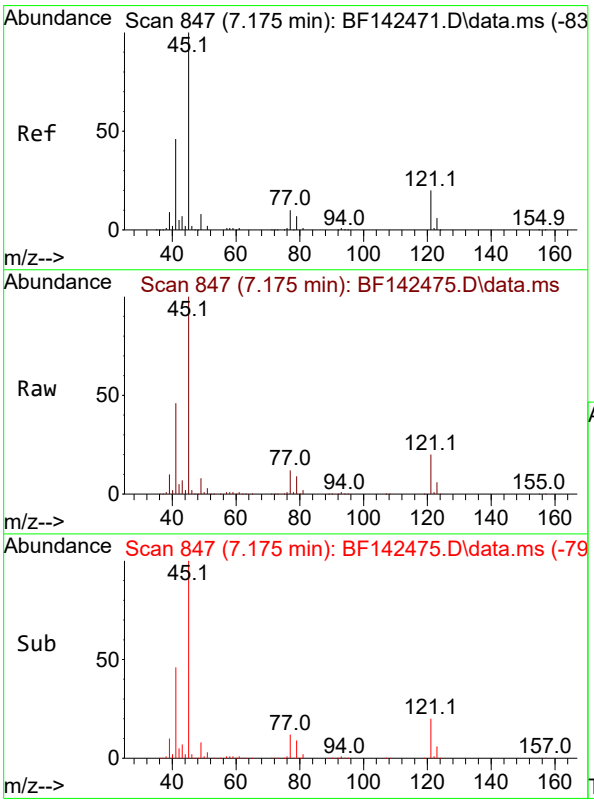
#15
Benzyl Alcohol
Concen: 38.663 ng
RT: 7.039 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion: 79 Resp: 202944

Ion	Ratio	Lower	Upper
79	100		
108	78.8	62.1	93.1
77	61.7	49.5	74.3

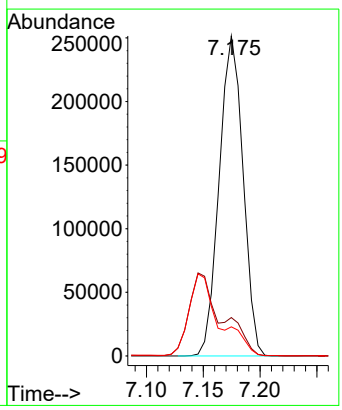


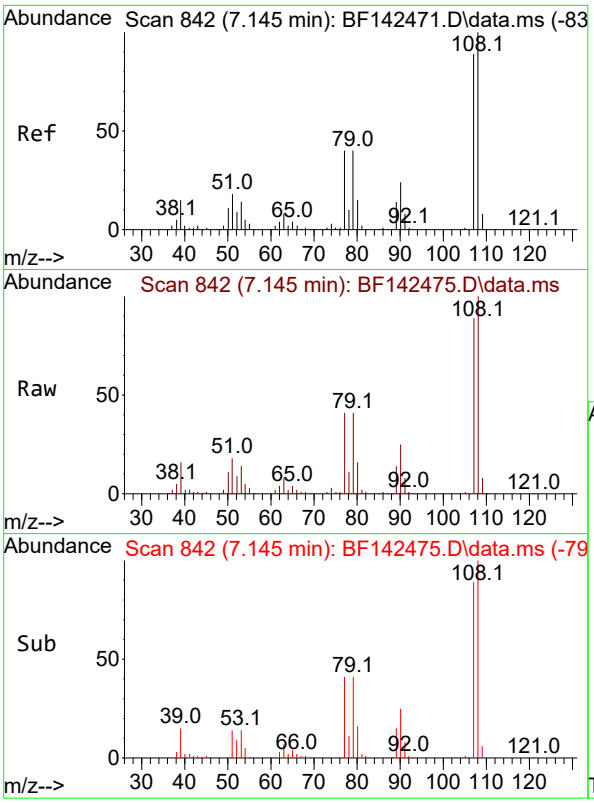


#16
2,2'-oxybis(1-Chloropropane)
Concen: 37.927 ng
RT: 7.175 min Scan# 847
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion: 45 Resp: 366430

Ion	Ratio	Lower	Upper
45	100		
77	12.0	0.0	32.0
79	9.1	0.0	29.2



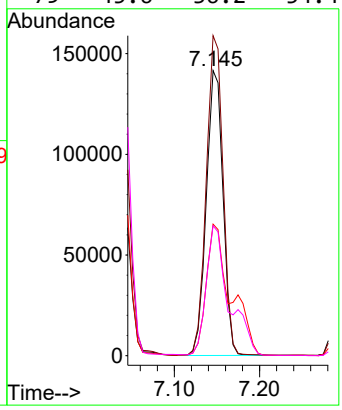


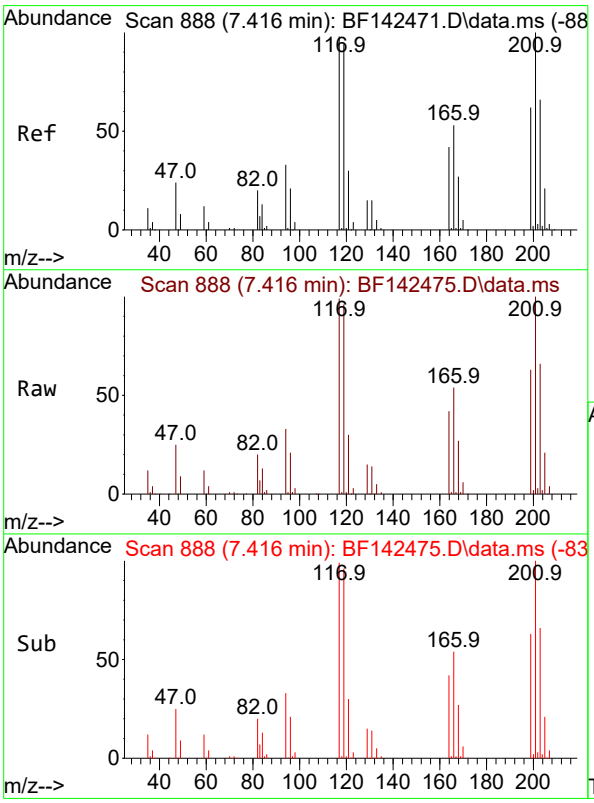
#17
2-Methylphenol
Concen: 38.500 ng
RT: 7.145 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:107 Resp: 193190

Ion	Ratio	Lower	Upper
107	100		
108	112.3	90.2	135.2
77	46.1	36.1	54.1
79	45.6	36.2	54.4

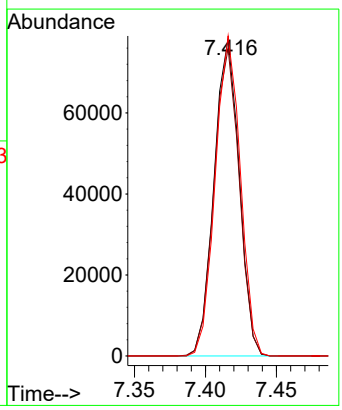


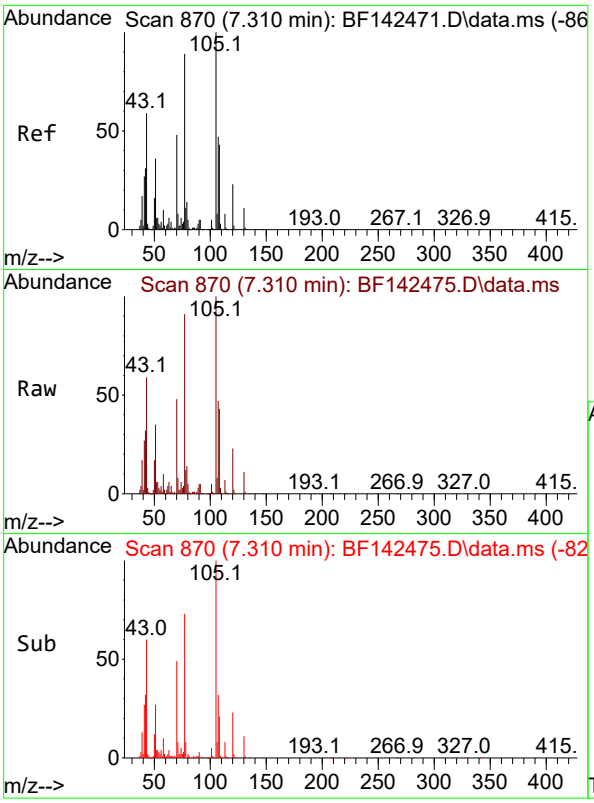


#18
Hexachloroethane
Concen: 38.137 ng
RT: 7.416 min Scan# 888
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:117 Resp: 96202

Ion	Ratio	Lower	Upper
117	100		
119	97.0	76.6	114.8
201	100.8	81.3	121.9



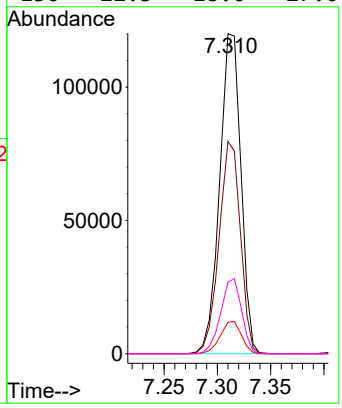


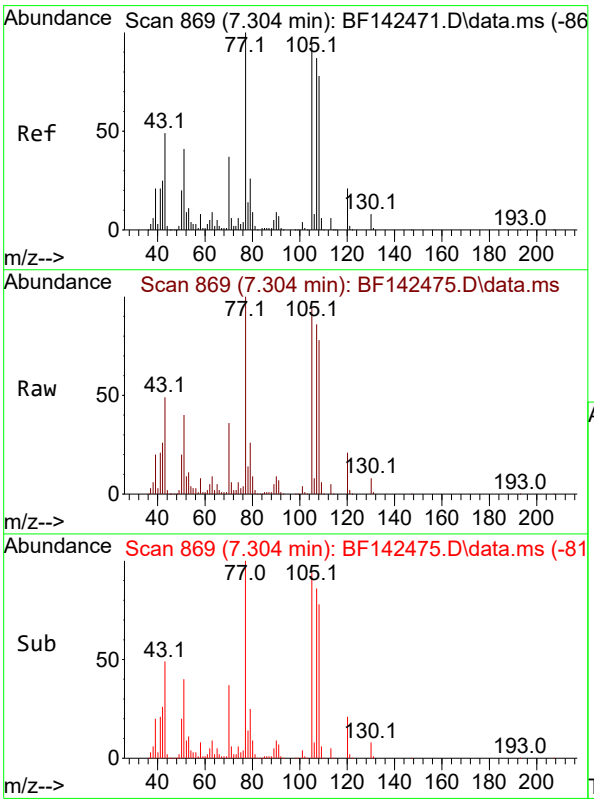
#19
n-Nitroso-di-n-propylamine
Concen: 37.833 ng
RT: 7.310 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion: 70 Resp: 166542

Ion	Ratio	Lower	Upper
70	100		
42	66.3	52.4	78.6
101	9.8	7.8	11.8
130	22.3	18.0	27.0

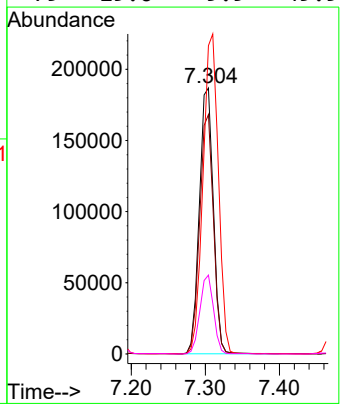


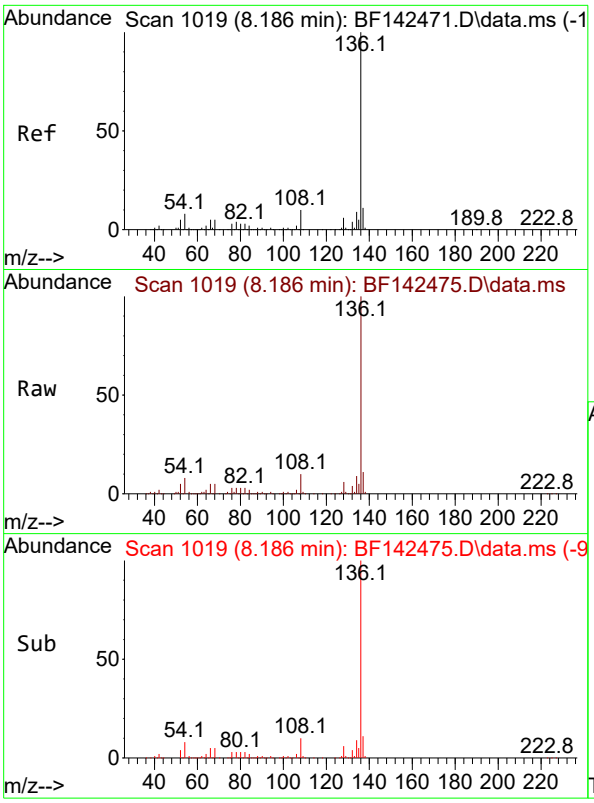


#20
3+4-Methylphenols
Concen: 38.020 ng
RT: 7.304 min Scan# 869
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:107 Resp: 244310

Ion	Ratio	Lower	Upper
107	100		
108	90.0	70.4	110.4
77	115.9	95.4	135.4
79	29.6	9.9	49.9



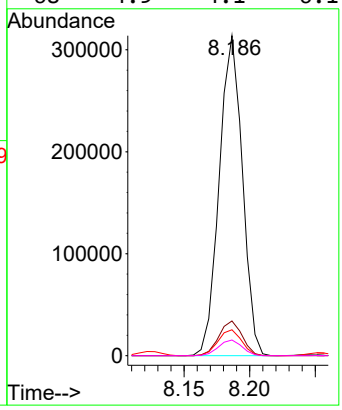


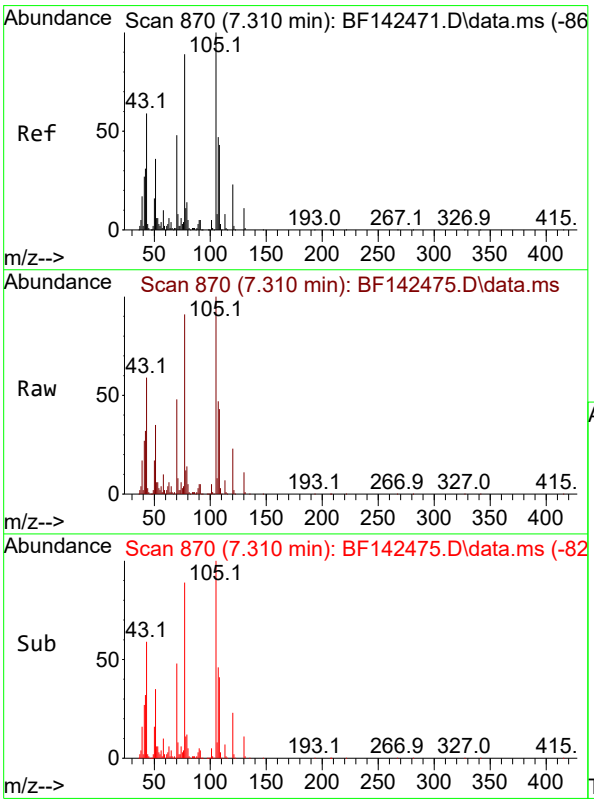
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:136 Resp: 385222

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.1	6.6	10.0
68	4.9	4.1	6.1

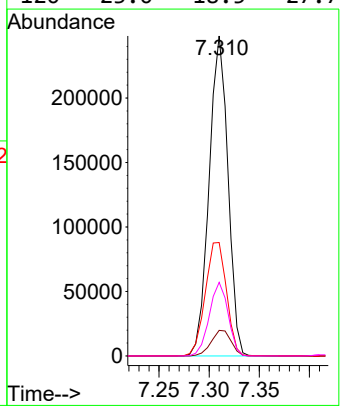


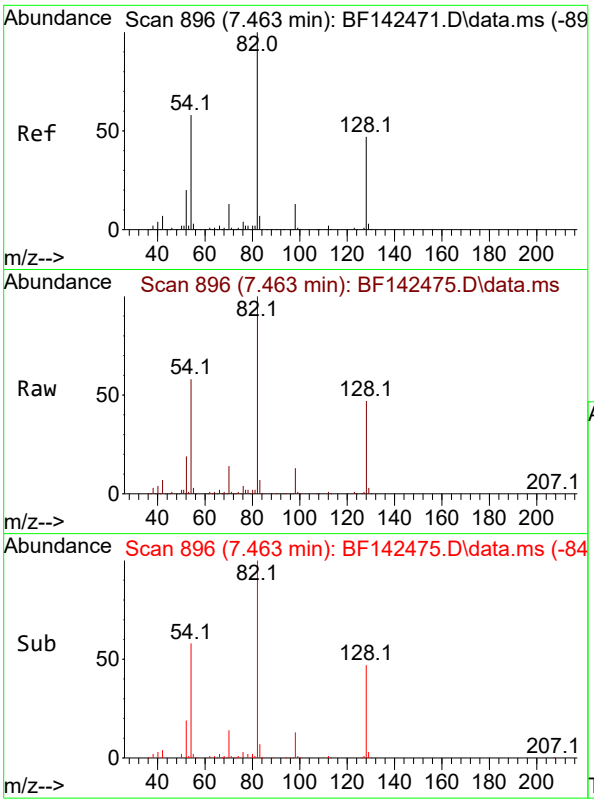


#22
Acetophenone
Concen: 38.118 ng
RT: 7.310 min Scan# 870
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:105 Resp: 325056

Ion	Ratio	Lower	Upper
105	100		
71	8.0	6.4	9.6
51	35.4	28.6	42.8
120	23.0	18.5	27.7



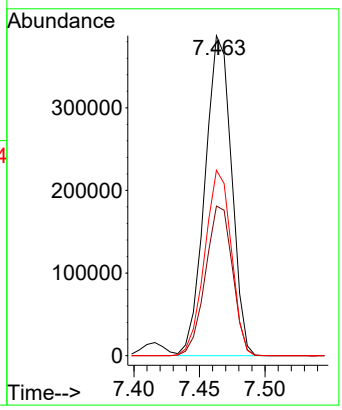


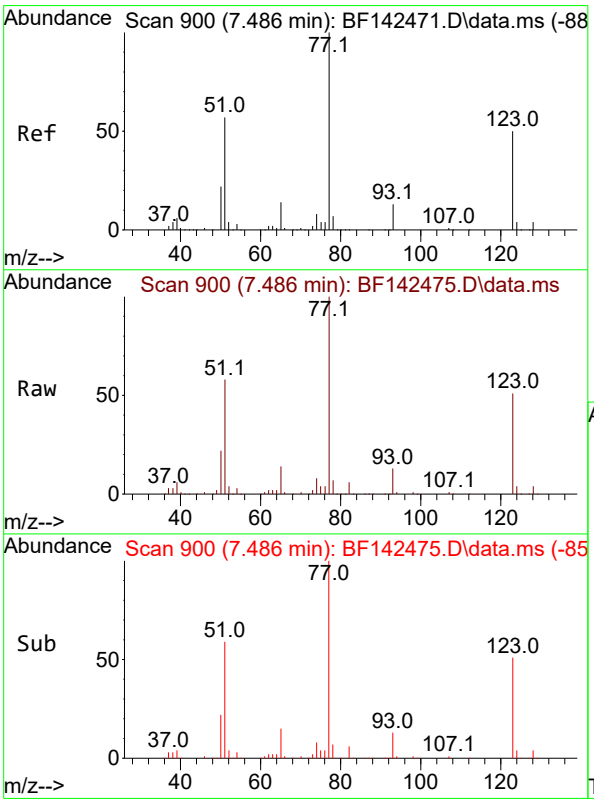
#23
Nitrobenzene-d5
Concen: 77.283 ng
RT: 7.463 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion: 82 Resp: 545967

Ion	Ratio	Lower	Upper
82	100		
128	46.7	37.4	56.2
54	58.0	46.6	70.0

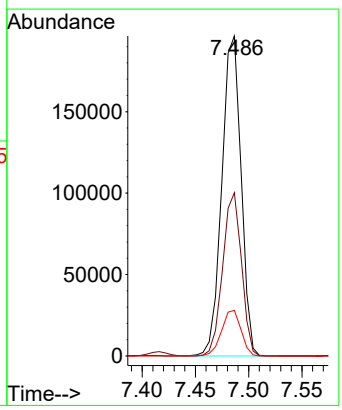


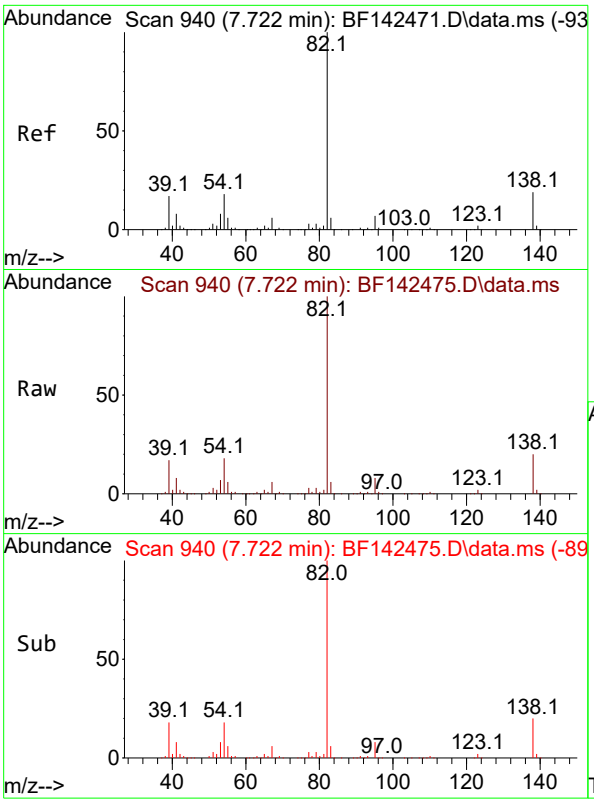


#24
Nitrobenzene
Concen: 38.737 ng
RT: 7.486 min Scan# 900
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion: 77 Resp: 246818

Ion	Ratio	Lower	Upper
77	100		
123	51.0	40.6	61.0
65	14.3	11.4	17.2



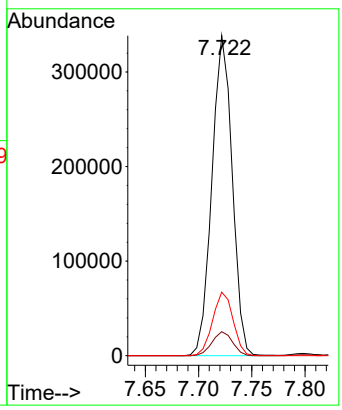


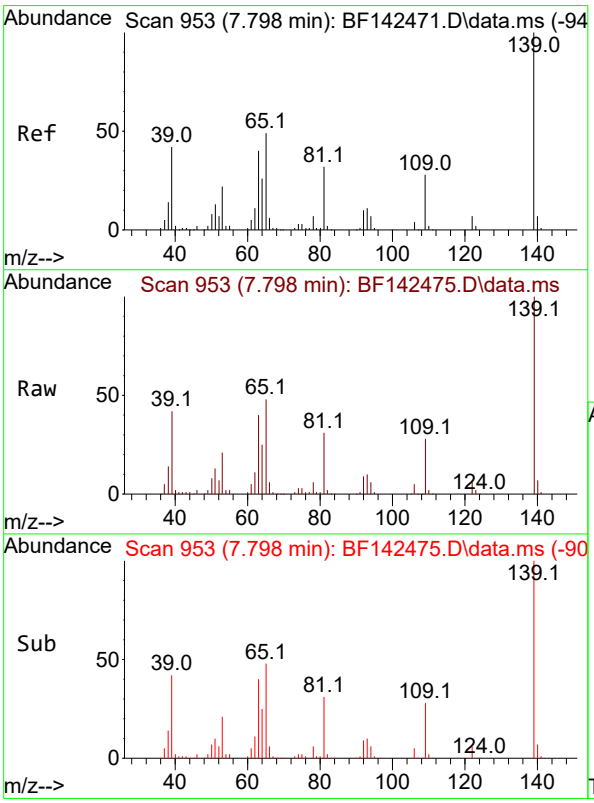
#25
Isophorone
Concen: 37.906 ng
RT: 7.722 min Scan# 94
Delta R.T. -0.012 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion: 82 Resp: 447723

Ion	Ratio	Lower	Upper
82	100		
95	7.5	6.0	9.0
138	19.9	15.5	23.3

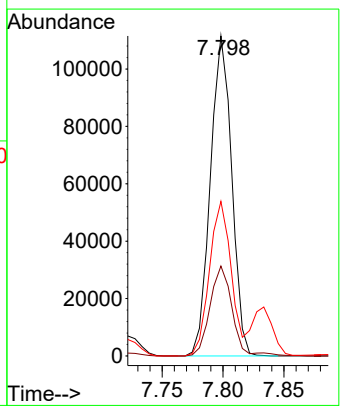


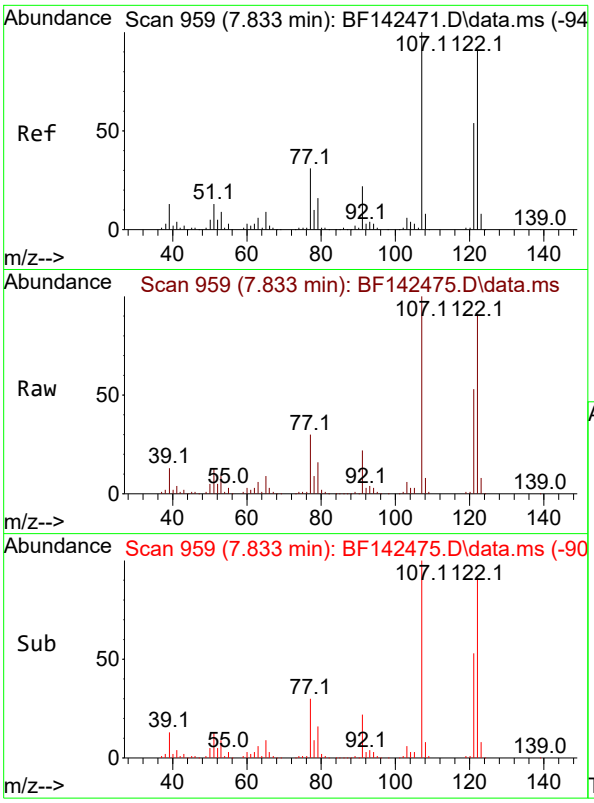


#26
2-Nitrophenol
Concen: 39.958 ng
RT: 7.798 min Scan# 953
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:139 Resp: 136039

Ion	Ratio	Lower	Upper
139	100		
109	28.1	22.6	33.8
65	48.3	39.4	59.0



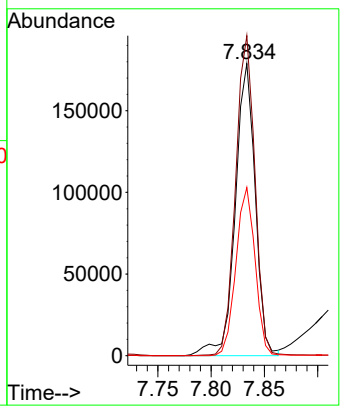


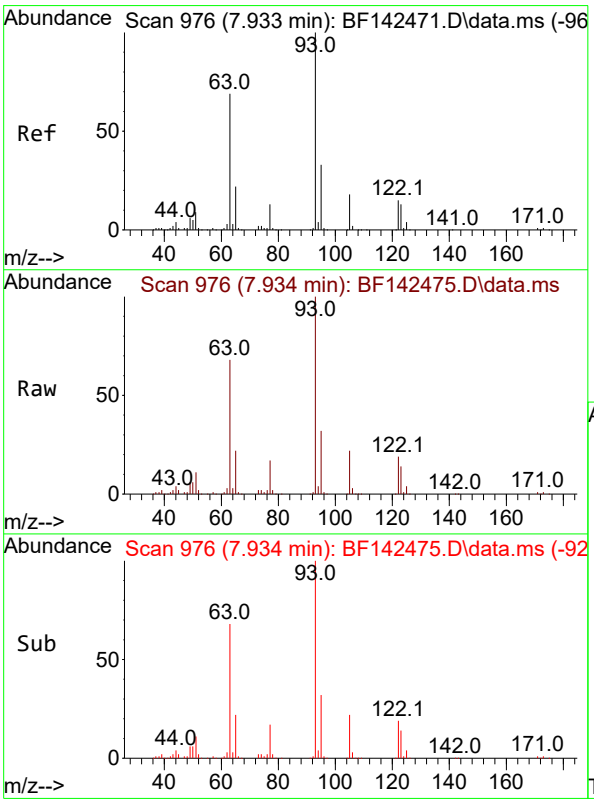
#27
2,4-Dimethylphenol
Concen: 38.953 ng
RT: 7.833 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:122 Resp: 233871

Ion	Ratio	Lower	Upper
122	100		
107	109.5	88.1	132.1
121	57.5	47.3	70.9

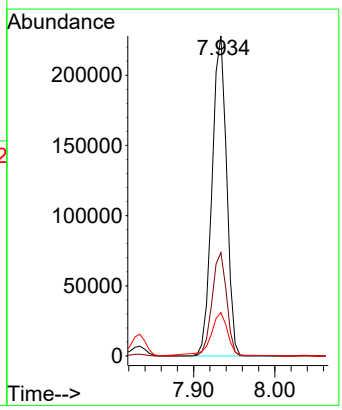


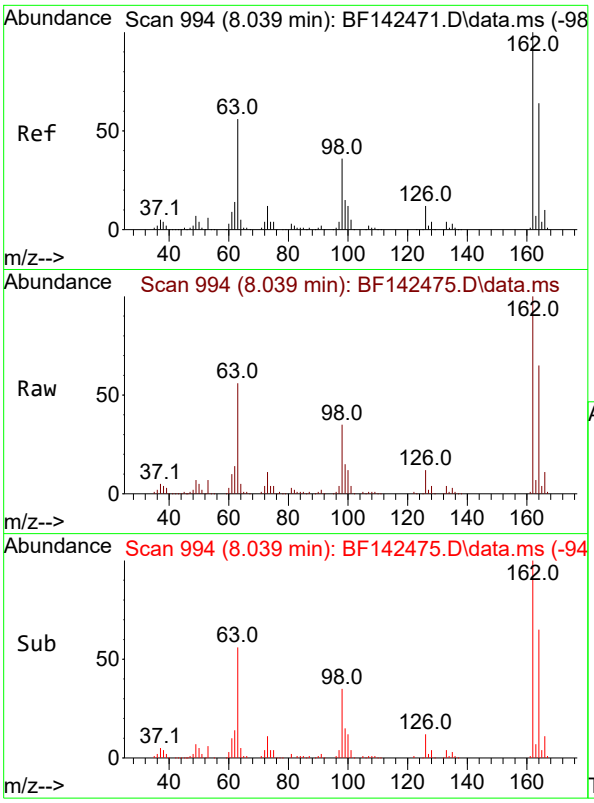


#28
bis(2-Chloroethoxy)methane
Concen: 38.407 ng
RT: 7.934 min Scan# 976
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion: 93 Resp: 283379

Ion	Ratio	Lower	Upper
93	100		
95	32.3	26.4	39.6
123	13.5	10.6	15.8



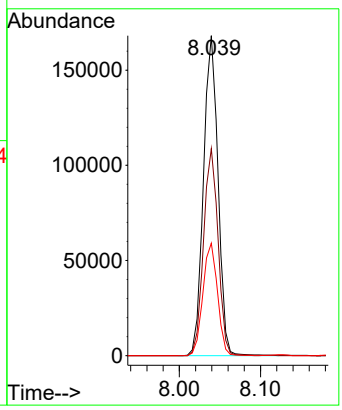


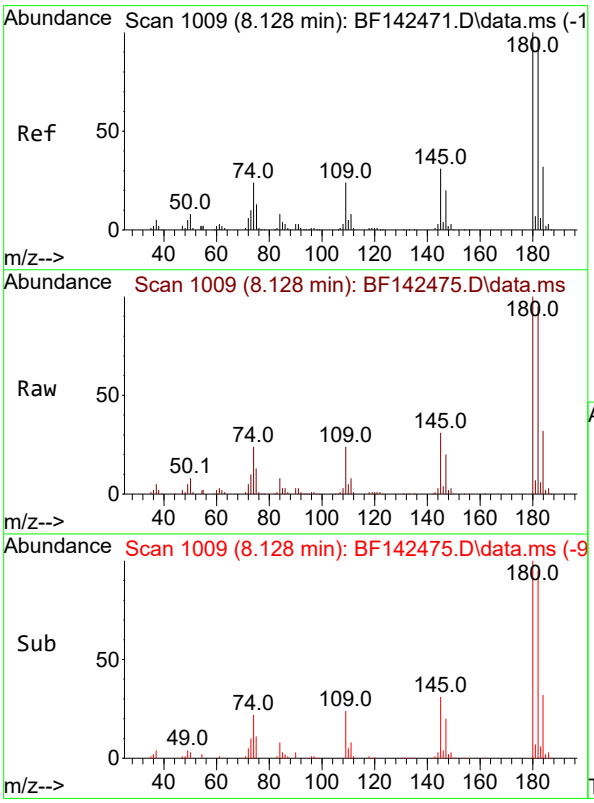
#29
2,4-Dichlorophenol
Concen: 38.285 ng
RT: 8.039 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:162 Resp: 209040

Ion	Ratio	Lower	Upper
162	100		
164	64.7	43.7	83.7
98	35.1	15.5	55.5

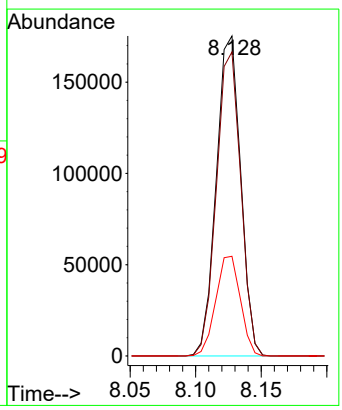


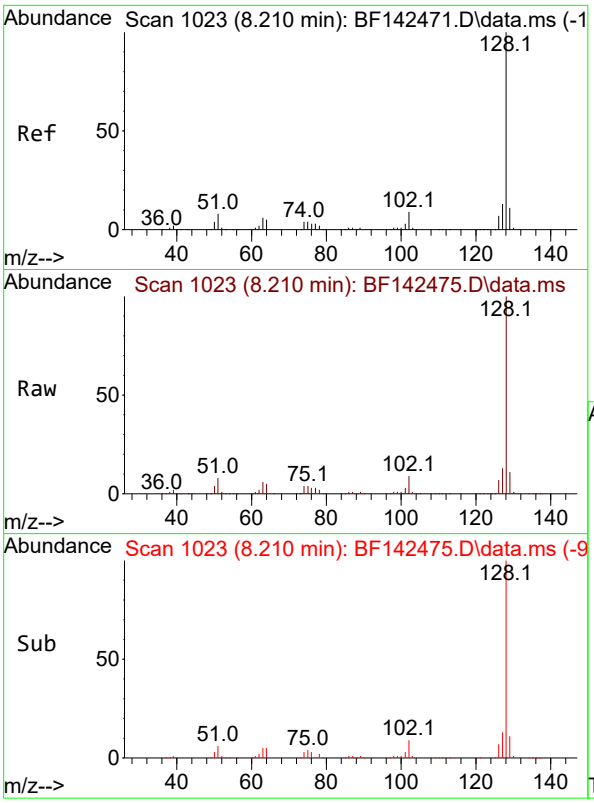


#30
1,2,4-Trichlorobenzene
Concen: 38.187 ng
RT: 8.128 min Scan# 1009
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:180 Resp: 226285

Ion	Ratio	Lower	Upper
180	100		
182	95.0	78.0	117.0
145	31.2	25.0	37.6



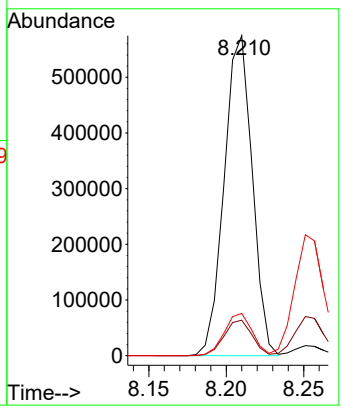


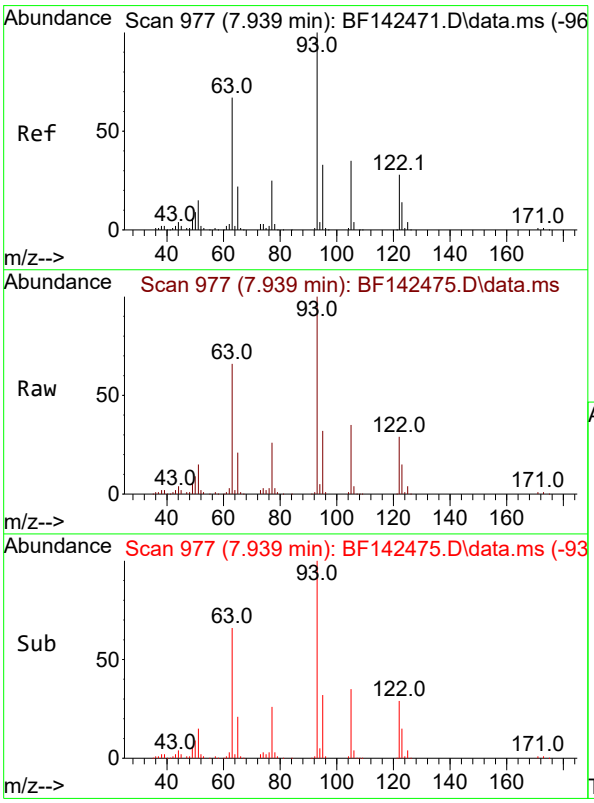
#31
Naphthalene
Concen: 38.112 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:128 Resp: 722913

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.2	10.5	15.7

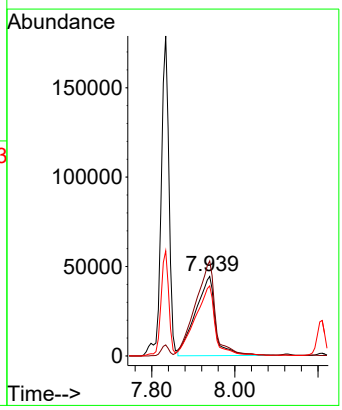


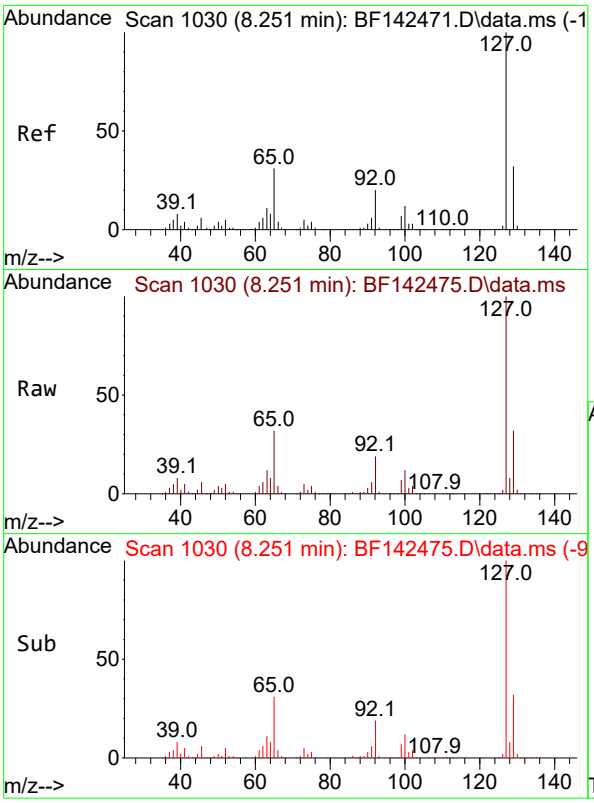


#32
Benzoic acid
Concen: 40.490 ng
RT: 7.939 min Scan# 977
Delta R.T. -0.036 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:122 Resp: 147981

Ion	Ratio	Lower	Upper
122	100		
105	119.5	101.7	141.7
77	88.1	69.5	109.5



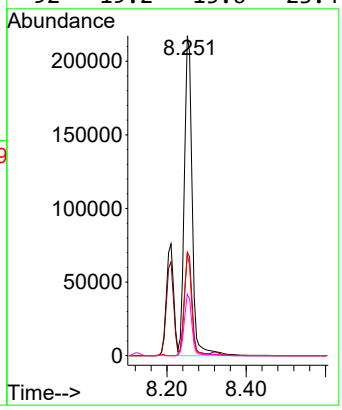


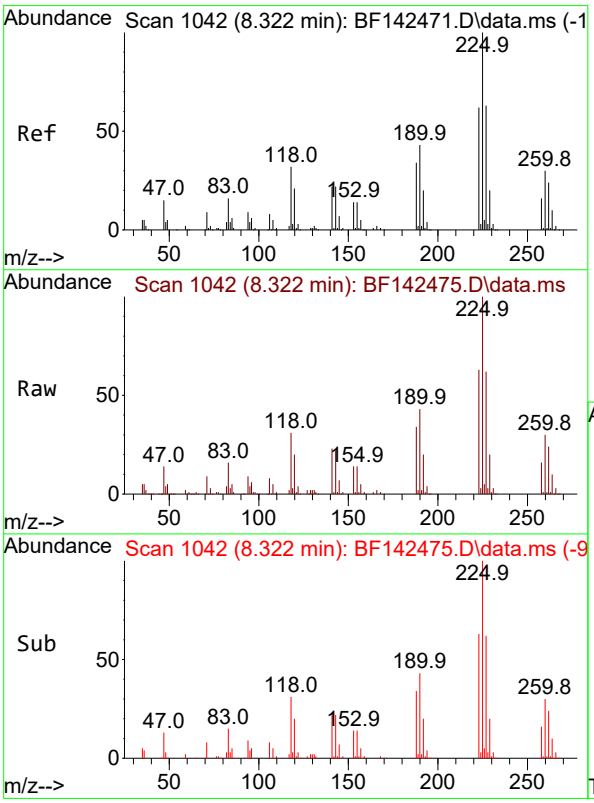
#33
4-Chloroaniline
Concen: 38.962 ng
RT: 8.251 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:127 Resp: 299462

Ion	Ratio	Lower	Upper
127	100		
129	32.4	26.1	39.1
65	31.6	24.9	37.3
92	19.2	15.6	23.4

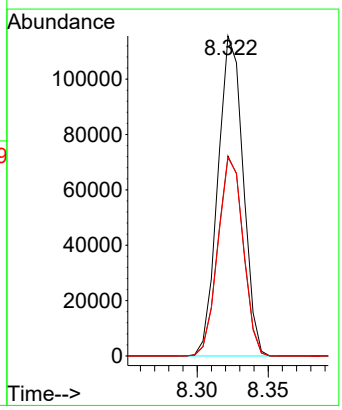


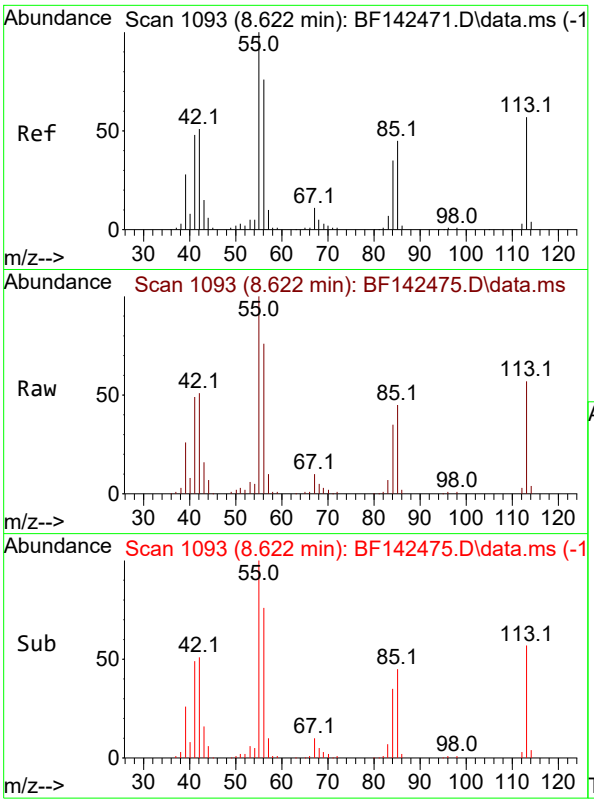


#34
Hexachlorobutadiene
Concen: 38.512 ng
RT: 8.322 min Scan# 1042
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:225 Resp: 142496

Ion	Ratio	Lower	Upper
225	100		
223	62.5	49.7	74.5
227	62.0	50.3	75.5



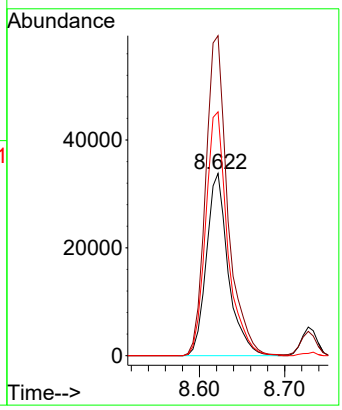


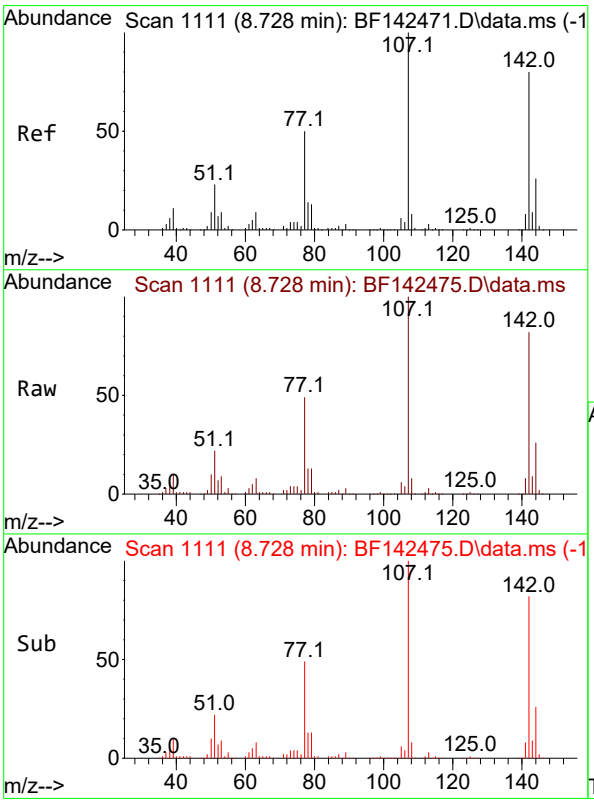
#35
Caprolactam
Concen: 39.162 ng
RT: 8.622 min Scan# 1
Delta R.T. -0.023 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:113 Resp: 60055

Ion	Ratio	Lower	Upper
113	100		
55	175.7	154.7	194.7
56	133.9	113.2	153.2

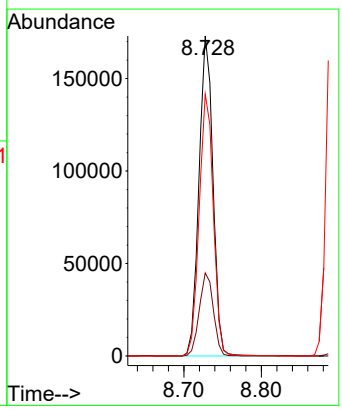


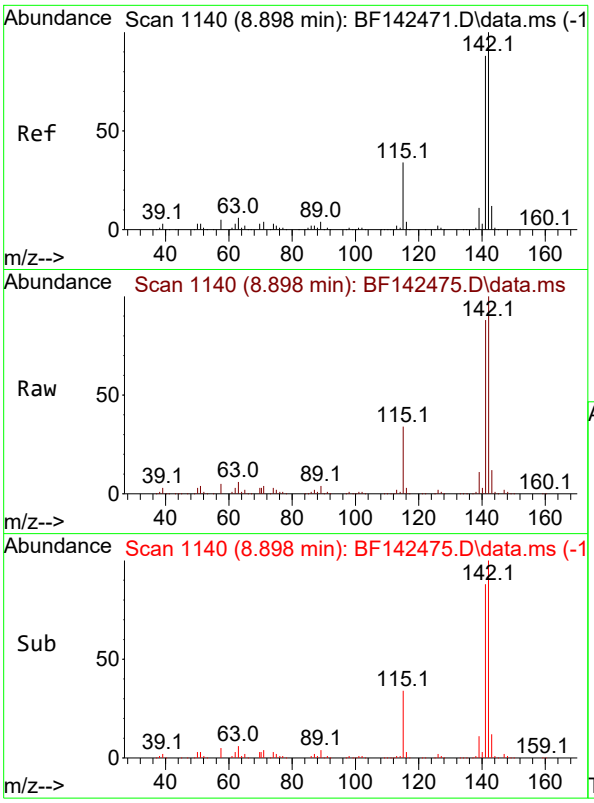


#36
4-Chloro-3-methylphenol
Concen: 38.654 ng
RT: 8.728 min Scan# 1111
Delta R.T. -0.012 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:107 Resp: 216299

Ion	Ratio	Lower	Upper
107	100		
144	25.9	20.9	31.3
142	81.8	64.2	96.2



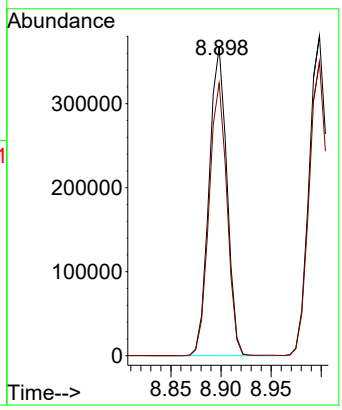


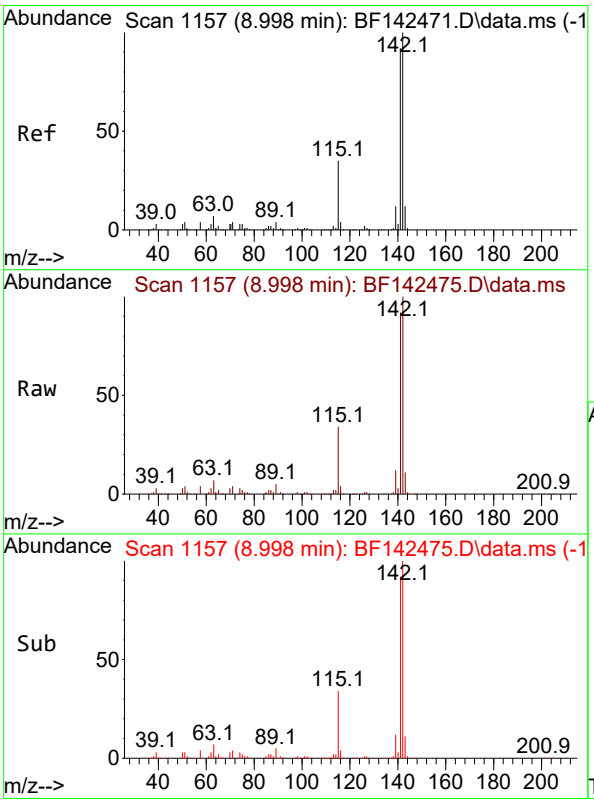
#37
2-Methylnaphthalene
Concen: 38.062 ng
RT: 8.898 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:142 Resp: 454200

Ion	Ratio	Lower	Upper
142	100		
141	88.3	70.7	106.1

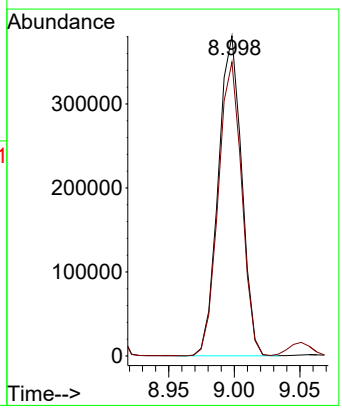


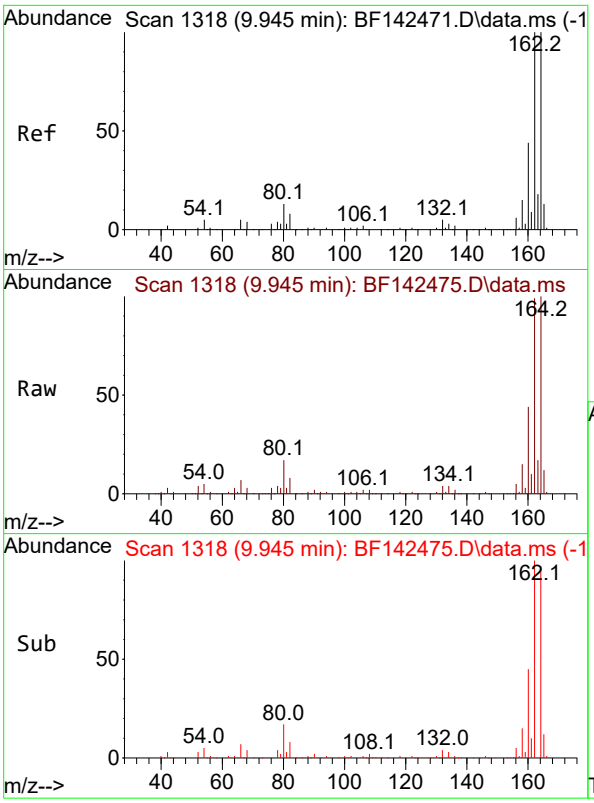


#38
1-Methylnaphthalene
Concen: 38.229 ng
RT: 8.998 min Scan# 1157
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:142 Resp: 471880

Ion	Ratio	Lower	Upper
142	100		
141	91.9	73.4	110.2



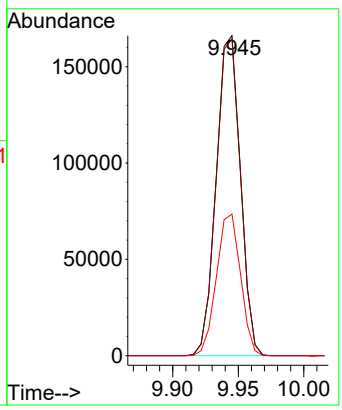


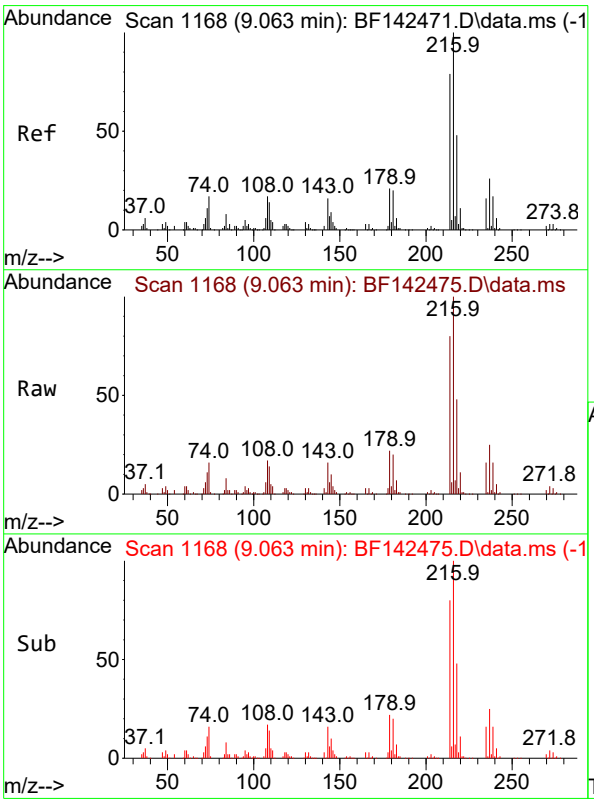
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:164 Resp: 213164

Ion	Ratio	Lower	Upper
164	100		
162	98.9	80.2	120.4
160	44.3	35.6	53.4

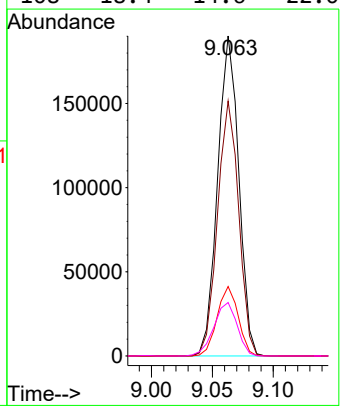


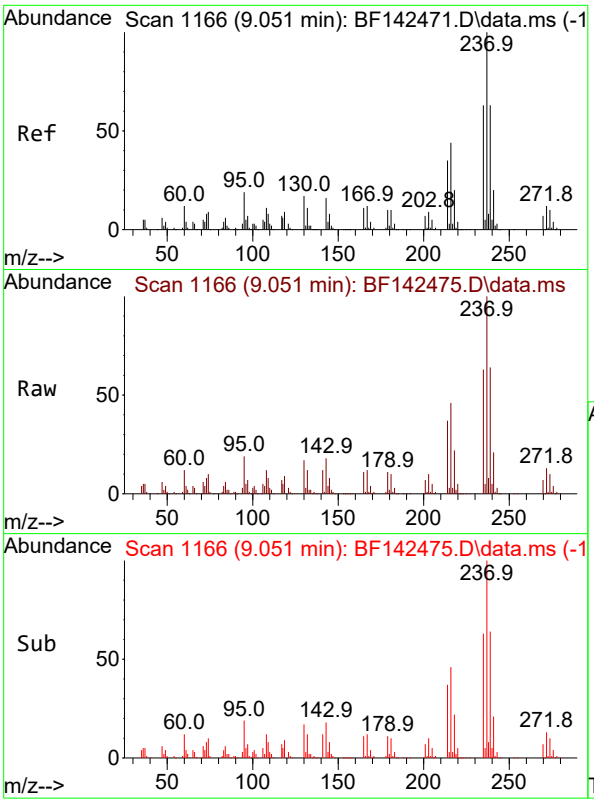


#40
1,2,4,5-Tetrachlorobenzene
Concen: 37.508 ng
RT: 9.063 min Scan# 1168
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:216 Resp: 229514

Ion	Ratio	Lower	Upper
216	100		
214	79.6	62.9	94.3
179	21.6	16.9	25.3
108	18.4	14.6	22.0



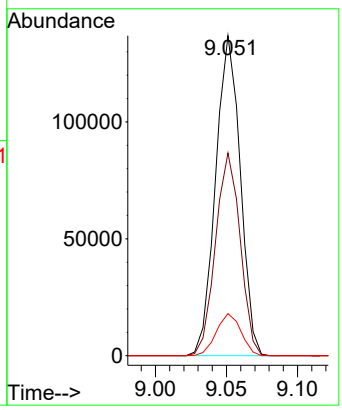


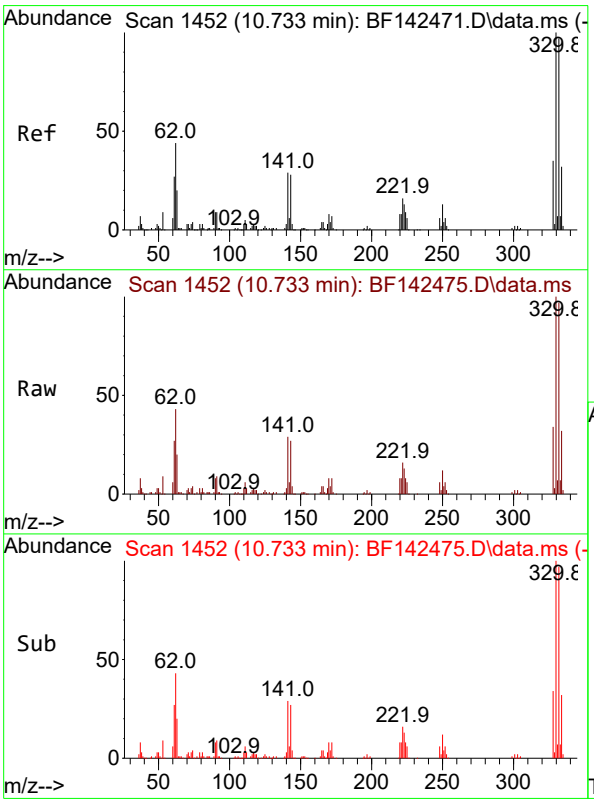
#41
Hexachlorocyclopentadiene
Concen: 39.991 ng
RT: 9.051 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:237 Resp: 165077

Ion	Ratio	Lower	Upper
237	100		
235	63.4	43.3	83.3
272	13.1	0.0	32.4

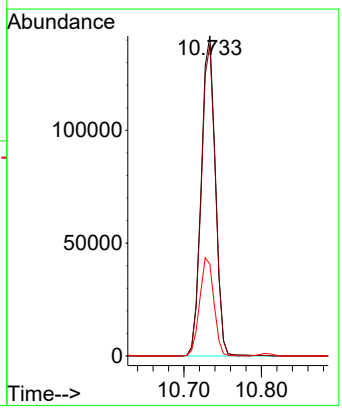


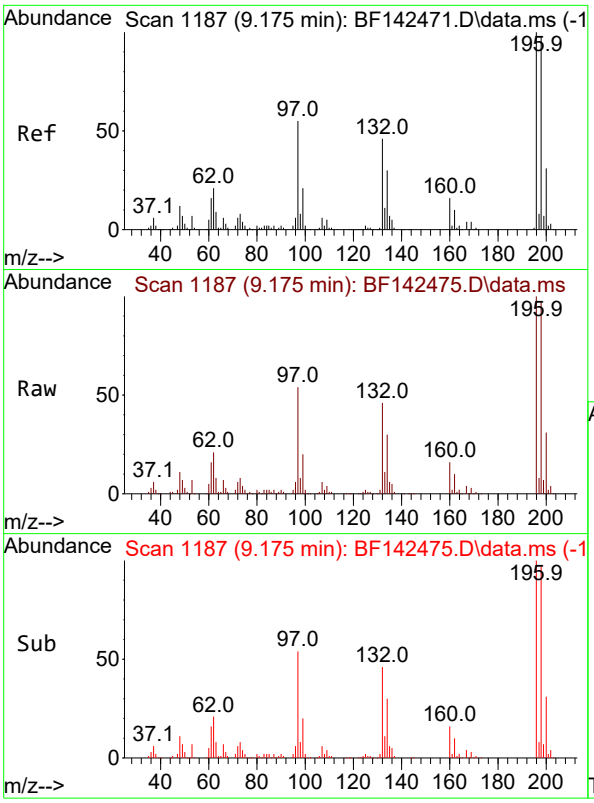


#42
2,4,6-Tribromophenol
Concen: 75.790 ng
RT: 10.733 min Scan# 1452
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:330 Resp: 179309

Ion	Ratio	Lower	Upper
330	100		
332	97.2	77.6	116.4
141	31.0	24.6	36.8



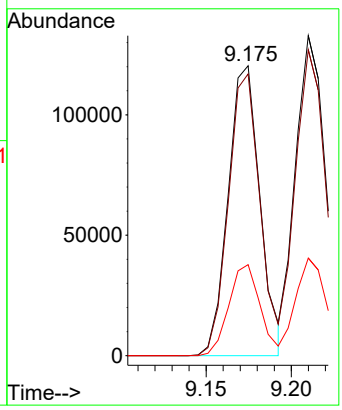


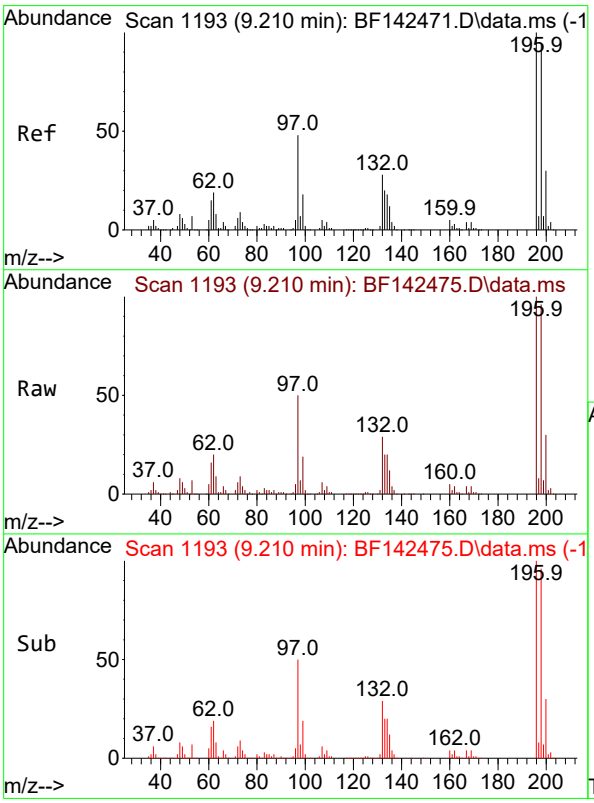
#43
2,4,6-Trichlorophenol
Concen: 37.954 ng
RT: 9.175 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:196 Resp: 156603

Ion	Ratio	Lower	Upper
196	100		
198	97.1	78.8	118.2
200	31.4	24.9	37.3

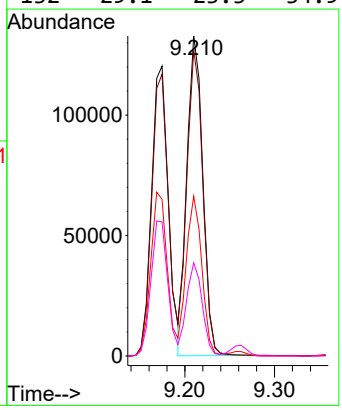


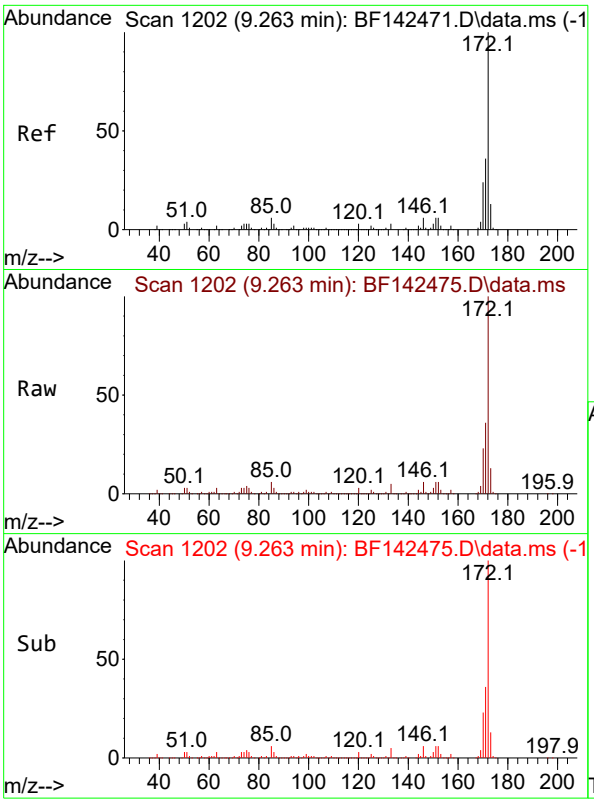


#44
2,4,5-Trichlorophenol
Concen: 37.766 ng
RT: 9.210 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:196 Resp: 164342

Ion	Ratio	Lower	Upper
196	100		
198	95.6	75.5	113.3
97	49.9	39.3	58.9
132	29.1	23.3	34.9



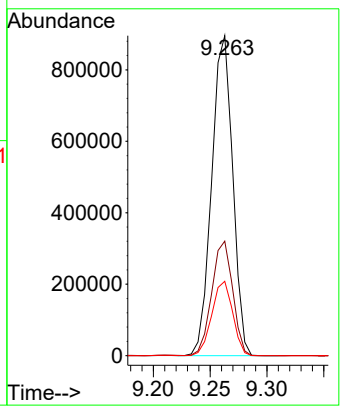


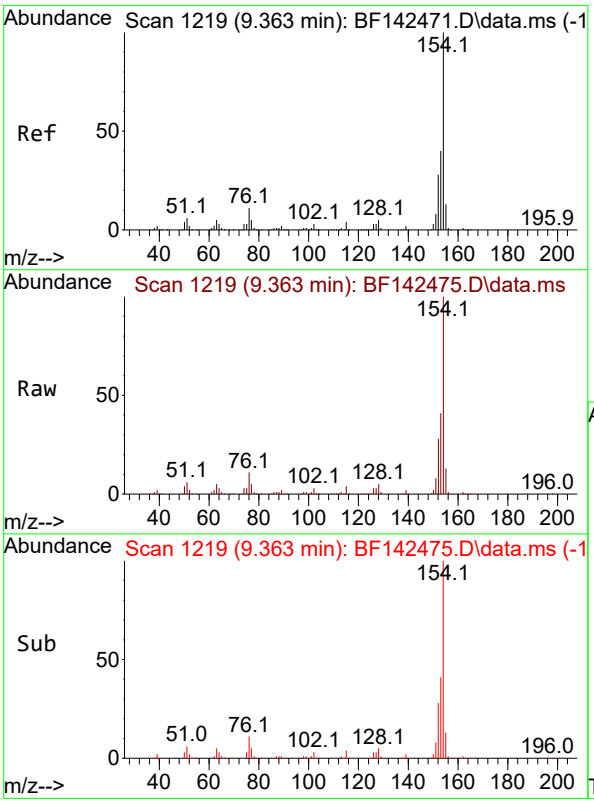
#45
2-Fluorobiphenyl
Concen: 72.557 ng
RT: 9.263 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:172 Resp: 1152622

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	42.8
170	23.3	18.9	28.3

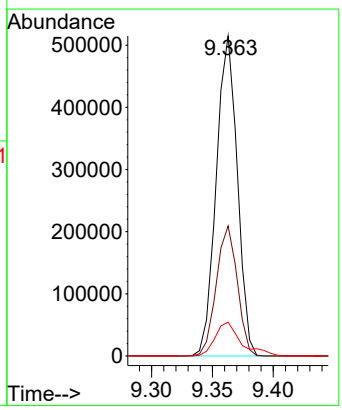


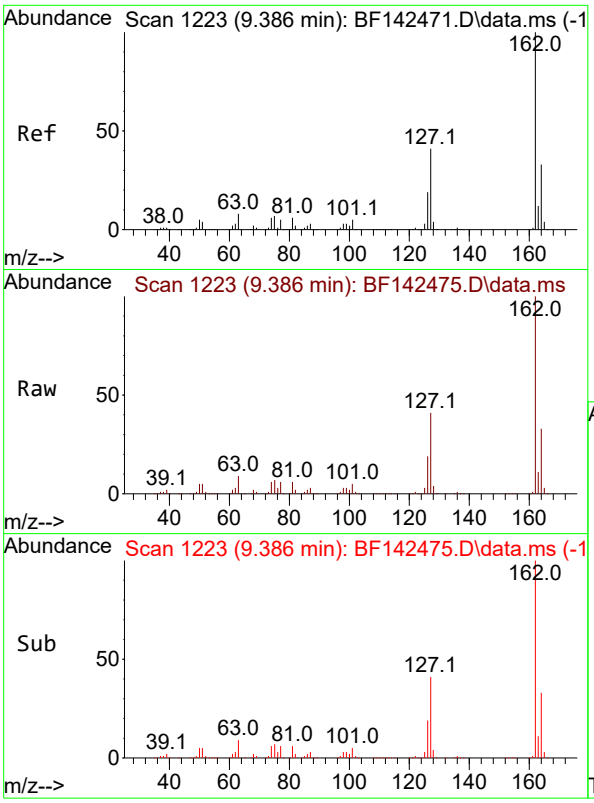


#46
1,1'-Biphenyl
Concen: 37.487 ng
RT: 9.363 min Scan# 1219
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:154 Resp: 619947

Ion	Ratio	Lower	Upper
154	100		
153	40.6	20.4	60.4
76	10.6	0.0	30.8



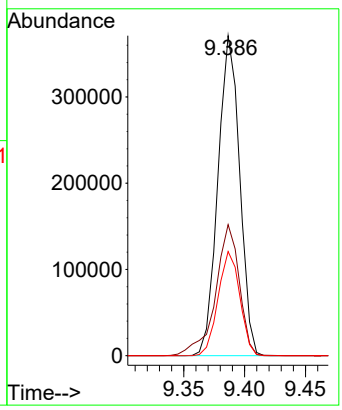


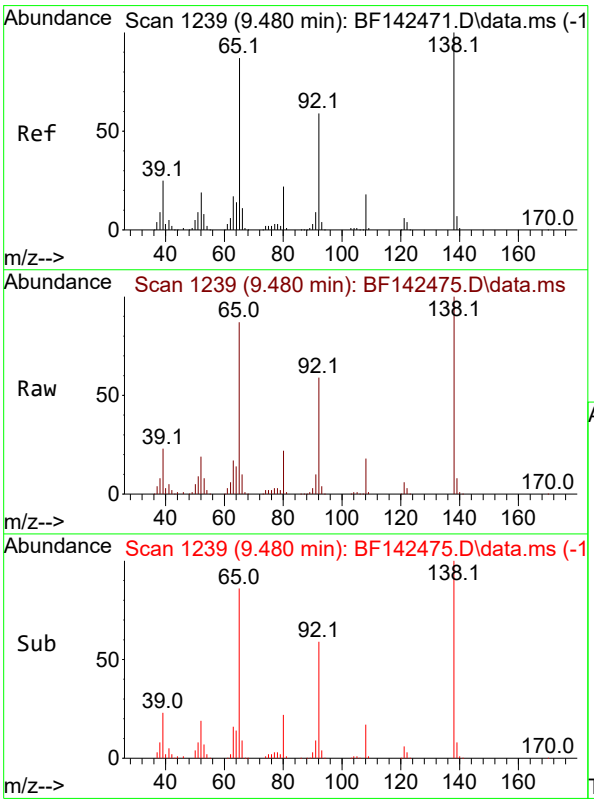
#47
2-Chloronaphthalene
Concen: 37.763 ng
RT: 9.386 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:162 Resp: 461414

Ion	Ratio	Lower	Upper
162	100		
127	40.9	33.5	50.3
164	32.5	26.1	39.1

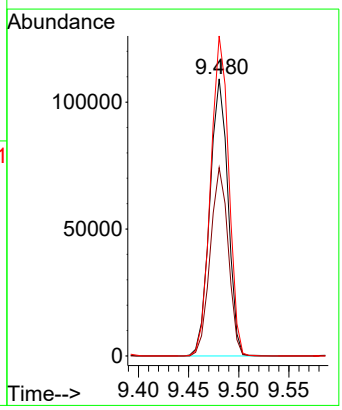


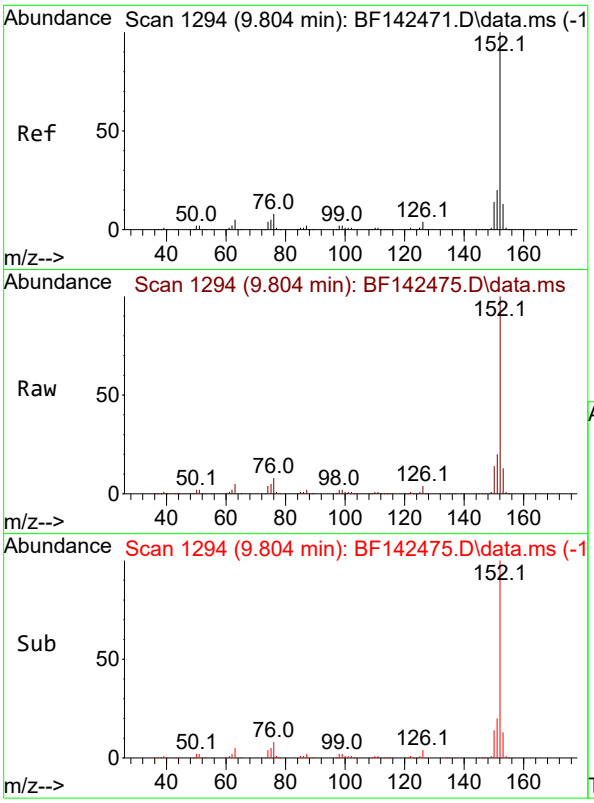


#48
2-Nitroaniline
Concen: 38.867 ng
RT: 9.480 min Scan# 1239
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion: 65 Resp: 137268

Ion	Ratio	Lower	Upper
65	100		
92	68.0	54.4	81.6
138	115.5	91.4	137.2



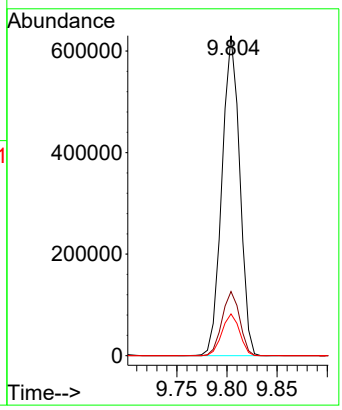


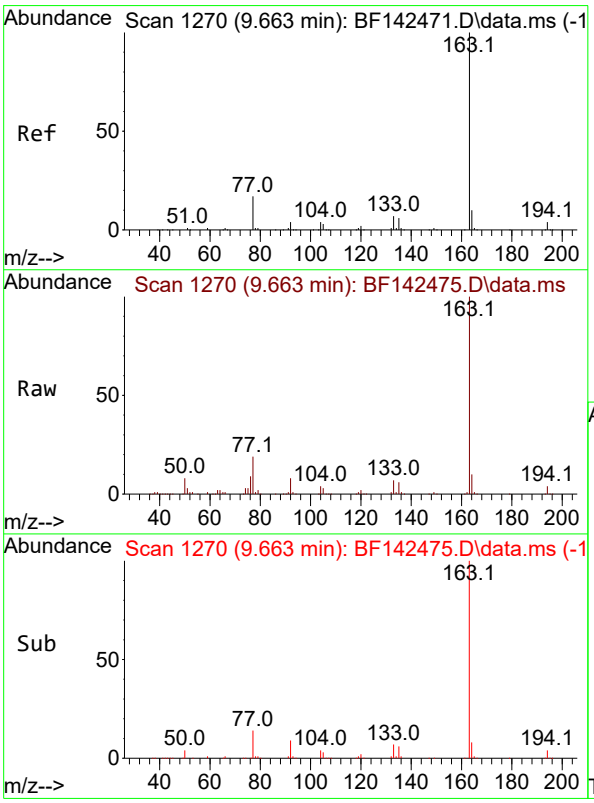
#49
Acenaphthylene
Concen: 37.630 ng
RT: 9.804 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:152 Resp: 776377

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.8
153	13.0	10.6	15.8

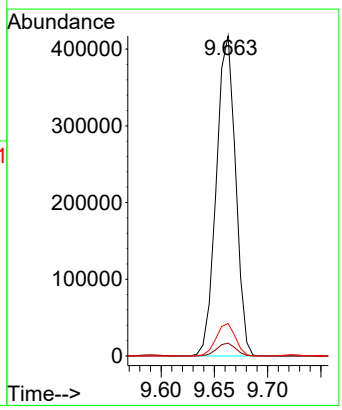


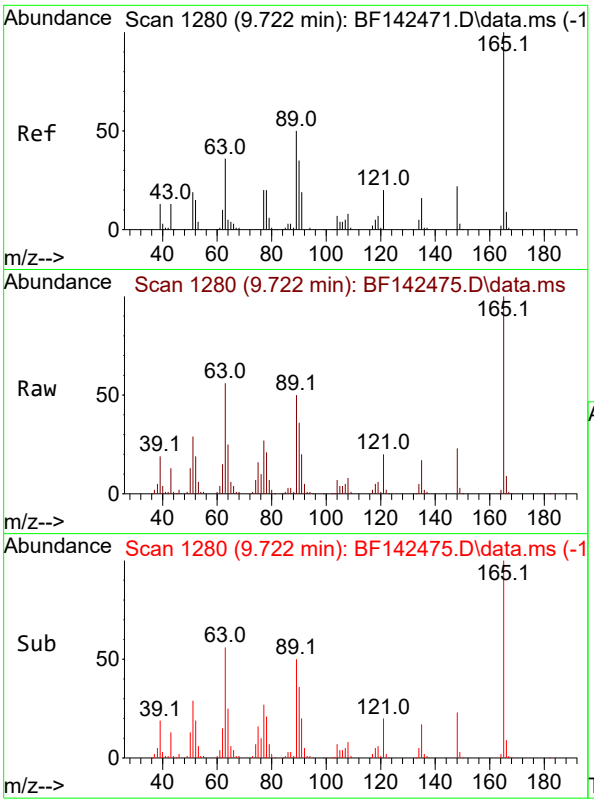


#50
Dimethylphthalate
Concen: 37.184 ng
RT: 9.663 min Scan# 1270
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:163 Resp: 523004

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.3	4.9
164	10.2	8.2	12.4



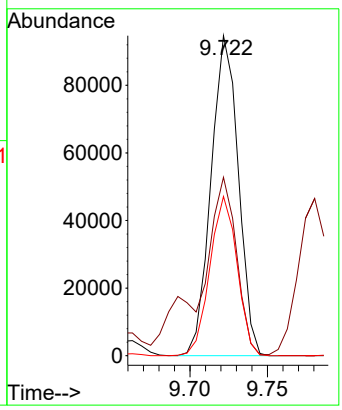


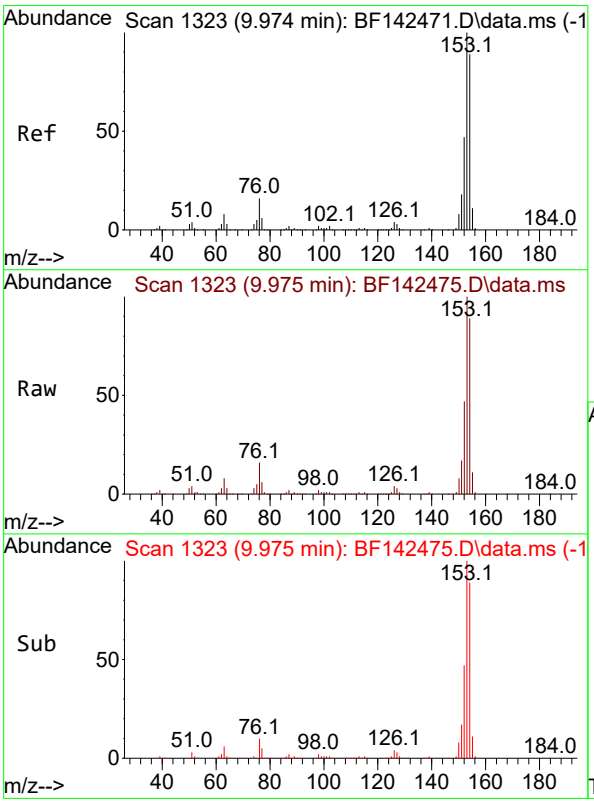
#51
2,6-Dinitrotoluene
Concen: 38.191 ng
RT: 9.722 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:165 Resp: 115938

Ion	Ratio	Lower	Upper
165	100		
63	55.8	42.9	64.3
89	49.8	40.2	60.4

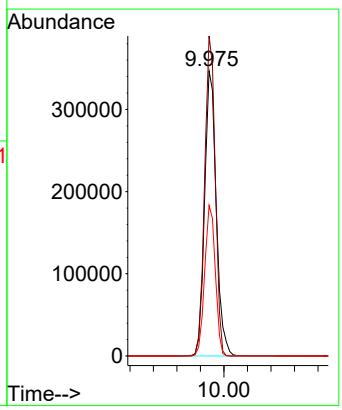


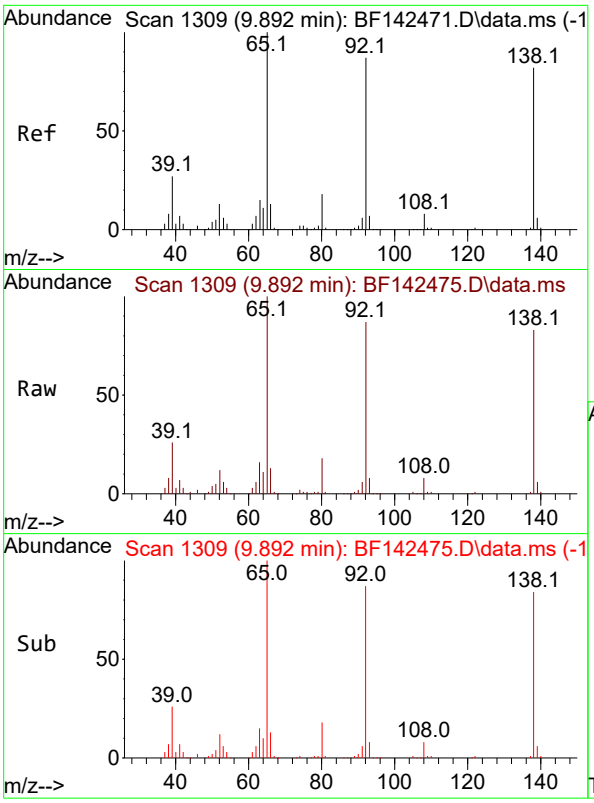


#52
Acenaphthene
Concen: 37.877 ng
RT: 9.975 min Scan# 1323
Delta R.T. -0.005 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:154 Resp: 477197

Ion	Ratio	Lower	Upper
154	100		
153	112.2	90.0	135.0
152	52.8	42.6	64.0



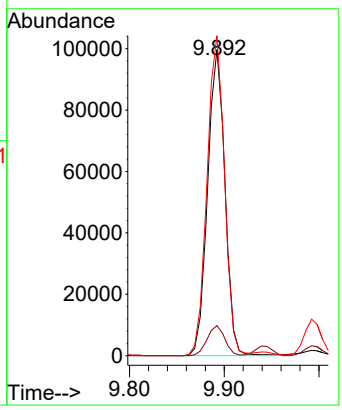


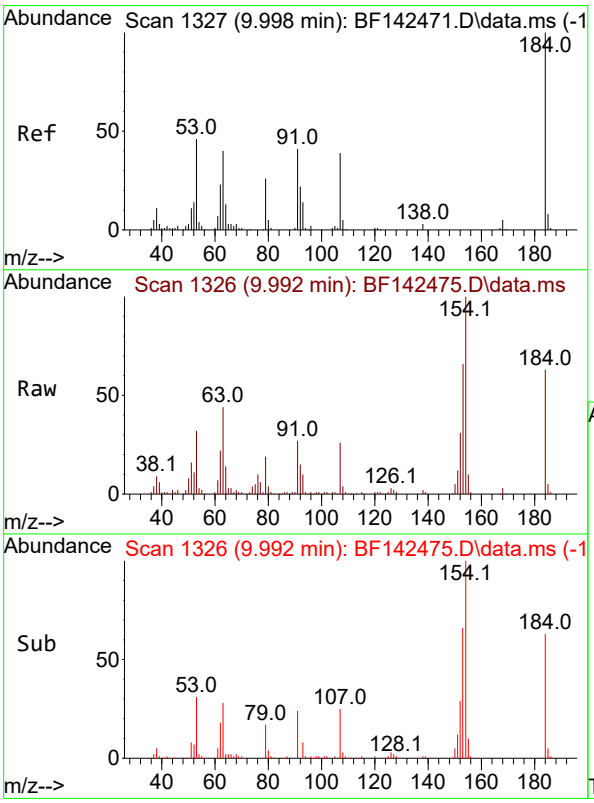
#53
3-Nitroaniline
Concen: 38.246 ng
RT: 9.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:138 Resp: 126814

Ion	Ratio	Lower	Upper
138	100		
108	9.9	8.1	12.1
92	104.6	85.2	127.8

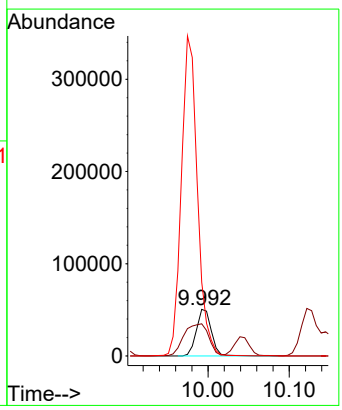


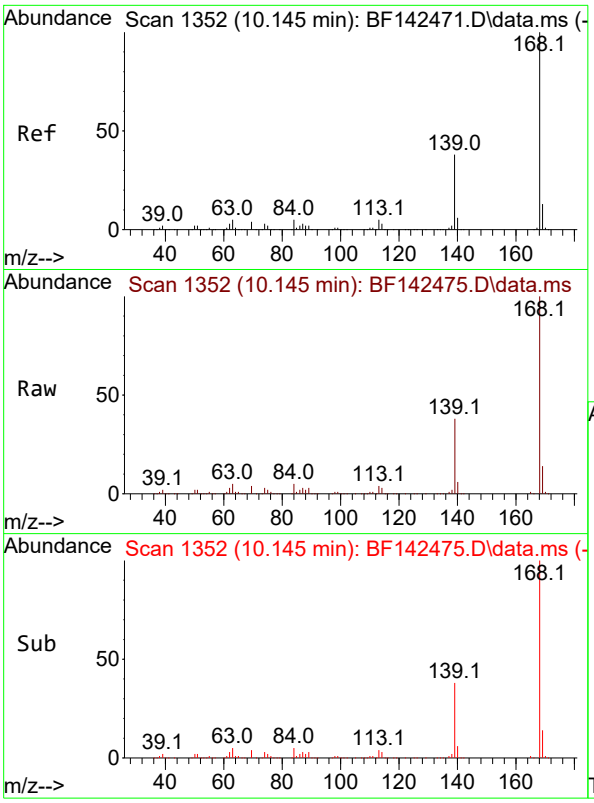


#54
2,4-Dinitrophenol
Concen: 41.481 ng
RT: 9.992 min Scan# 1326
Delta R.T. -0.012 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:184 Resp: 65057

Ion	Ratio	Lower	Upper
184	100		
63	69.3	46.3	69.5
154	158.8	56.8	85.2#



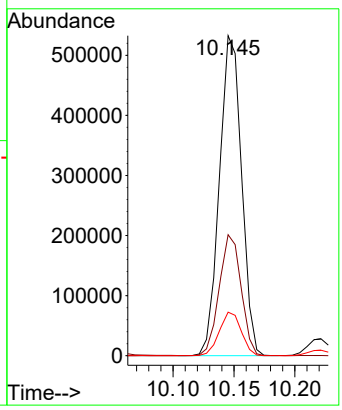


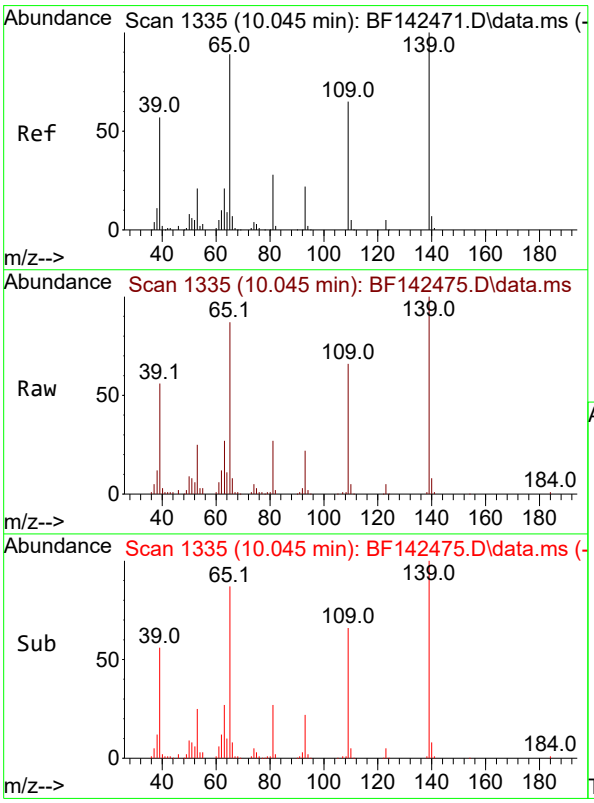
#55
Dibenzofuran
Concen: 37.170 ng
RT: 10.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:168 Resp: 673871

Ion	Ratio	Lower	Upper
168	100		
139	37.8	30.2	45.2
169	13.6	10.7	16.1

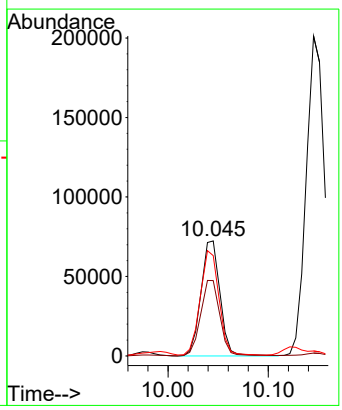


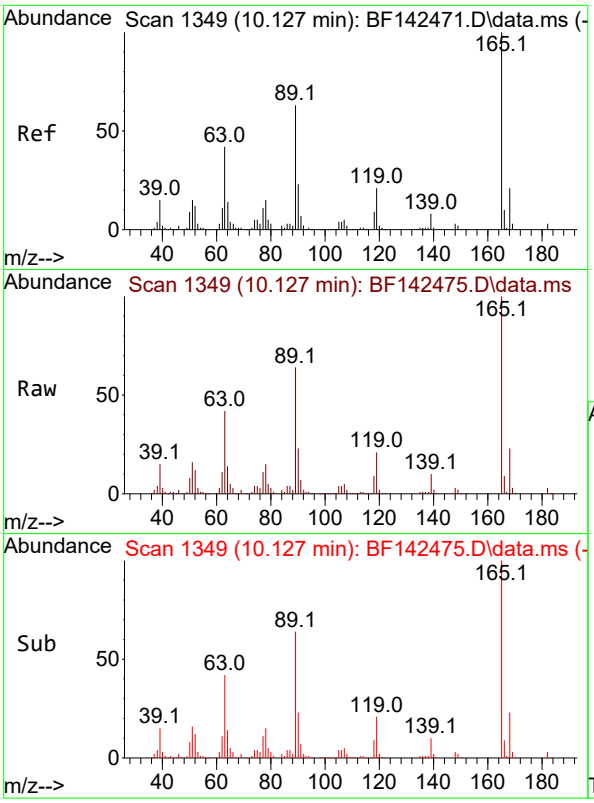


#56
4-Nitrophenol
Concen: 39.320 ng
RT: 10.045 min Scan# 1335
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:139 Resp: 96197

Ion	Ratio	Lower	Upper
139	100		
109	65.6	45.1	85.1
65	87.3	69.7	109.7



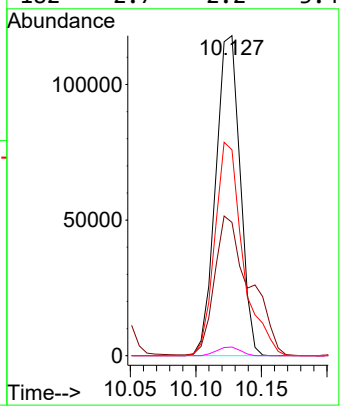


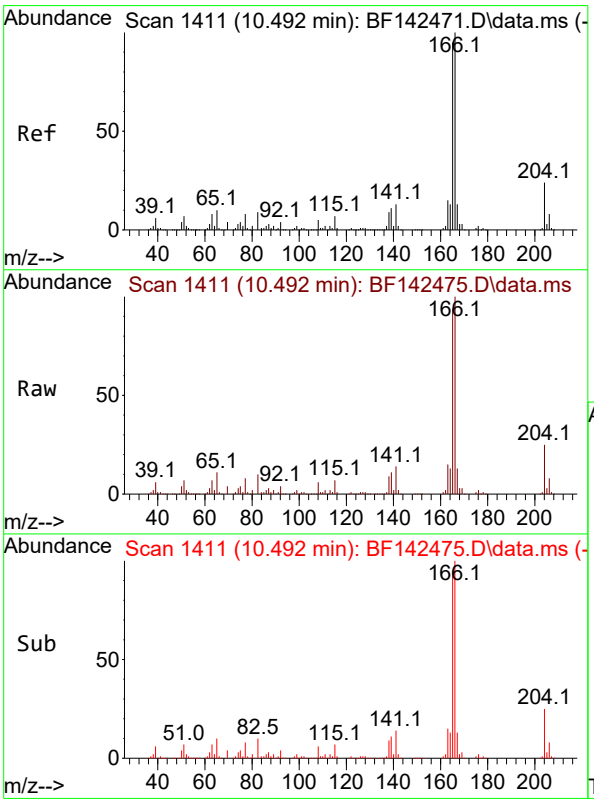
#57
2,4-Dinitrotoluene
Concen: 38.463 ng
RT: 10.127 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:165 Resp: 152488

Ion	Ratio	Lower	Upper
165	100		
63	41.6	33.6	50.4
89	64.4	50.2	75.4
182	2.7	2.2	3.4

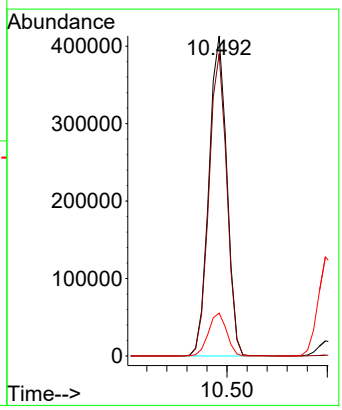


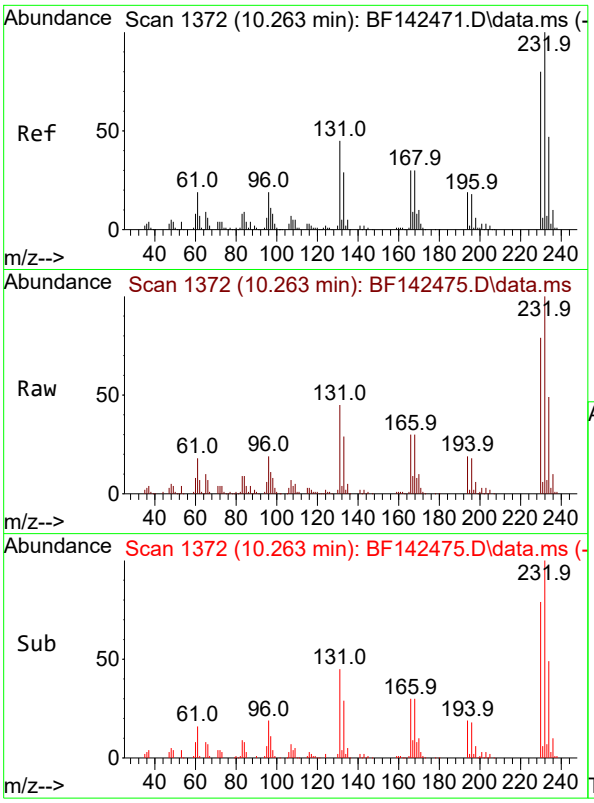


#58
Fluorene
Concen: 36.662 ng
RT: 10.492 min Scan# 1411
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:166 Resp: 513487

Ion	Ratio	Lower	Upper
166	100		
165	94.5	75.8	113.8
167	13.4	10.6	16.0



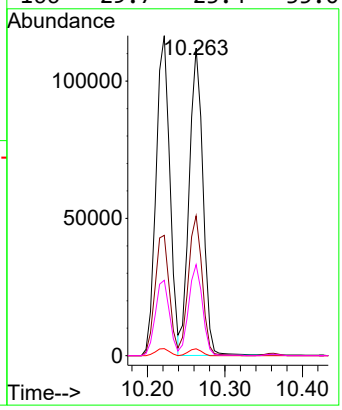


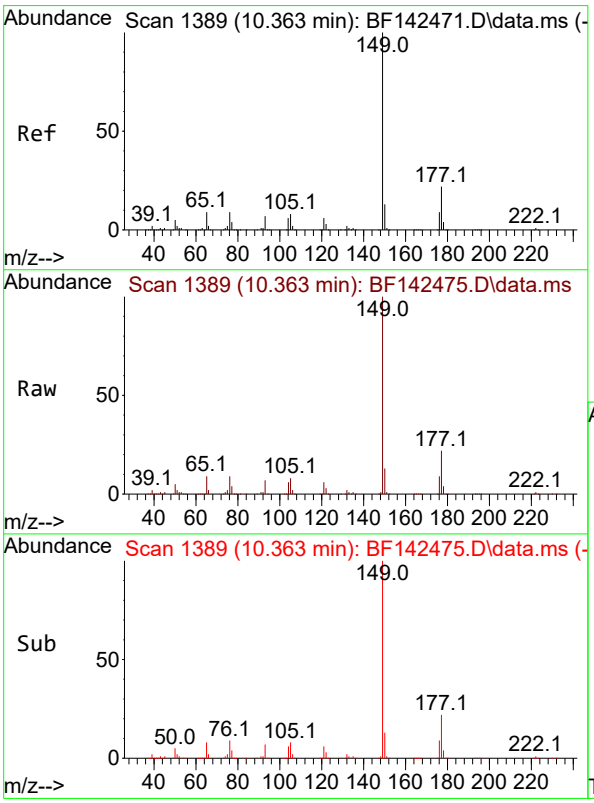
#59
2,3,4,6-Tetrachlorophenol
Concen: 38.000 ng
RT: 10.263 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:232 Resp: 138047

Ion	Ratio	Lower	Upper
232	100		
131	45.7	35.2	52.8
130	2.1	1.7	2.5
166	29.7	23.4	35.0

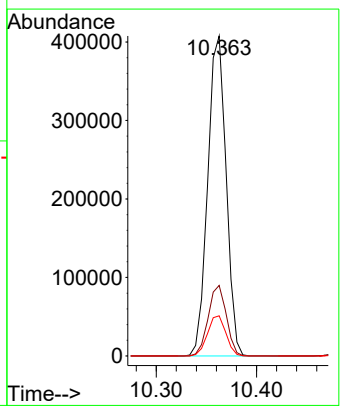


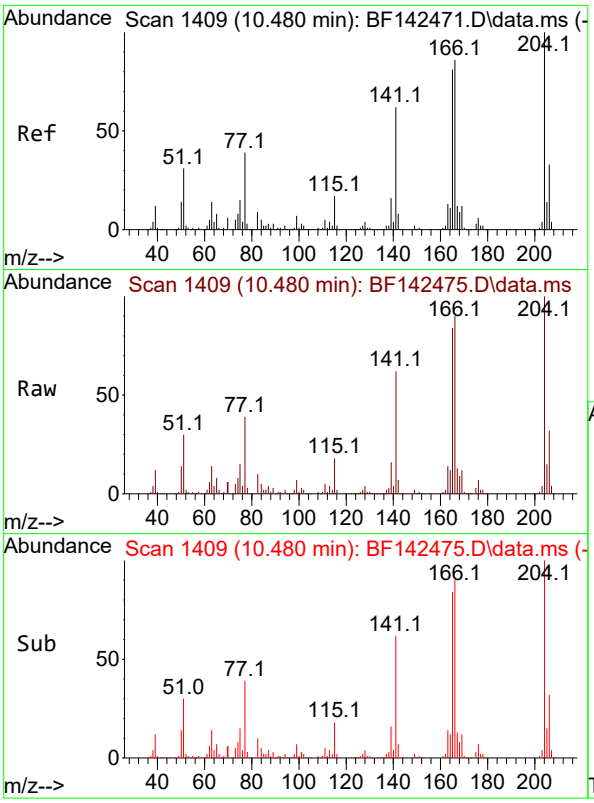


#60
Diethylphthalate
Concen: 37.844 ng
RT: 10.363 min Scan# 1389
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:149 Resp: 519861

Ion	Ratio	Lower	Upper
149	100		
177	22.1	17.6	26.4
150	12.5	10.1	15.1



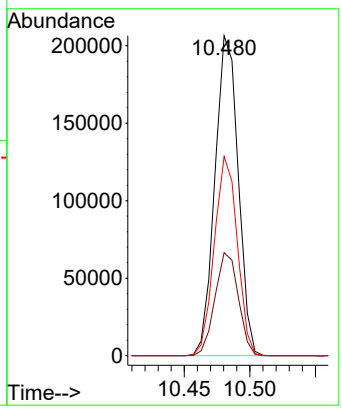


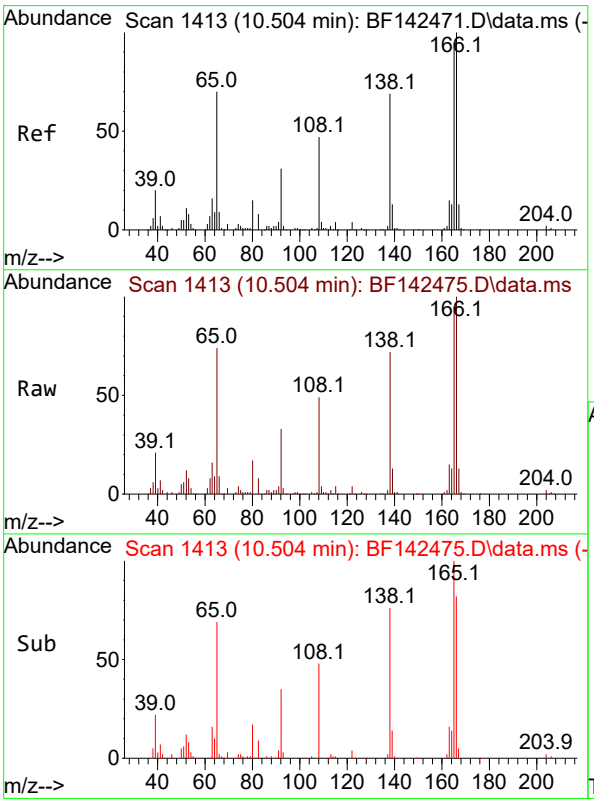
#61
4-Chlorophenyl-phenylether
Concen: 36.985 ng
RT: 10.480 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:204 Resp: 254467

Ion	Ratio	Lower	Upper
204	100		
206	32.2	26.3	39.5
141	62.3	49.5	74.3

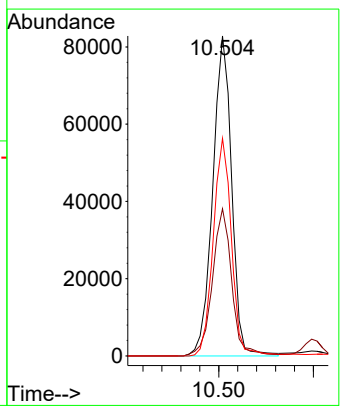


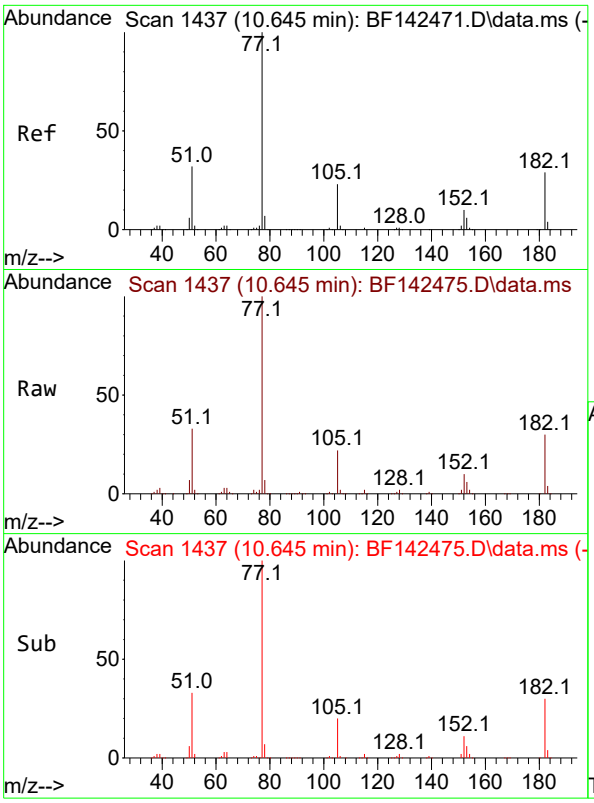


#62
4-Nitroaniline
Concen: 38.132 ng
RT: 10.504 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:138 Resp: 114671

Ion	Ratio	Lower	Upper
138	100		
92	46.0	26.0	66.0
108	68.0	48.4	88.4



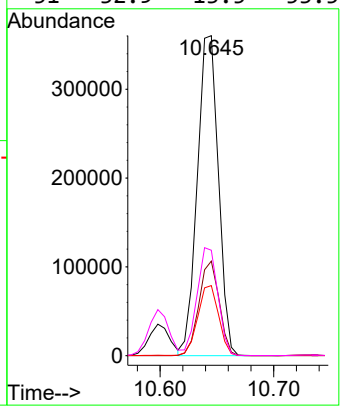


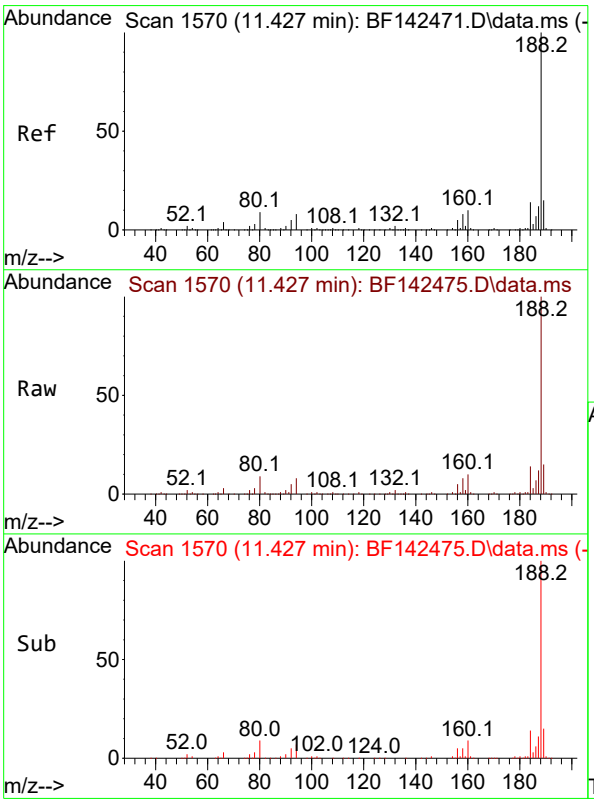
#63
Azobenzene
Concen: 37.780 ng
RT: 10.645 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion: 77 Resp: 466131

Ion	Ratio	Lower	Upper
77	100		
182	29.6	9.0	49.0
105	21.9	2.4	42.4
51	32.9	13.5	53.5

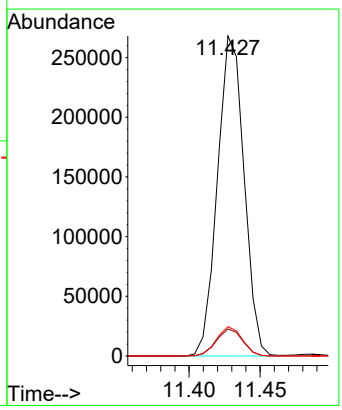


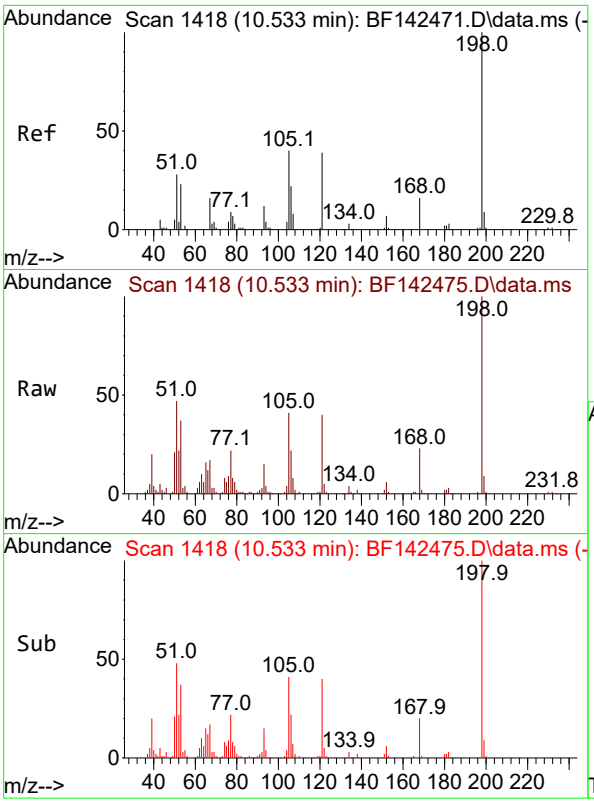


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:188 Resp: 348749

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.6	10.0
80	9.2	7.4	11.0



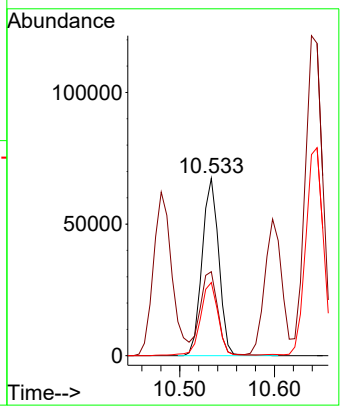


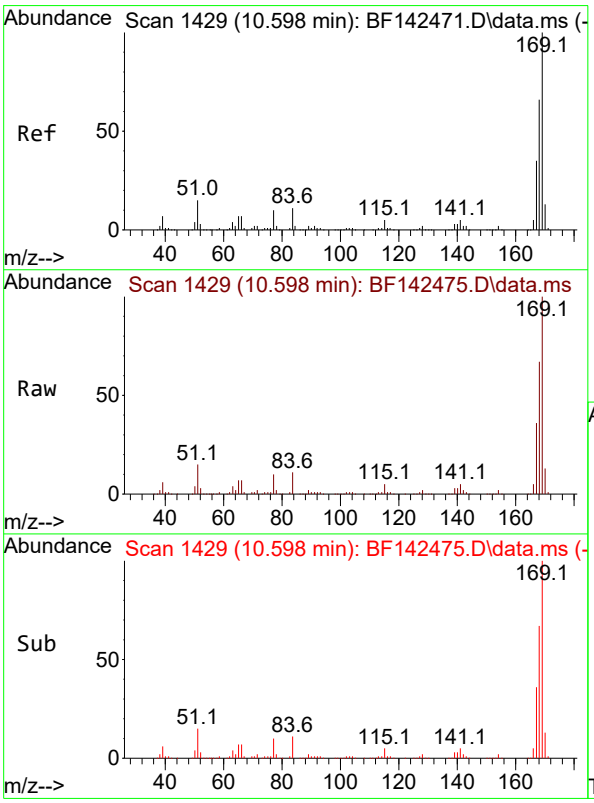
#65
4,6-Dinitro-2-methylphenol
Concen: 42.334 ng
RT: 10.533 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:198 Resp: 82393

Ion	Ratio	Lower	Upper
198	100		
51	47.3	28.3	68.3
105	41.2	21.3	61.3

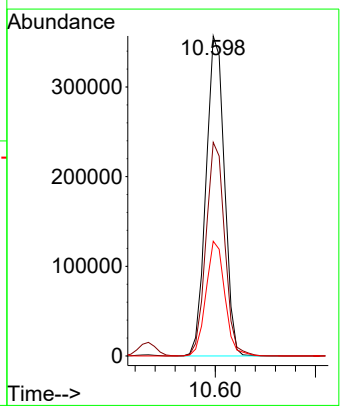


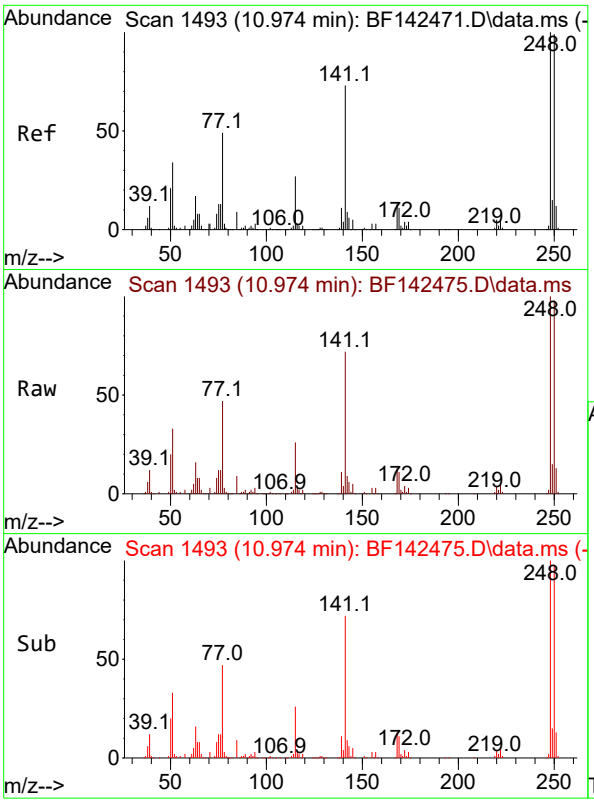


#66
n-Nitrosodiphenylamine
Concen: 38.132 ng
RT: 10.598 min Scan# 1429
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:169 Resp: 454975

Ion	Ratio	Lower	Upper
169	100		
168	66.7	52.7	79.1
167	35.8	28.3	42.5



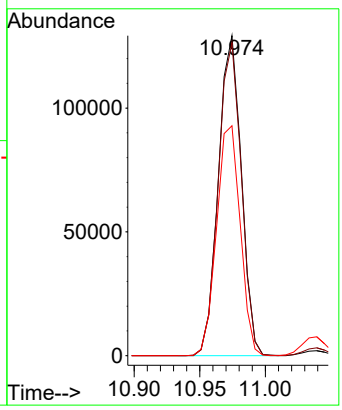


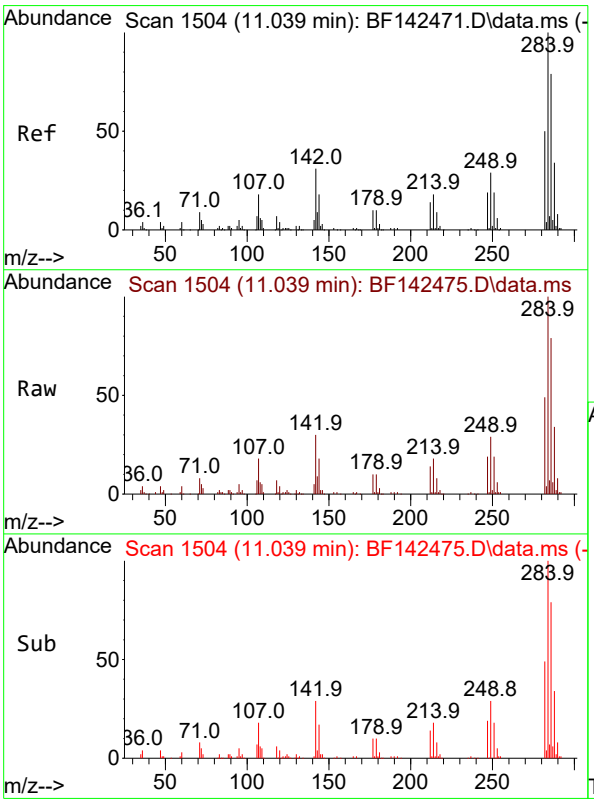
#67
4-Bromophenyl-phenylether
Concen: 38.189 ng
RT: 10.974 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:248 Resp: 157480

Ion	Ratio	Lower	Upper
248	100		
250	97.8	79.0	118.4
141	71.8	58.4	87.6

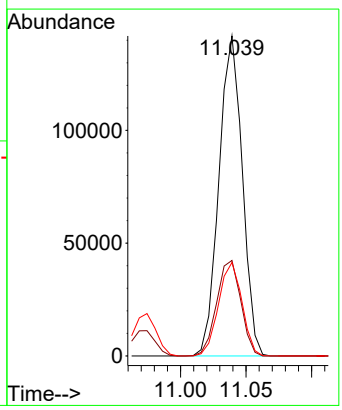


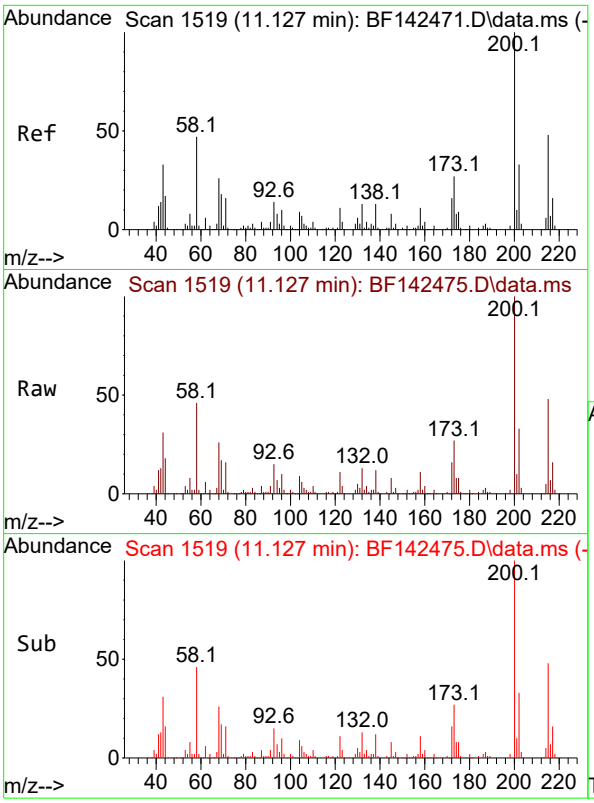


#68
Hexachlorobenzene
Concen: 38.554 ng
RT: 11.039 min Scan# 1504
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:284 Resp: 175840

Ion	Ratio	Lower	Upper
284	100		
142	29.9	24.8	37.2
249	29.2	23.6	35.4



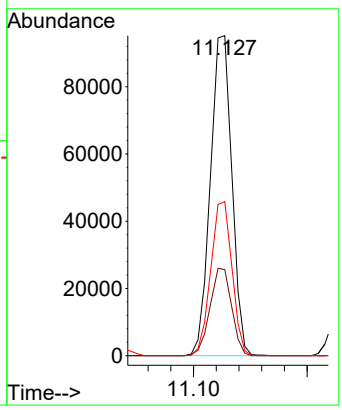


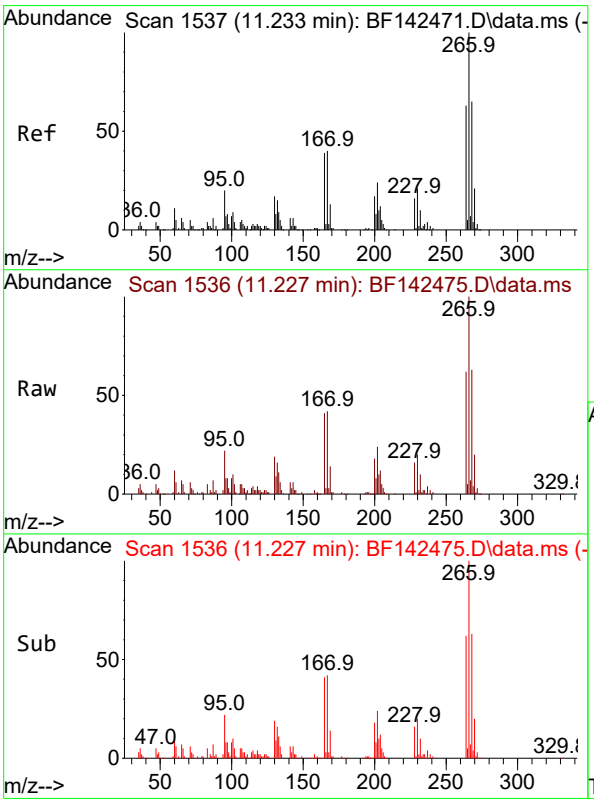
#69
Atrazine
Concen: 39.541 ng
RT: 11.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:200 Resp: 125293

Ion	Ratio	Lower	Upper
200	100		
173	26.9	7.4	47.4
215	48.1	28.5	68.5

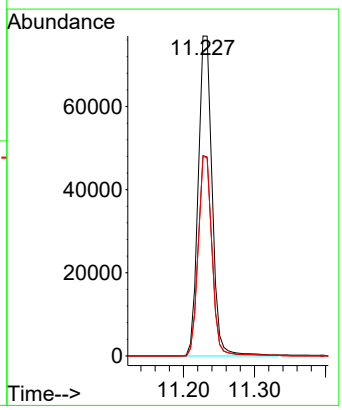


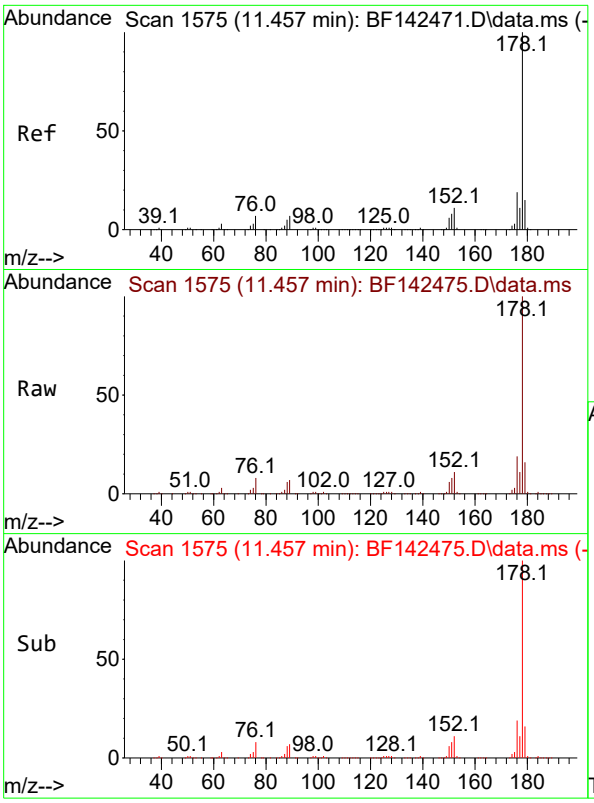


#70
Pentachlorophenol
Concen: 40.866 ng
RT: 11.227 min Scan# 1536
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:266 Resp: 105232

Ion	Ratio	Lower	Upper
266	100		
268	62.6	51.7	77.5
264	62.5	50.4	75.6



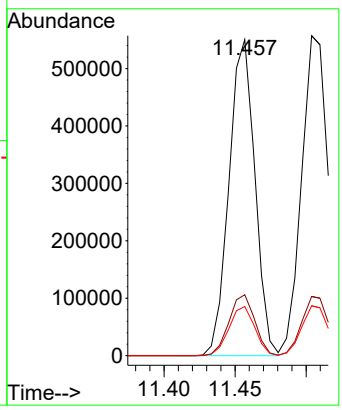


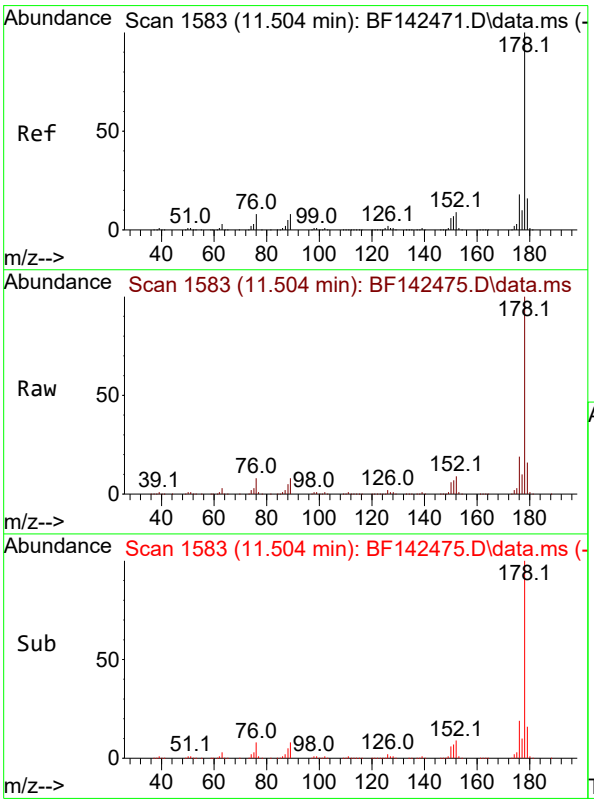
#71
Phenanthrene
Concen: 37.478 ng
RT: 11.457 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:178 Resp: 698503

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.0
179	15.5	12.3	18.5

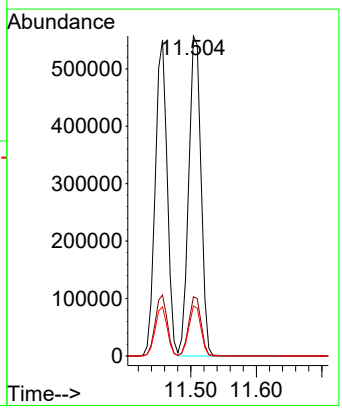


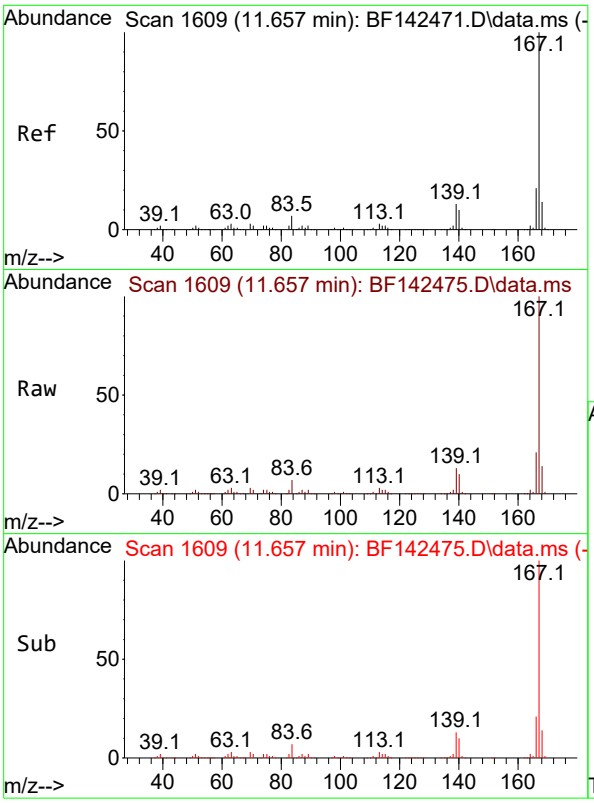


#72
Anthracene
Concen: 38.032 ng
RT: 11.504 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:178 Resp: 723416

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	21.8
179	15.6	12.4	18.6



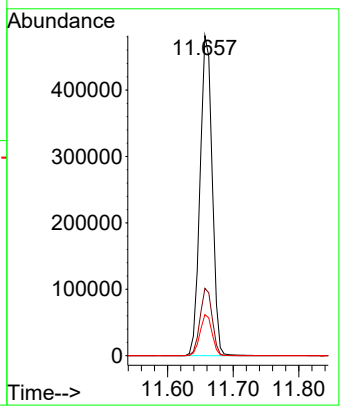


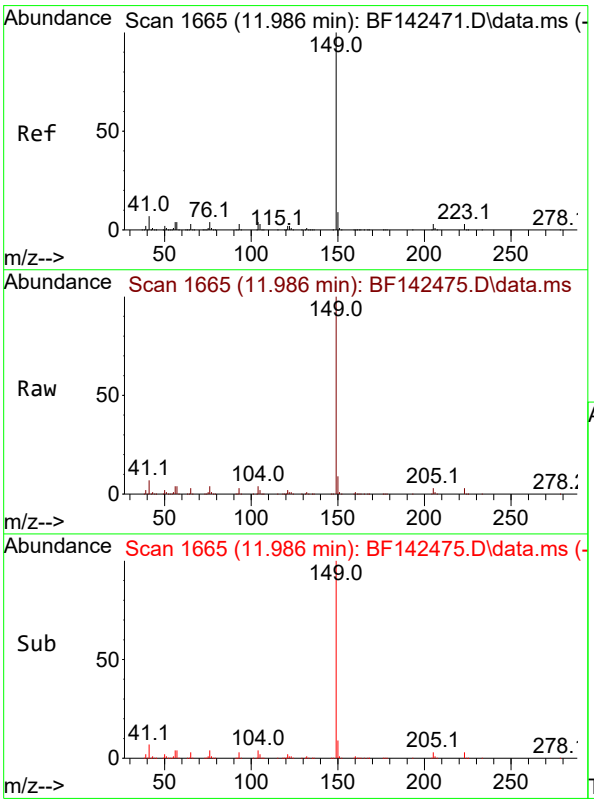
#73
Carbazole
Concen: 38.300 ng
RT: 11.657 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:167 Resp: 622812

Ion	Ratio	Lower	Upper
167	100		
166	21.1	16.9	25.3
139	12.8	10.2	15.4

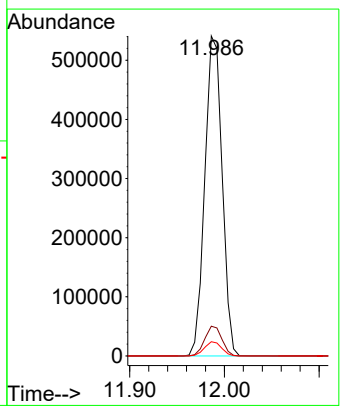


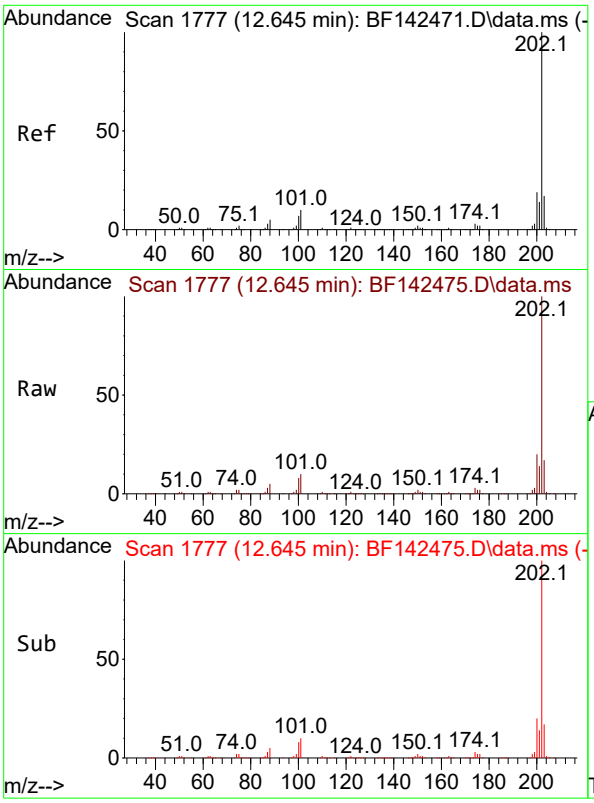


#74
Di-n-butylphthalate
Concen: 38.596 ng
RT: 11.986 min Scan# 1665
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:149 Resp: 686988

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.3	10.9
104	4.4	3.6	5.4



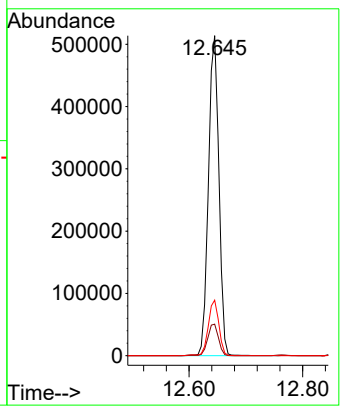


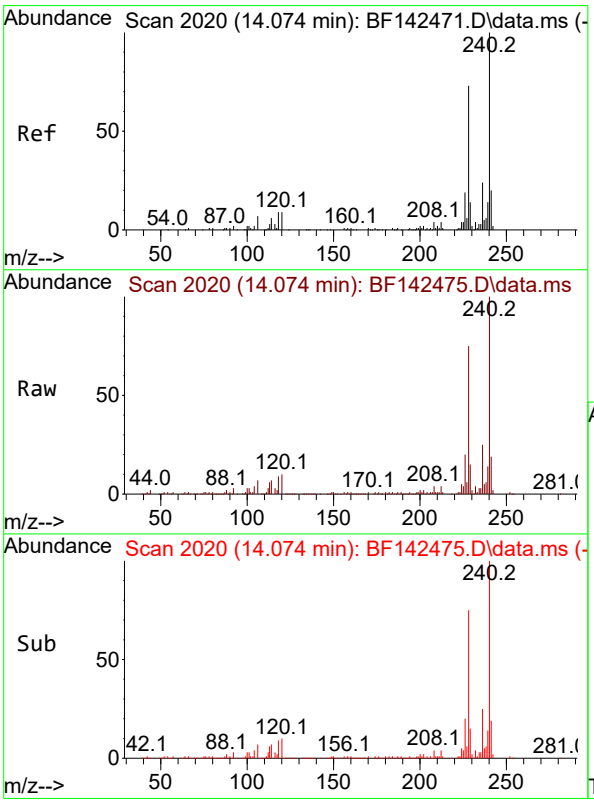
#75
Fluoranthene
Concen: 37.479 ng
RT: 12.645 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:202 Resp: 652697

Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	29.6
203	17.3	0.0	37.2

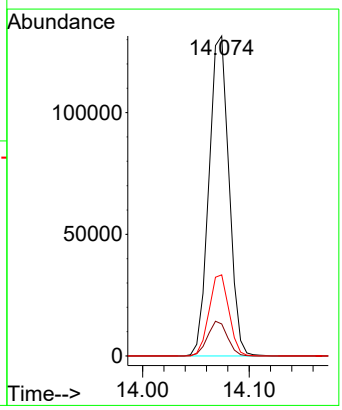


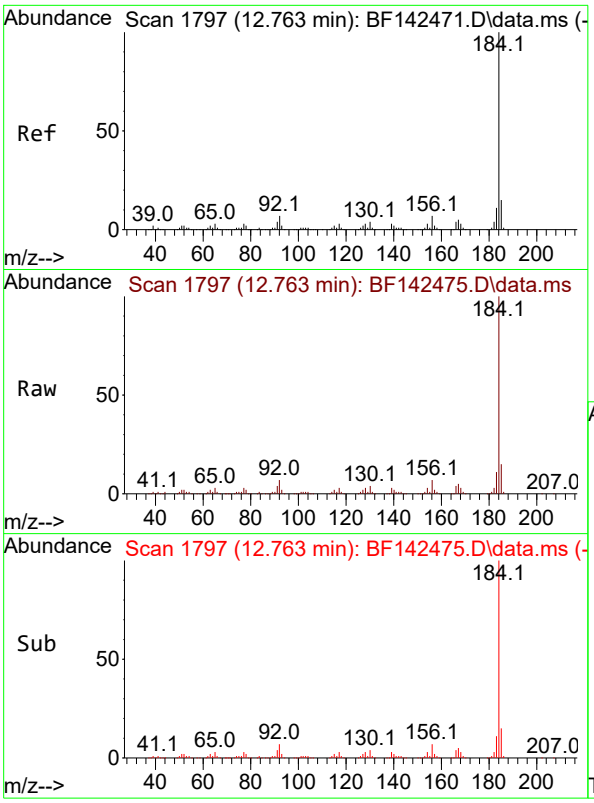


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.074 min Scan# 2020
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:240 Resp: 171632

Ion	Ratio	Lower	Upper
240	100		
120	10.0	7.5	11.3
236	25.3	19.6	29.4



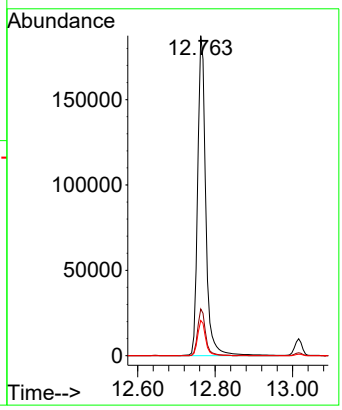


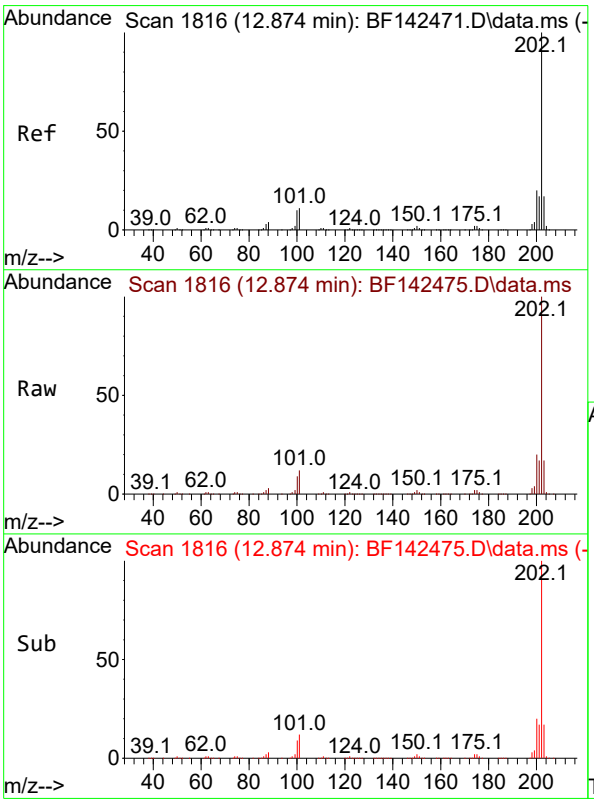
#77
Benzidine
Concen: 42.525 ng
RT: 12.763 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:184 Resp: 271606

Ion	Ratio	Lower	Upper
184	100		
185	14.6	11.6	17.4
183	11.0	9.0	13.4

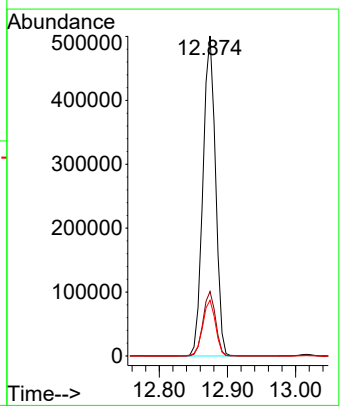


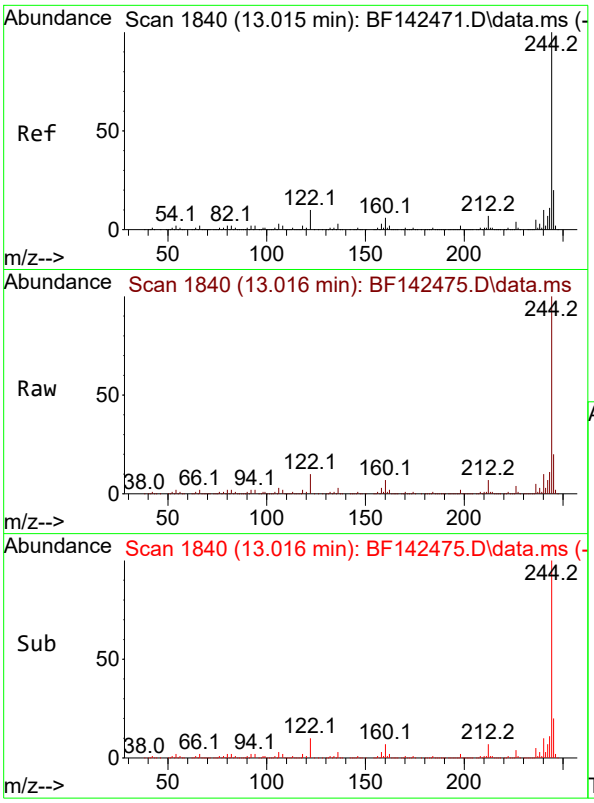


#78
Pyrene
Concen: 40.108 ng
RT: 12.874 min Scan# 1816
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:202 Resp: 642163

Ion	Ratio	Lower	Upper
202	100		
200	20.2	16.1	24.1
203	17.4	13.9	20.9



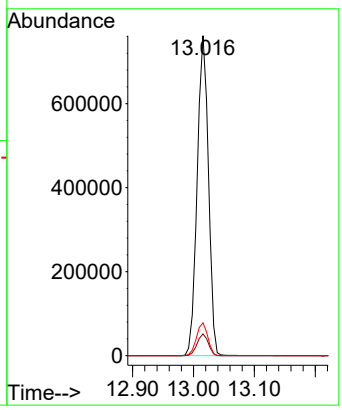


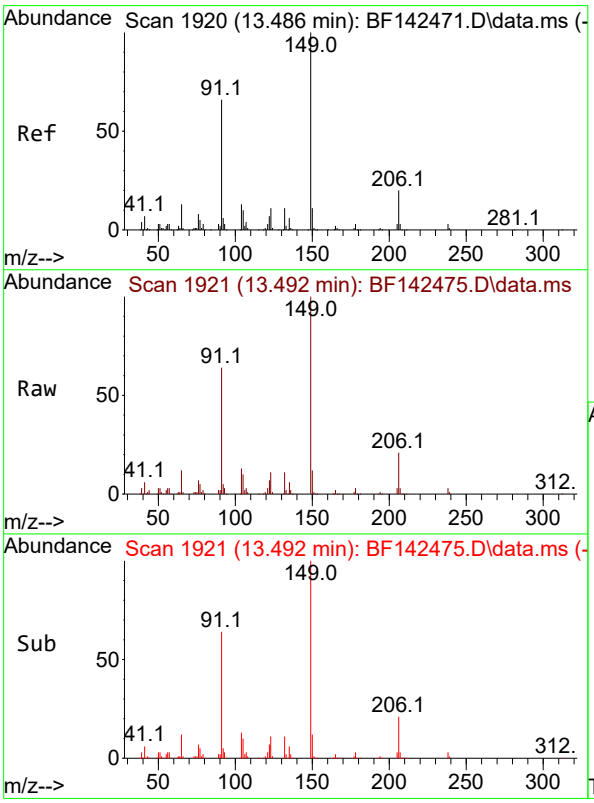
#79
Terphenyl-d14
Concen: 77.714 ng
RT: 13.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:244 Resp: 976059

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.3	7.9
122	10.2	8.2	12.2

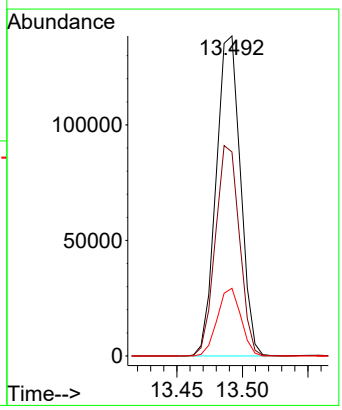


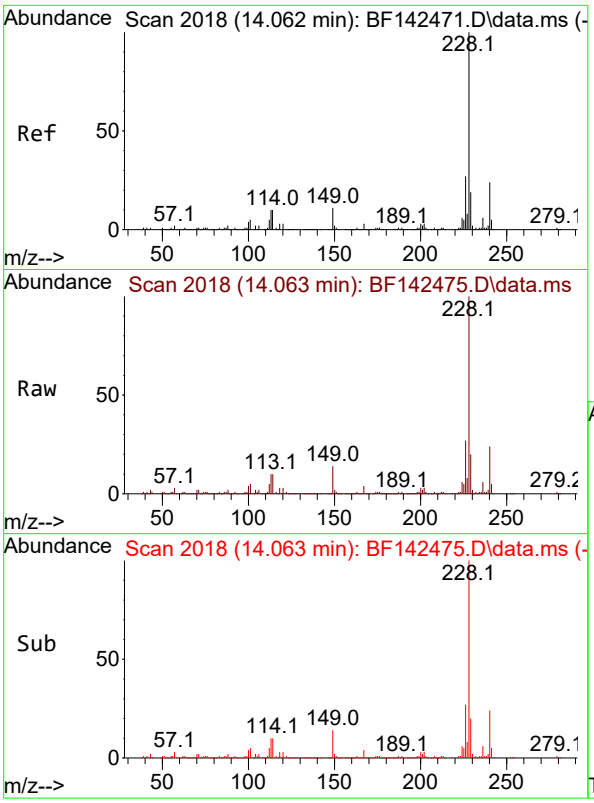


#80
Butylbenzylphthalate
Concen: 40.275 ng
RT: 13.492 min Scan# 1921
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:149 Resp: 178179

Ion	Ratio	Lower	Upper
149	100		
91	63.8	52.9	79.3
206	21.1	16.2	24.2



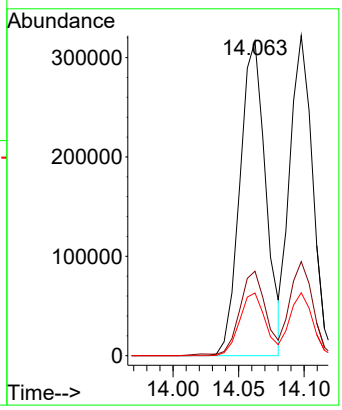


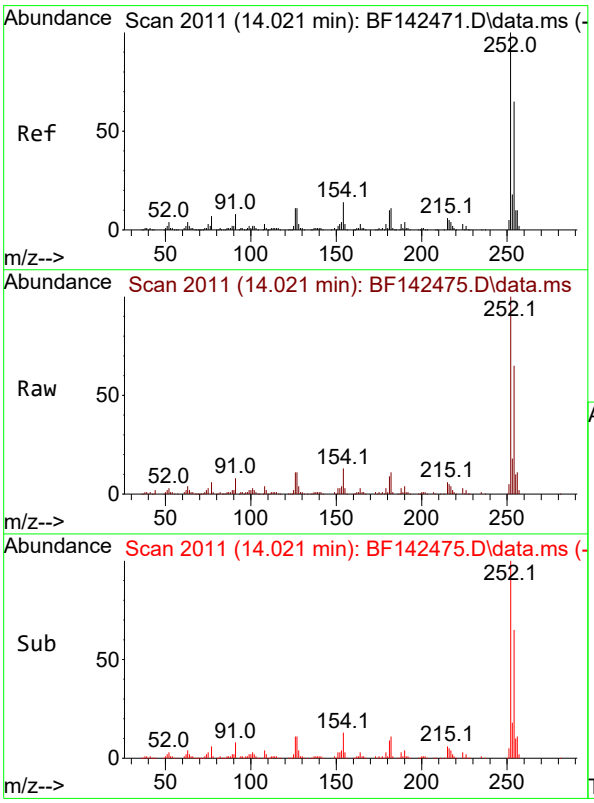
#81
Benzo(a)anthracene
Concen: 37.981 ng
RT: 14.063 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:228 Resp: 435297

Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.2	31.8
229	20.0	15.5	23.3

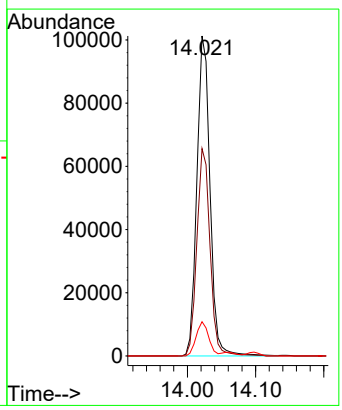


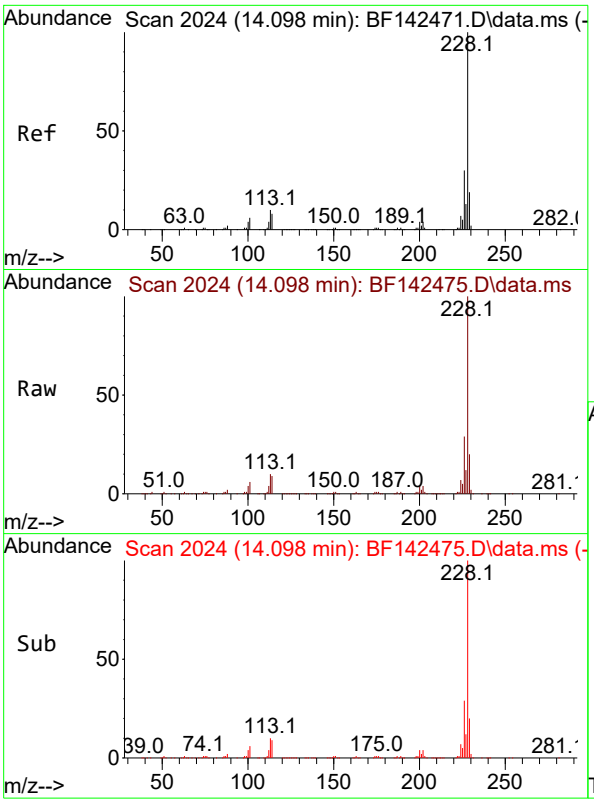


#82
3,3'-Dichlorobenzidine
Concen: 38.874 ng
RT: 14.021 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:252 Resp: 135132

Ion	Ratio	Lower	Upper
252	100		
254	64.8	52.0	78.0
126	10.7	8.9	13.3



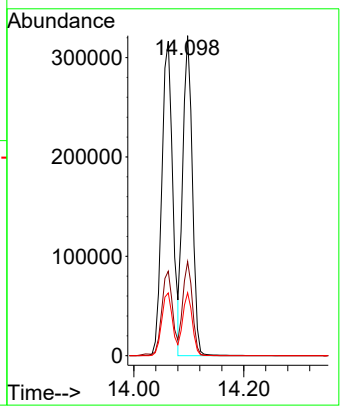


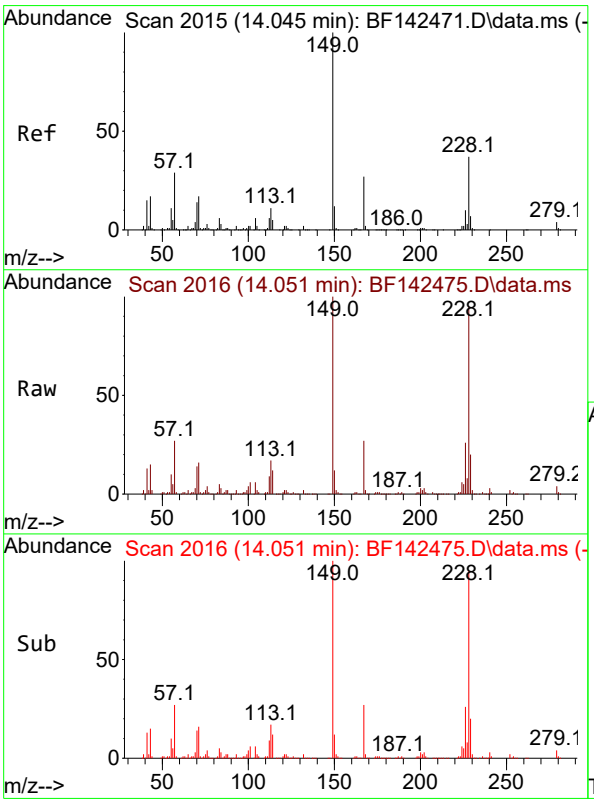
#83
Chrysene
Concen: 37.768 ng
RT: 14.098 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:228 Resp: 388943

Ion	Ratio	Lower	Upper
228	100		
226	29.4	23.8	35.6
229	19.6	15.4	23.2

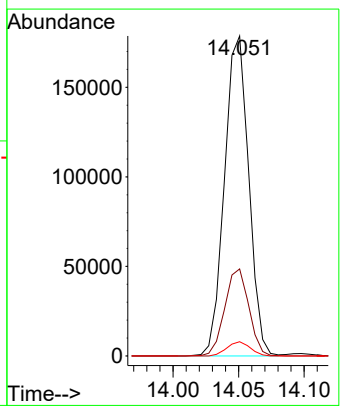


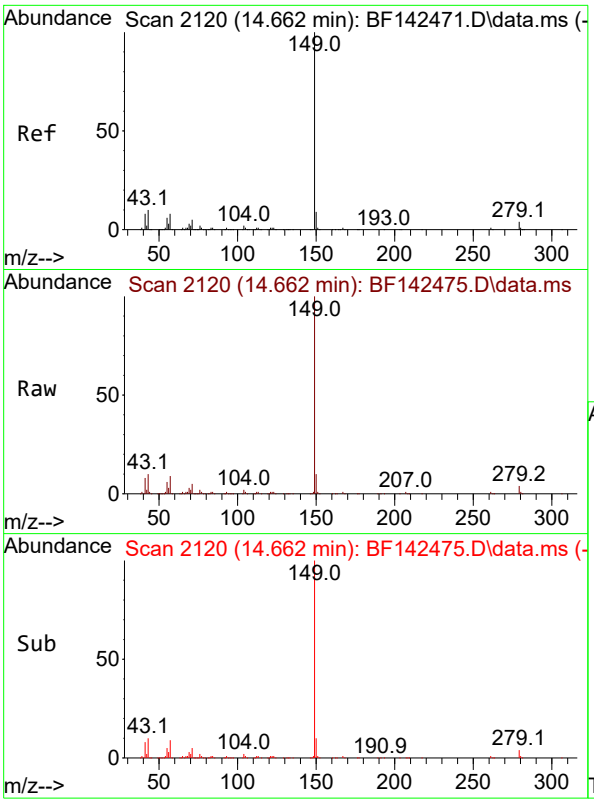


#84
Bis(2-ethylhexyl)phthalate
Concen: 40.596 ng
RT: 14.051 min Scan# 2016
Delta R.T. 0.000 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:149 Resp: 229915

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.5	32.3
279	4.4	3.2	4.8



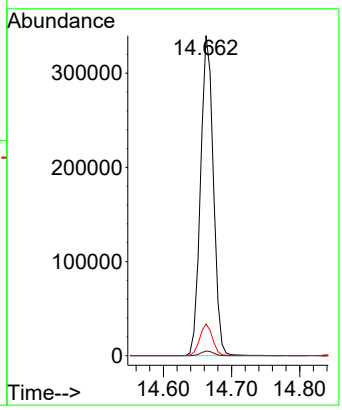


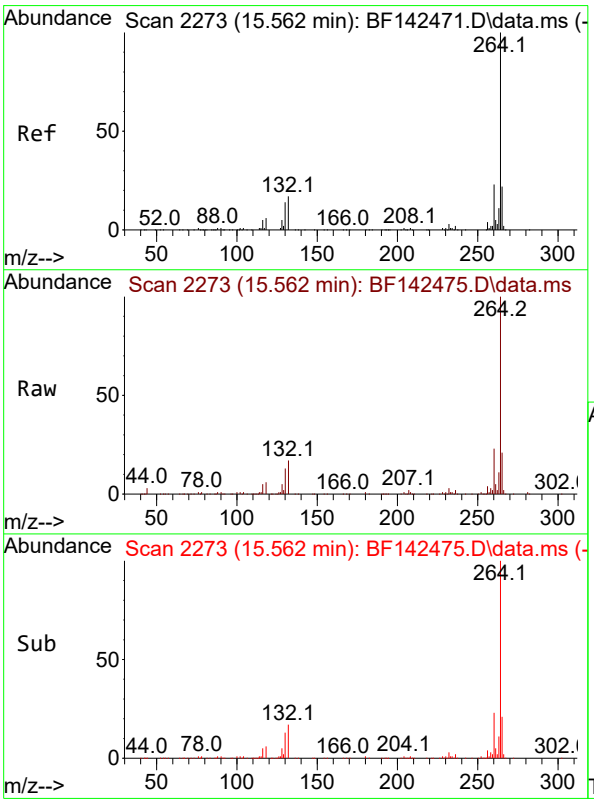
#85
Di-n-octyl phthalate
Concen: 40.048 ng
RT: 14.662 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:149 Resp: 443488

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	9.8	7.9	11.9

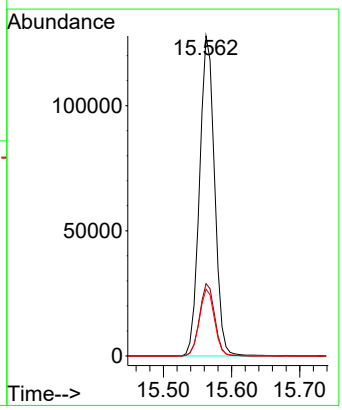


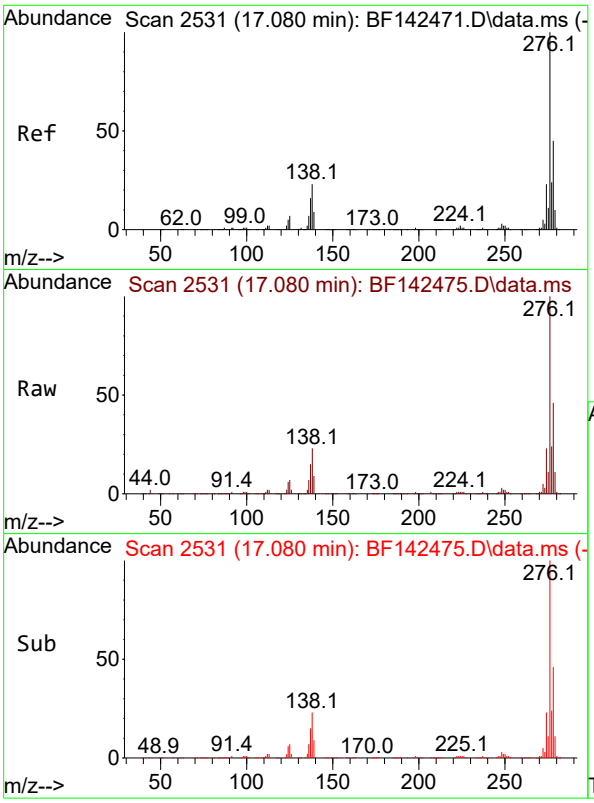


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:264 Resp: 195956

Ion	Ratio	Lower	Upper
264	100		
260	22.6	18.6	28.0
265	20.9	17.7	26.5



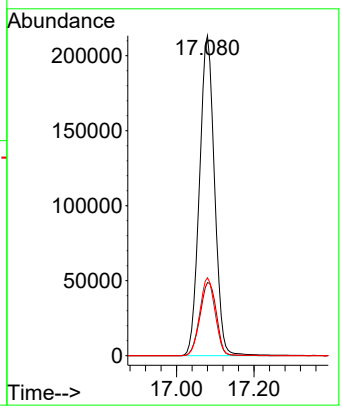


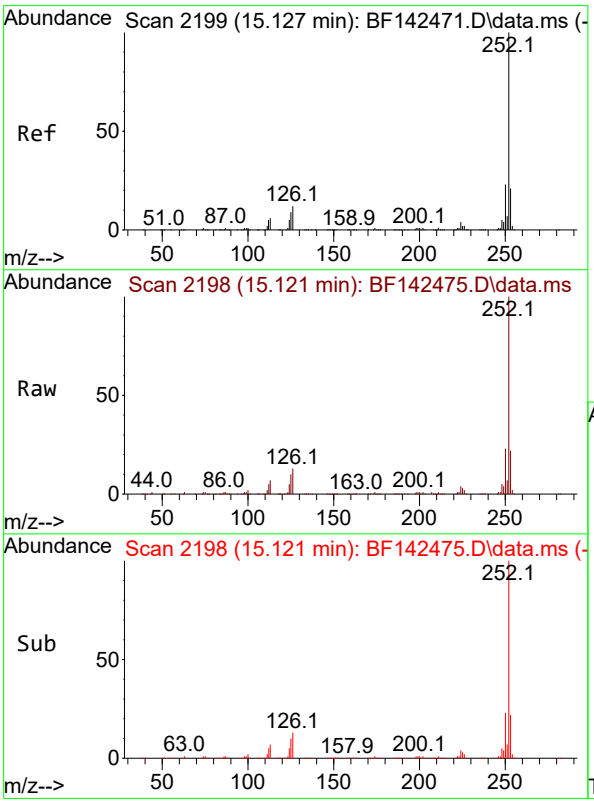
#87
Indeno(1,2,3-cd)pyrene
Concen: 39.070 ng
RT: 17.080 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:276 Resp: 574771

Ion	Ratio	Lower	Upper
276	100		
138	24.9	19.9	29.9
277	25.0	20.2	30.2

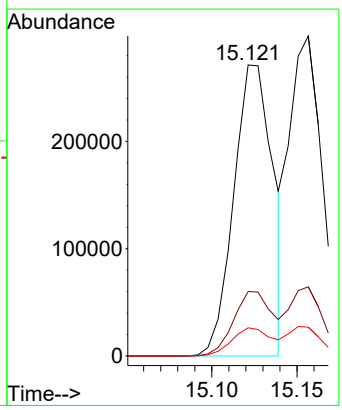


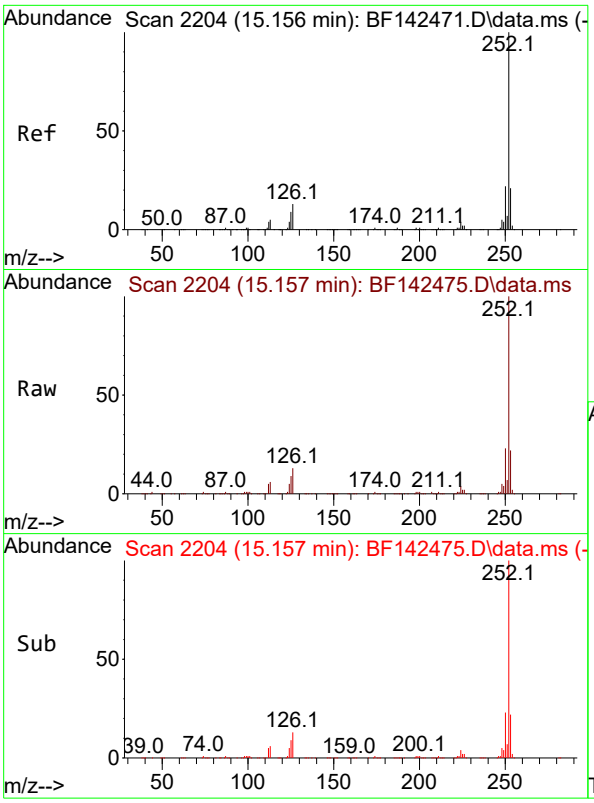


#88
Benzo(b)fluoranthene
Concen: 37.396 ng
RT: 15.121 min Scan# 2198
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:252 Resp: 433704

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.0	25.4
125	9.7	7.4	11.0



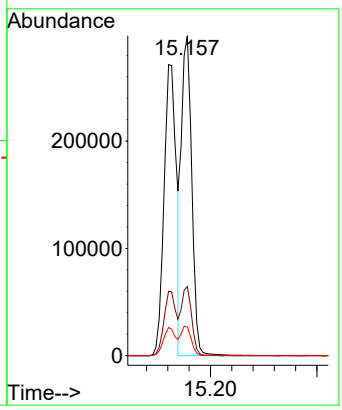


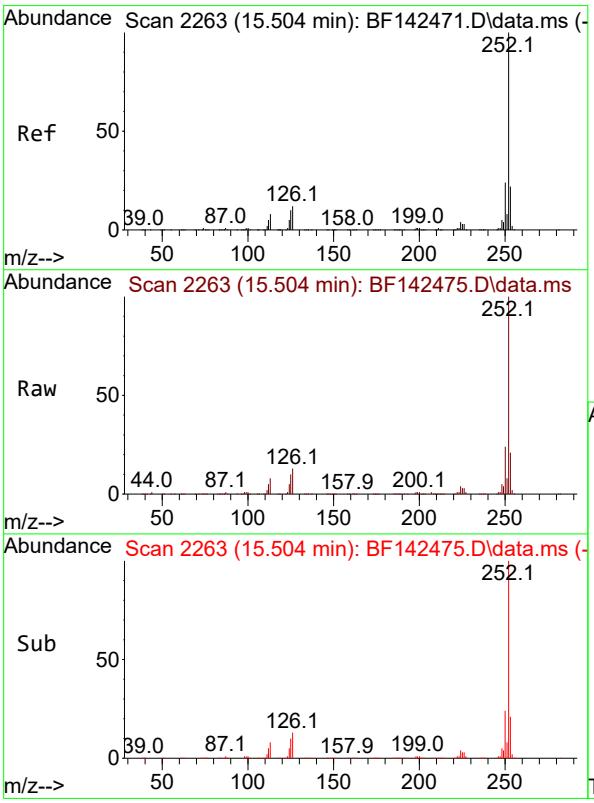
#89
Benzo(k)fluoranthene
Concen: 37.255 ng
RT: 15.157 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:252 Resp: 404679

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.0	25.4
125	9.0	7.3	10.9

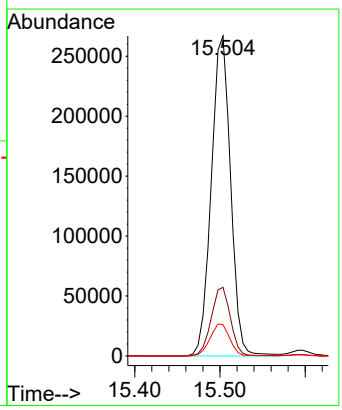


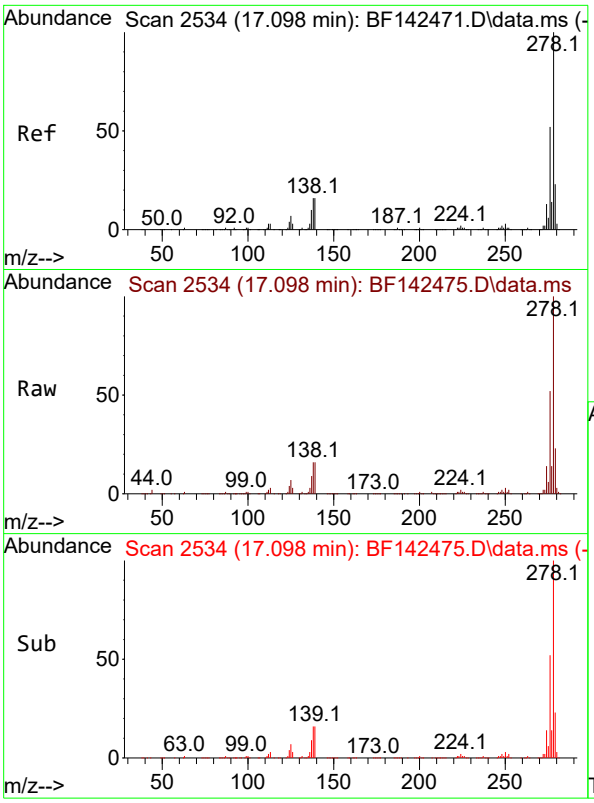


#90
Benzo(a)pyrene
Concen: 38.578 ng
RT: 15.504 min Scan# 2263
Delta R.T. -0.006 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:252 Resp: 421730

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.4	26.0
125	9.8	7.9	11.9



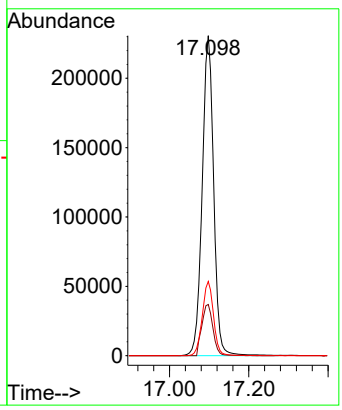


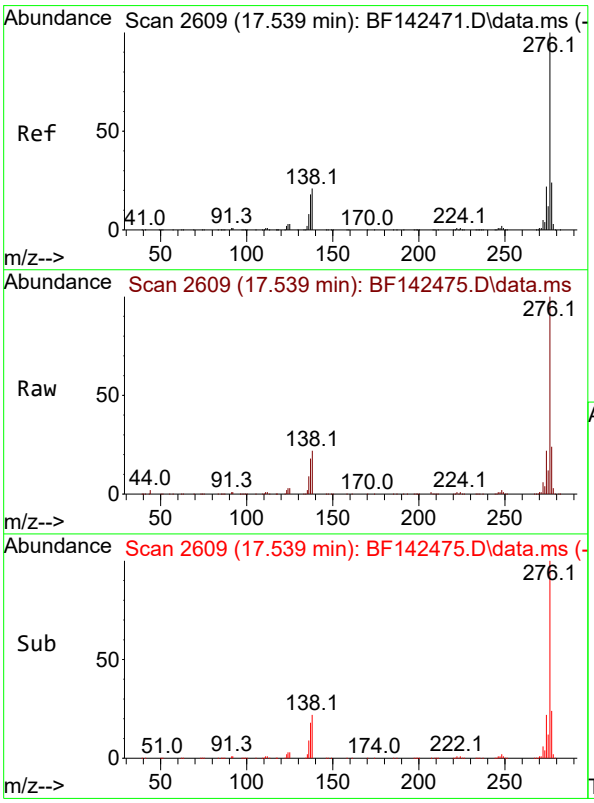
#91
Dibenzo(a,h)anthracene
Concen: 38.868 ng
RT: 17.098 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Tgt Ion:278 Resp: 463752

Ion	Ratio	Lower	Upper
278	100		
139	16.0	12.8	19.2
279	23.2	18.6	28.0

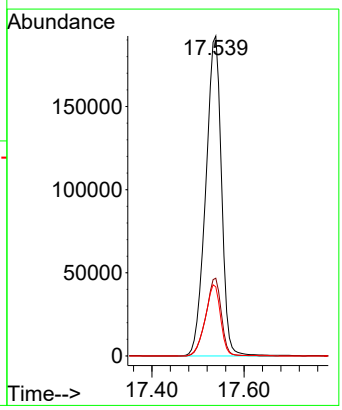




#92
Benzo(g,h,i)perylene
Concen: 38.345 ng
RT: 17.539 min Scan# 2609
Delta R.T. -0.018 min
Lab File: BF142475.D
Acq: 20 May 2025 16:31

Tgt Ion:276 Resp: 457604

Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.2	28.8
138	21.6	16.8	25.2



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142475.D
Acq On : 20 May 2025 16:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Quant Time: May 20 17:07:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
2		1,4-Dioxane	0.475	0.453	4.6	101	0.00
3		Pyridine	1.210	1.168	3.5	102	0.00
4		n-Nitrosodimethylamine	0.628	0.612	2.5	101	-0.02
5	S	2-Fluorophenol	1.187	1.115	6.1	101	0.00
6		Aniline	1.921	1.845	4.0	102	0.00
7	S	Phenol-d6	1.429	1.358	5.0	101	-0.01
8		2-Chlorophenol	1.293	1.225	5.3	100	0.00
9		Benzaldehyde	0.859	0.832	3.1	104	0.00
10	C	Phenol	1.608	1.542	4.1	103	-0.01
11		bis(2-Chloroethyl)ether	1.157	1.108	4.2	102	0.00
12		1,3-Dichlorobenzene	1.443	1.356	6.0	99	0.00
13	C	1,4-Dichlorobenzene	1.453	1.384	4.7	100	0.00
14		1,2-Dichlorobenzene	1.391	1.311	5.8	101	0.00
15		Benzyl Alcohol	1.056	1.021	3.3	102	0.00
16		2,2'-oxybis(1-Chloropropane	1.944	1.843	5.2	101	0.00
17		2-Methylphenol	1.010	0.972	3.8	101	0.00
18		Hexachloroethane	0.507	0.484	4.5	101	0.00
19	P	n-Nitroso-di-n-propylamine	0.886	0.838	5.4	101	-0.02
20		3+4-Methylphenols	1.293	1.229	4.9	101	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	102	0.00
22		Acetophenone	0.443	0.422	4.7	100	0.00
23	S	Nitrobenzene-d5	0.367	0.354	3.5	102	-0.01
24		Nitrobenzene	0.331	0.320	3.3	101	0.00
25		Isophorone	0.613	0.581	5.2	100	-0.01
26	C	2-Nitrophenol	0.177	0.177	0.0	103	0.00
27		2,4-Dimethylphenol	0.312	0.304	2.6	102	0.00
28		bis(2-Chloroethoxy)methane	0.383	0.368	3.9	103	0.00
29	C	2,4-Dichlorophenol	0.283	0.271	4.2	100	0.00
30		1,2,4-Trichlorobenzene	0.308	0.294	4.5	102	0.00
31		Naphthalene	0.985	0.938	4.8	102	0.00
32		Benzoic acid	0.190	0.192	-1.1	104	-0.04
33		4-Chloroaniline	0.399	0.389	2.5	102	0.00
34	C	Hexachlorobutadiene	0.192	0.185	3.6	101	0.00
35		Caprolactam	0.080	0.078	2.5	101	-0.02
36	C	4-Chloro-3-methylphenol	0.291	0.281	3.4	102	-0.01
37		2-Methylnaphthalene	0.620	0.590	4.8	102	0.00
38		1-Methylnaphthalene	0.641	0.612	4.5	102	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	103	0.00
40		1,2,4,5-Tetrachlorobenzene	0.574	0.538	6.3	101	0.00
41	P	Hexachlorocyclopentadiene	0.387	0.387	0.0	102	0.00
42	S	2,4,6-Tribromophenol	0.222	0.210	5.4	103	0.00
43	C	2,4,6-Trichlorophenol	0.387	0.367	5.2	102	0.00
44		2,4,5-Trichlorophenol	0.408	0.385	5.6	101	0.00
45	S	2-Fluorobiphenyl	1.490	1.352	9.3	101	0.00
46		1,1'-Biphenyl	1.552	1.454	6.3	102	0.00
47		2-Chloronaphthalene	1.146	1.082	5.6	102	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142475.D
Acq On : 20 May 2025 16:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Quant Time: May 20 17:07:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.331	0.322	2.7	103	0.00
49		Acenaphthylene	1.936	1.821	5.9	102	0.00
50		Dimethylphthalate	1.320	1.227	7.0	101	0.00
51		2,6-Dinitrotoluene	0.285	0.272	4.6	100	0.00
52	C	Acenaphthene	1.182	1.119	5.3	103	0.00
53		3-Nitroaniline	0.311	0.297	4.5	103	0.00
54	P	2,4-Dinitrophenol	0.147	0.153	-4.1	106	-0.01
55		Dibenzofuran	1.701	1.581	7.1	102	0.00
56	P	4-Nitrophenol	0.230	0.226	1.7	103	0.00
57		2,4-Dinitrotoluene	0.372	0.358	3.8	102	0.00
58		Fluorene	1.314	1.204	8.4	101	0.00
59		2,3,4,6-Tetrachlorophenol	0.341	0.324	5.0	101	0.00
60		Diethylphthalate	1.289	1.219	5.4	102	0.00
61		4-Chlorophenyl-phenylether	0.646	0.597	7.6	101	0.00
62		4-Nitroaniline	0.282	0.269	4.6	100	-0.01
63		Azobenzene	1.158	1.093	5.6	102	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	102	0.00
65		4,6-Dinitro-2-methylphenol	0.112	0.118	-5.4	104	0.00
66	c	n-Nitrosodiphenylamine	0.684	0.652	4.7	102	0.00
67		4-Bromophenyl-phenylether	0.236	0.226	4.2	103	0.00
68		Hexachlorobenzene	0.262	0.252	3.8	102	0.00
69		Atrazine	0.182	0.180	1.1	103	0.00
70	C	Pentachlorophenol	0.148	0.151	-2.0	104	0.00
71		Phenanthrene	1.069	1.001	6.4	101	0.00
72		Anthracene	1.091	1.037	4.9	102	0.00
73		Carbazole	0.933	0.893	4.3	102	0.00
74		Di-n-butylphthalate	1.021	0.985	3.5	103	0.00
75	C	Fluoranthene	0.999	0.936	6.3	101	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	102	0.00
77		Benzidine	0.744	0.791	-6.3	101	0.00
78		Pyrene	1.866	1.871	-0.3	102	0.00
79	S	Terphenyl-d14	1.464	1.422	2.9	101	0.00
80		Butylbenzylphthalate	0.516	0.519	-0.6	100	0.00
81		Benzo(a)anthracene	1.336	1.268	5.1	101	0.00
82		3,3'-Dichlorobenzidine	0.405	0.394	2.7	98	0.00
83		Chrysene	1.200	1.133	5.6	100	0.00
84		Bis(2-ethylhexyl)phthalate	0.660	0.670	-1.5	101	0.00
85	c	Di-n-octyl phthalate	1.290	1.292	-0.2	104	0.00
86	I	Perylene-d12	1.000	1.000	0.0	104	0.00
87		Indeno(1,2,3-cd)pyrene	1.501	1.467	2.3	105	-0.01
88		Benzo(b)fluoranthene	1.184	1.107	6.5	102	0.00
89		Benzo(k)fluoranthene	1.109	1.033	6.9	103	0.00
90	C	Benzo(a)pyrene	1.116	1.076	3.6	103	0.00
91		Dibenzo(a,h)anthracene	1.218	1.183	2.9	103	-0.02
92		Benzo(g,h,i)perylene	1.218	1.168	4.1	102	-0.02

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142475.D
Acq On : 20 May 2025 16:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Quant Time: May 20 17:07:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142475.D
Acq On : 20 May 2025 16:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Quant Time: May 20 17:07:40 2025
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QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	102	0.00
2		1,4-Dioxane	40.000	38.184	4.5	101	0.00
3		Pyridine	40.000	38.607	3.5	102	0.00
4		n-Nitrosodimethylamine	40.000	38.995	2.5	101	-0.02
5	S	2-Fluorophenol	80.000	75.157	6.1	101	0.00
6		Aniline	40.000	38.415	4.0	102	0.00
7	S	Phenol-d6	80.000	76.025	5.0	101	-0.01
8		2-Chlorophenol	40.000	37.902	5.2	100	0.00
9		Benzaldehyde	40.000	38.726	3.2	104	0.00
10	C	Phenol	40.000	38.362	4.1	103	-0.01
11		bis(2-Chloroethyl)ether	40.000	38.280	4.3	102	0.00
12		1,3-Dichlorobenzene	40.000	37.579	6.1	99	0.00
13	C	1,4-Dichlorobenzene	40.000	38.078	4.8	100	0.00
14		1,2-Dichlorobenzene	40.000	37.716	5.7	101	0.00
15		Benzyl Alcohol	40.000	38.663	3.3	102	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	37.927	5.2	101	0.00
17		2-Methylphenol	40.000	38.500	3.8	101	0.00
18		Hexachloroethane	40.000	38.137	4.7	101	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	37.833	5.4	101	-0.02
20		3+4-Methylphenols	40.000	38.020	4.9	101	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	102	0.00
22		Acetophenone	40.000	38.118	4.7	100	0.00
23	S	Nitrobenzene-d5	80.000	77.283	3.4	102	-0.01
24		Nitrobenzene	40.000	38.737	3.2	101	0.00
25		Isophorone	40.000	37.906	5.2	100	-0.01
26	C	2-Nitrophenol	40.000	39.958	0.1	103	0.00
27		2,4-Dimethylphenol	40.000	38.953	2.6	102	0.00
28		bis(2-Chloroethoxy)methane	40.000	38.407	4.0	103	0.00
29	C	2,4-Dichlorophenol	40.000	38.285	4.3	100	0.00
30		1,2,4-Trichlorobenzene	40.000	38.187	4.5	102	0.00
31		Naphthalene	40.000	38.112	4.7	102	0.00
32		Benzoic acid	40.000	40.490	-1.2	104	-0.04
33		4-Chloroaniline	40.000	38.962	2.6	102	0.00
34	C	Hexachlorobutadiene	40.000	38.512	3.7	101	0.00
35		Caprolactam	40.000	39.162	2.1	101	-0.02
36	C	4-Chloro-3-methylphenol	40.000	38.654	3.4	102	-0.01
37		2-Methylnaphthalene	40.000	38.062	4.8	102	0.00
38		1-Methylnaphthalene	40.000	38.229	4.4	102	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	103	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	37.508	6.2	101	0.00
41	P	Hexachlorocyclopentadiene	40.000	39.991	0.0	102	0.00
42	S	2,4,6-Tribromophenol	80.000	75.790	5.3	103	0.00
43	C	2,4,6-Trichlorophenol	40.000	37.954	5.1	102	0.00
44		2,4,5-Trichlorophenol	40.000	37.766	5.6	101	0.00
45	S	2-Fluorobiphenyl	80.000	72.557	9.3	101	0.00
46		1,1'-Biphenyl	40.000	37.487	6.3	102	0.00
47		2-Chloronaphthalene	40.000	37.763	5.6	102	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142475.D
Acq On : 20 May 2025 16:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Quant Time: May 20 17:07:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	38.867	2.8	103	0.00
49		Acenaphthylene	40.000	37.630	5.9	102	0.00
50		Dimethylphthalate	40.000	37.184	7.0	101	0.00
51		2,6-Dinitrotoluene	40.000	38.191	4.5	100	0.00
52	C	Acenaphthene	40.000	37.877	5.3	103	0.00
53		3-Nitroaniline	40.000	38.246	4.4	103	0.00
54	P	2,4-Dinitrophenol	40.000	41.481	-3.7	106	-0.01
55		Dibenzofuran	40.000	37.170	7.1	102	0.00
56	P	4-Nitrophenol	40.000	39.320	1.7	103	0.00
57		2,4-Dinitrotoluene	40.000	38.463	3.8	102	0.00
58		Fluorene	40.000	36.662	8.3	101	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	38.000	5.0	101	0.00
60		Diethylphthalate	40.000	37.844	5.4	102	0.00
61		4-Chlorophenyl-phenylether	40.000	36.985	7.5	101	0.00
62		4-Nitroaniline	40.000	38.132	4.7	100	-0.01
63		Azobenzene	40.000	37.780	5.5	102	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	102	0.00
65		4,6-Dinitro-2-methylphenol	40.000	42.334	-5.8	104	0.00
66	c	n-Nitrosodiphenylamine	40.000	38.132	4.7	102	0.00
67		4-Bromophenyl-phenylether	40.000	38.189	4.5	103	0.00
68		Hexachlorobenzene	40.000	38.554	3.6	102	0.00
69		Atrazine	40.000	39.541	1.1	103	0.00
70	C	Pentachlorophenol	40.000	40.866	-2.2	104	0.00
71		Phenanthrene	40.000	37.478	6.3	101	0.00
72		Anthracene	40.000	38.032	4.9	102	0.00
73		Carbazole	40.000	38.300	4.3	102	0.00
74		Di-n-butylphthalate	40.000	38.596	3.5	103	0.00
75	C	Fluoranthene	40.000	37.479	6.3	101	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	102	0.00
77		Benzidine	40.000	42.525	-6.3	101	0.00
78		Pyrene	40.000	40.108	-0.3	102	0.00
79	S	Terphenyl-d14	80.000	77.714	2.9	101	0.00
80		Butylbenzylphthalate	40.000	40.275	-0.7	100	0.00
81		Benzo(a)anthracene	40.000	37.981	5.0	101	0.00
82		3,3'-Dichlorobenzidine	40.000	38.874	2.8	98	0.00
83		Chrysene	40.000	37.768	5.6	100	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	40.596	-1.5	101	0.00
85	c	Di-n-octyl phthalate	40.000	40.048	-0.1	104	0.00
86	I	Perylene-d12	20.000	20.000	0.0	104	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	39.070	2.3	105	-0.01
88		Benzo(b)fluoranthene	40.000	37.396	6.5	102	0.00
89		Benzo(k)fluoranthene	40.000	37.255	6.9	103	0.00
90	C	Benzo(a)pyrene	40.000	38.578	3.6	103	0.00
91		Dibenzo(a,h)anthracene	40.000	38.868	2.8	103	-0.02
92		Benzo(g,h,i)perylene	40.000	38.345	4.1	102	-0.02

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142475.D
Acq On : 20 May 2025 16:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF052025

Quant Time: May 20 17:07:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

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

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

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG No.: Q2074

Instrument ID: BNA_F Calibration Date/Time: 05/21/2025 10:40

Lab File ID: BF142478.D Init. Calib. Date(s): 05/20/2025 05/20/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:10 15:31

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.187	1.087		-8.4	
Benzaldehyde	0.859	0.796		-7.3	
Phenol-d6	1.429	1.358		-5.0	
Phenol	1.608	1.558		-3.1	20.0
bis(2-Chloroethyl)ether	1.157	1.067		-7.8	
2-Chlorophenol	1.293	1.186		-8.3	
2-Methylphenol	1.010	0.970		-4.0	
2,2-oxybis(1-Chloropropane)	1.944	1.877		-3.4	
Acetophenone	0.443	0.405		-8.6	
3+4-Methylphenols	1.293	1.183		-8.5	
n-Nitroso-di-n-propylamine	0.886	0.800	0.050	-9.7	
Nitrobenzene-d5	0.367	0.343		-6.5	
Hexachloroethane	0.507	0.456		-10.1	
Nitrobenzene	0.331	0.317		-4.2	
Isophorone	0.613	0.568		-7.3	
2-Nitrophenol	0.177	0.174		-1.7	20.0
2,4-Dimethylphenol	0.312	0.300		-3.8	
bis(2-Chloroethoxy)methane	0.383	0.364		-5.0	
2,4-Dichlorophenol	0.283	0.278		-1.8	20.0
Naphthalene	0.985	0.928		-5.8	
4-Chloroaniline	0.399	0.393		-1.5	
Hexachlorobutadiene	0.192	0.182		-5.2	20.0
Caprolactam	0.080	0.084		5.0	
4-Chloro-3-methylphenol	0.291	0.287		-1.4	20.0
2-Methylnaphthalene	0.620	0.570		-8.1	
Hexachlorocyclopentadiene	0.387	0.381	0.050	-1.5	
2,4,6-Trichlorophenol	0.387	0.383		-1.0	20.0
2-Fluorobiphenyl	1.490	1.373		-7.9	
2,4,5-Trichlorophenol	0.408	0.396		-2.9	
1,1-Biphenyl	1.552	1.477		-4.8	
2-Chloronaphthalene	1.146	1.098		-4.2	
2-Nitroaniline	0.331	0.331		0.0	
Dimethylphthalate	1.320	1.241		-6.0	
Acenaphthylene	1.936	1.795		-7.3	
2,6-Dinitrotoluene	0.285	0.278		-2.5	
3-Nitroaniline	0.311	0.312		0.3	
Acenaphthene	1.182	1.125		-4.8	20.0
2,4-Dinitrophenol	0.147	0.159	0.050	8.2	
4-Nitrophenol	0.230	0.243	0.050	5.7	

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG No.: Q2074

Instrument ID: BNA_F Calibration Date/Time: 05/21/2025 10:40

Lab File ID: BF142478.D Init. Calib. Date(s): 05/20/2025 05/20/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:10 15:31

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.701	1.672		-1.7	
2,4-Dinitrotoluene	0.372	0.383		3.0	
Diethylphthalate	1.289	1.286		-0.2	
4-Chlorophenyl-phenylether	0.646	0.606		-6.2	
Fluorene	1.314	1.229		-6.5	
4-Nitroaniline	0.282	0.296		5.0	
4,6-Dinitro-2-methylphenol	0.112	0.119		6.3	
n-Nitrosodiphenylamine	0.684	0.641		-6.3	20.0
2,4,6-Tribromophenol	0.222	0.225		1.4	
4-Bromophenyl-phenylether	0.236	0.219		-7.2	
Hexachlorobenzene	0.262	0.247		-5.7	
Atrazine	0.182	0.186		2.2	
Pentachlorophenol	0.148	0.153		3.4	20.0
Phenanthrene	1.069	0.989		-7.5	
Anthracene	1.091	1.022		-6.3	
Carbazole	0.933	0.929		-0.4	
Di-n-butylphthalate	1.021	1.084		6.2	
Fluoranthene	0.999	0.984		-1.5	20.0
Pyrene	1.866	1.932		3.5	
Terphenyl-d14	1.464	1.466		0.1	
Butylbenzylphthalate	0.516	0.570		10.5	
3,3-Dichlorobenzidine	0.405	0.387		-4.4	
Benzo(a)anthracene	1.336	1.289		-3.5	
Chrysene	1.200	1.116		-7.0	
Bis(2-ethylhexyl)phthalate	0.660	0.620		-6.1	
Di-n-octyl phthalate	1.290	1.049		-18.7	20.0
Benzo(b)fluoranthene	1.184	1.216		2.7	
Benzo(k)fluoranthene	1.109	0.996		-10.2	
Benzo(a)pyrene	1.116	1.061		-4.9	20.0
Indeno(1,2,3-cd)pyrene	1.501	1.409		-6.1	
Dibenzo(a,h)anthracene	1.218	1.156		-5.1	
Benzo(g,h,i)perylene	1.218	1.202		-1.3	
1,2,4,5-Tetrachlorobenzene	0.574	0.545		-5.1	
1,4-Dioxane	0.475	0.429		-9.7	20.0
2,3,4,6-Tetrachlorophenol	0.341	0.346		1.5	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142478.D
Acq On : 21 May 2025 10:40
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: May 21 11:22:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	124102	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	475212	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	258765	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	454448	20.000	ng	0.00
76) Chrysene-d12	14.068	240	231233	20.000	ng	0.00
86) Perylene-d12	15.562	264	233183	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	539569	73.250	ng	0.00
7) Phenol-d6	6.522	99	674188	76.032	ng	-0.01
23) Nitrobenzene-d5	7.463	82	651420	74.748	ng	-0.01
42) 2,4,6-Tribromophenol	10.733	330	232567	80.978	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	1421641	73.721	ng	0.00
79) Terphenyl-d14	13.016	244	1355714	80.120	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.669	88	106378	36.089	ng	98
3) Pyridine	3.434	79	276510	36.837	ng	100
4) n-Nitrosodimethylamine	3.387	42	141405	36.282	ng	93
6) Aniline	6.563	93	465531	39.046	ng	100
8) 2-Chlorophenol	6.681	128	294286	36.679	ng	98
9) Benzaldehyde	6.451	77	197628	37.056	ng	99
10) Phenol	6.540	94	386626	38.750	ng	98
11) bis(2-Chloroethyl)ether	6.634	93	264781	36.867	ng	99
12) 1,3-Dichlorobenzene	6.839	146	332360	37.123	ng	99
13) 1,4-Dichlorobenzene	6.916	146	340844	37.795	ng	99
14) 1,2-Dichlorobenzene	7.069	146	325755	37.749	ng	99
15) Benzyl Alcohol	7.039	79	246740	37.654	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.175	45	465944	38.632	ng	100
17) 2-Methylphenol	7.145	107	240807	38.442	ng	99
18) Hexachloroethane	7.416	117	113080	35.909	ng	98
19) n-Nitroso-di-n-propyla...	7.310	70	198454	36.112	ng	100
20) 3+4-Methylphenols	7.304	107	293565	36.596	ng	98
22) Acetophenone	7.310	105	384928	36.591	ng	100
24) Nitrobenzene	7.487	77	301561	38.366	ng	100
25) Isophorone	7.722	82	539792	37.046	ng	99
26) 2-Nitrophenol	7.798	139	165491	39.404	ng	98
27) 2,4-Dimethylphenol	7.834	122	284888	38.464	ng	99
28) bis(2-Chloroethoxy)met...	7.934	93	346347	38.052	ng	100
29) 2,4-Dichlorophenol	8.039	162	264622	39.287	ng	99
30) 1,2,4-Trichlorobenzene	8.128	180	276712	37.854	ng	98
31) Naphthalene	8.210	128	882389	37.710	ng	100
32) Benzoic acid	7.939	122	185594	41.165	ng	97
33) 4-Chloroaniline	8.251	127	373200	39.361	ng	99
34) Hexachlorobutadiene	8.322	225	173096	37.923	ng	99
35) Caprolactam	8.622	113	79814	42.190	ng	98
36) 4-Chloro-3-methylphenol	8.728	107	272961	39.543	ng	99
37) 2-Methylnaphthalene	8.898	142	541505	36.785	ng	100
38) 1-Methylnaphthalene	8.998	142	573711	37.677	ng	99
40) 1,2,4,5-Tetrachloroben...	9.063	216	281896	37.950	ng	100
41) Hexachlorocyclopentadiene	9.051	237	197231	39.361	ng	99
43) 2,4,6-Trichlorophenol	9.175	196	198391	39.608	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142478.D
Acq On : 21 May 2025 10:40
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: May 21 11:22:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

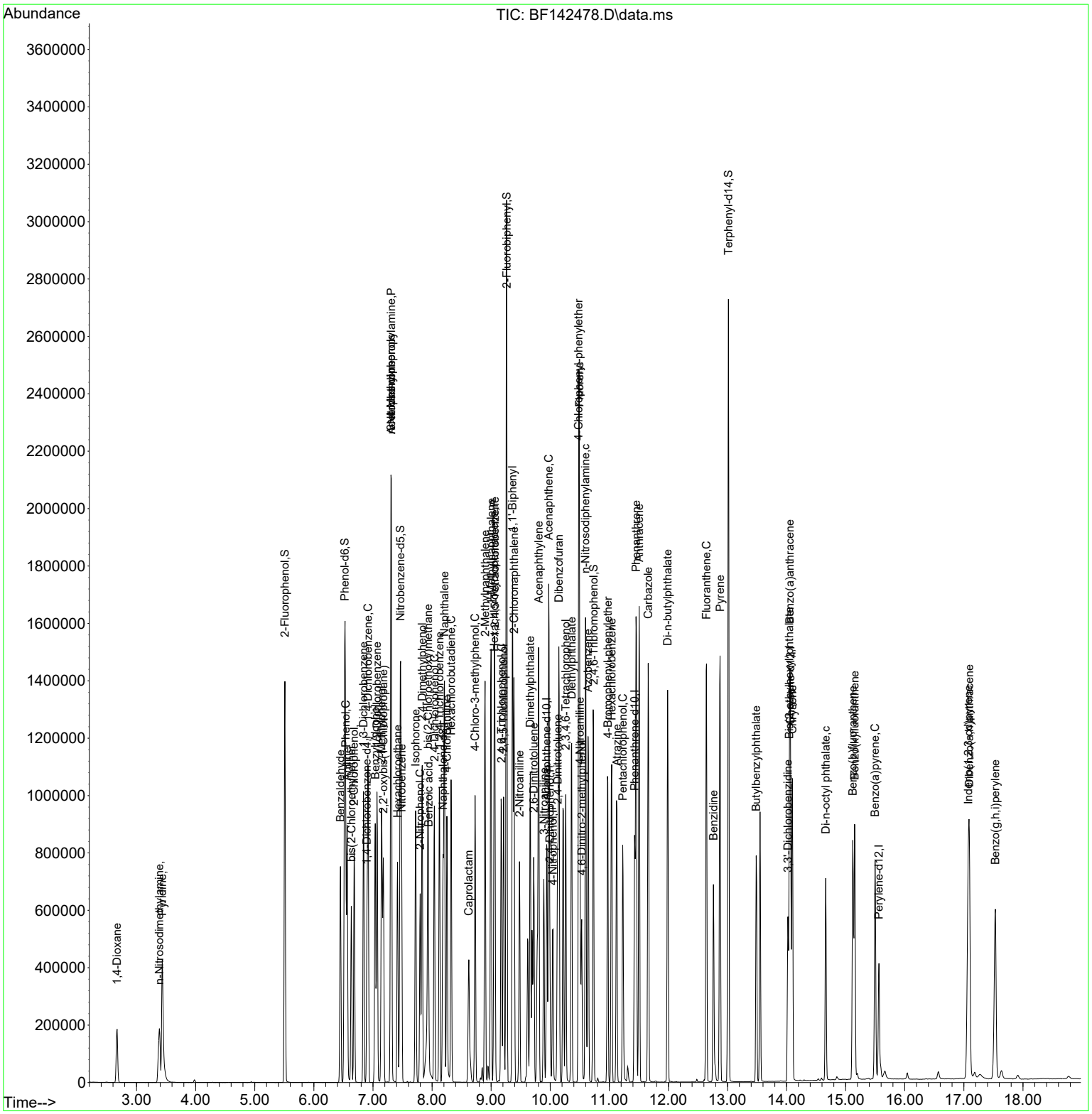
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	205060	38.818	ng		99
46) 1,1'-Biphenyl	9.363	154	764423	38.077	ng		100
47) 2-Chloronaphthalene	9.386	162	568213	38.309	ng		99
48) 2-Nitroaniline	9.480	65	171415	39.983	ng		98
49) Acenaphthylene	9.804	152	929079	37.095	ng		100
50) Dimethylphthalate	9.663	163	642337	37.620	ng		99
51) 2,6-Dinitrotoluene	9.722	165	143720	39.000	ng		100
52) Acenaphthene	9.975	154	582417	38.082	ng		98
53) 3-Nitroaniline	9.892	138	161621	40.154	ng		99
54) 2,4-Dinitrophenol	9.992	184	82111	43.128	ng	#	50
55) Dibenzofuran	10.145	168	865331	39.319	ng		99
56) 4-Nitrophenol	10.045	139	125889	42.389	ng		99
57) 2,4-Dinitrotoluene	10.128	165	198299	41.203	ng		99
58) Fluorene	10.492	166	636236	37.421	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.263	232	178973	40.584	ng		100
60) Diethylphthalate	10.363	149	665684	39.920	ng		99
61) 4-Chlorophenyl-phenyle...	10.480	204	313464	37.531	ng		99
62) 4-Nitroaniline	10.504	138	153079	41.934	ng		98
63) Azobenzene	10.639	77	600280	40.078	ng		99
65) 4,6-Dinitro-2-methylph...	10.533	198	108376	42.732	ng		99
66) n-Nitrosodiphenylamine	10.598	169	582997	37.498	ng		99
67) 4-Bromophenyl-phenylether	10.975	248	199315	37.092	ng		98
68) Hexachlorobenzene	11.039	284	224843	37.832	ng		99
69) Atrazine	11.127	200	169442	41.037	ng		100
70) Pentachlorophenol	11.227	266	139087	41.451	ng		99
71) Phenanthrene	11.451	178	899035	37.018	ng		99
72) Anthracene	11.504	178	929254	37.490	ng		100
73) Carbazole	11.657	167	844734	39.865	ng		99
74) Di-n-butylphthalate	11.986	149	985689	42.497	ng		100
75) Fluoranthene	12.645	202	894775	39.429	ng		99
77) Benzidine	12.763	184	403570	46.900	ng		99
78) Pyrene	12.874	202	893560	41.425	ng		99
80) Butylbenzylphthalate	13.486	149	263643	44.233	ng		100
81) Benzo(a)anthracene	14.057	228	596289	38.618	ng		99
82) 3,3'-Dichlorobenzidine	14.021	252	179108	38.244	ng		99
83) Chrysene	14.098	228	516059	37.195	ng		100
84) Bis(2-ethylhexyl)phtha...	14.045	149	286630	37.565	ng		99
85) Di-n-octyl phthalate	14.663	149	485024	32.510	ng		100
87) Indeno(1,2,3-cd)pyrene	17.074	276	657271	37.546	ng		100
88) Benzo(b)fluoranthene	15.121	252	566876	41.075	ng		99
89) Benzo(k)fluoranthene	15.151	252	464361	35.924	ng		99
90) Benzo(a)pyrene	15.498	252	494710	38.029	ng		99
91) Dibenzo(a,h)anthracene	17.092	278	539033	37.965	ng		98
92) Benzo(g,h,i)perylene	17.533	276	560492	39.468	ng		99

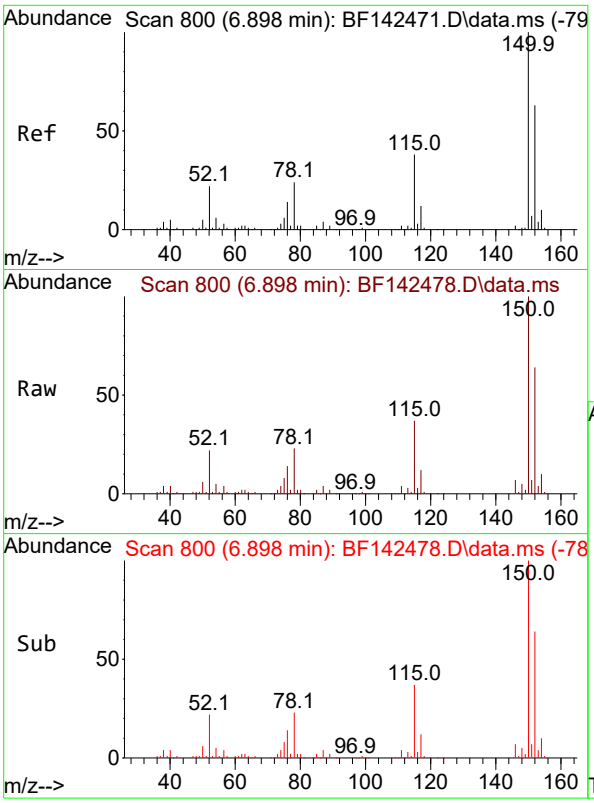
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142478.D
Acq On : 21 May 2025 10:40
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: May 21 11:22:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



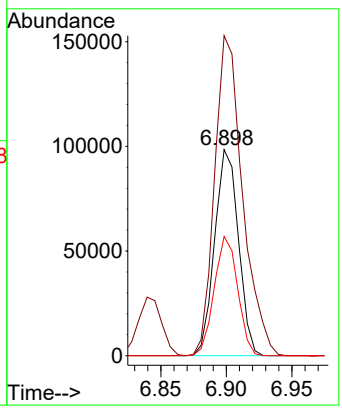


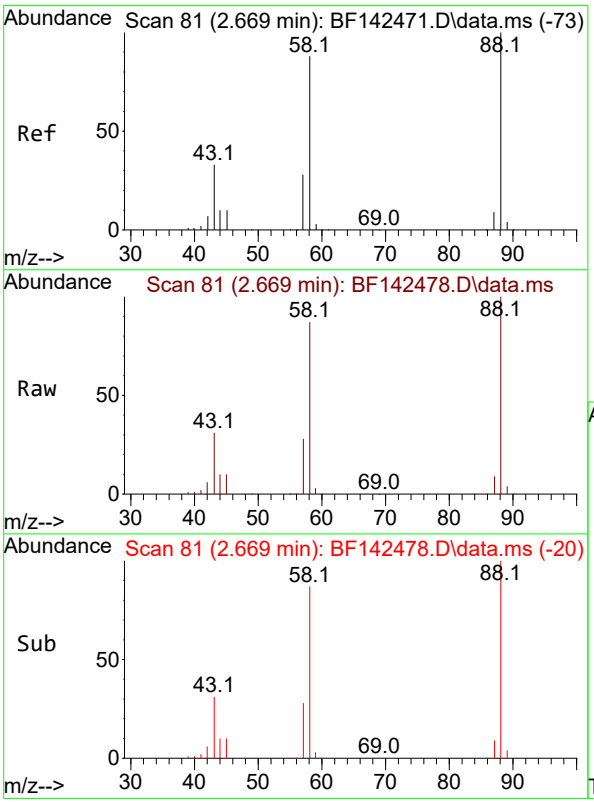
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 124102

Ion	Ratio	Lower	Upper
152	100		
150	155.3	128.2	192.4
115	57.8	48.3	72.5

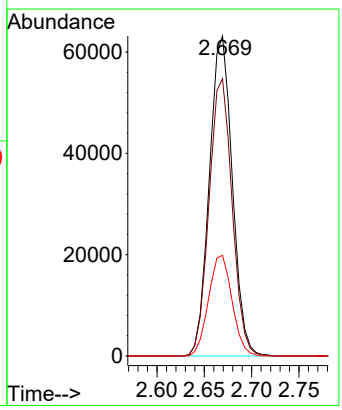


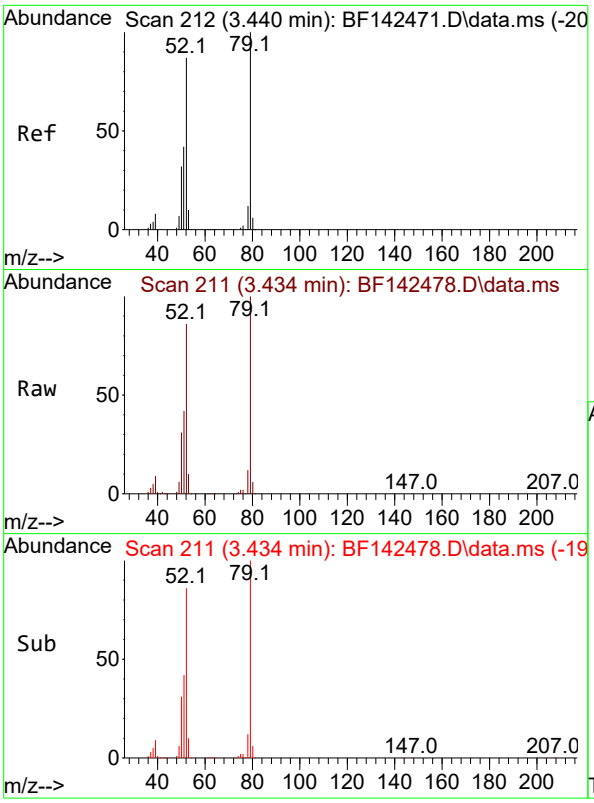


#2
1,4-Dioxane
Concen: 36.089 ng
RT: 2.669 min Scan# 81
Delta R.T. 0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion: 88 Resp: 106378

Ion	Ratio	Lower	Upper
88	100		
58	87.0	70.8	106.2
43	32.3	26.6	40.0



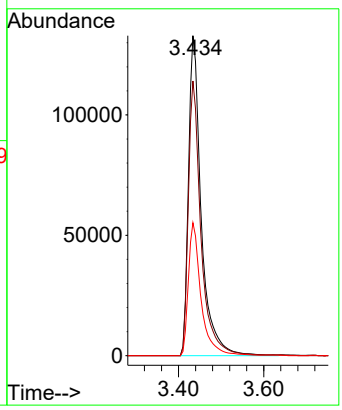


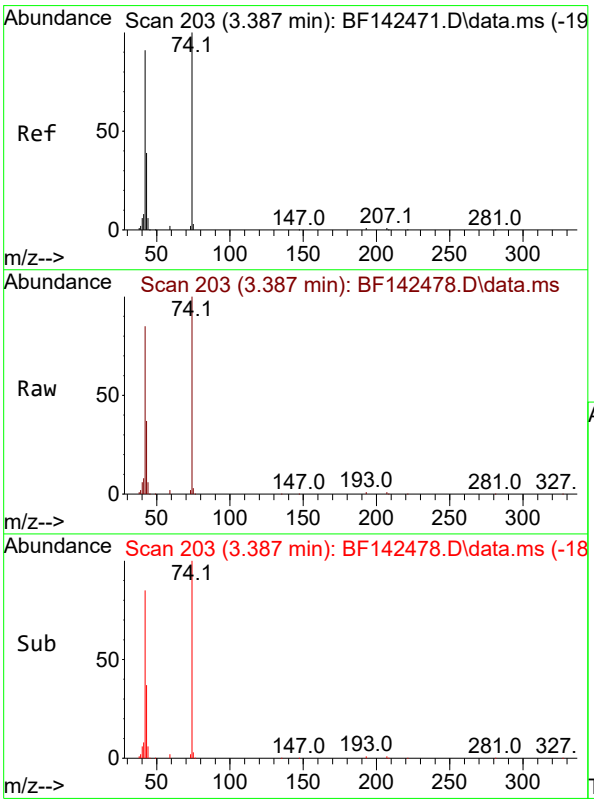
#3
Pyridine
Concen: 36.837 ng
RT: 3.434 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 276510

Ion	Ratio	Lower	Upper
79	100		
52	85.8	69.2	103.8
51	41.6	33.3	49.9

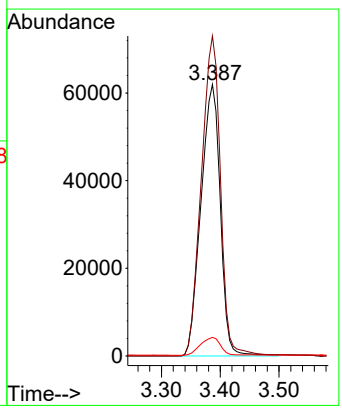


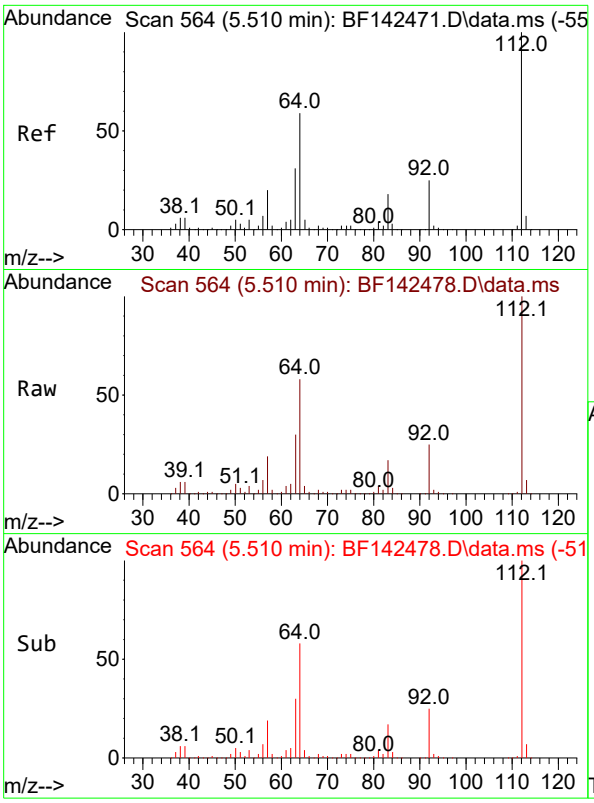


#4
n-Nitrosodimethylamine
Concen: 36.282 ng
RT: 3.387 min Scan# 203
Delta R.T. -0.018 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion: 42 Resp: 141405

Ion	Ratio	Lower	Upper
42	100		
74	117.9	88.2	132.4
44	6.9	5.4	8.2



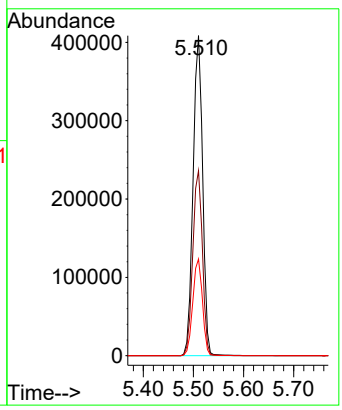


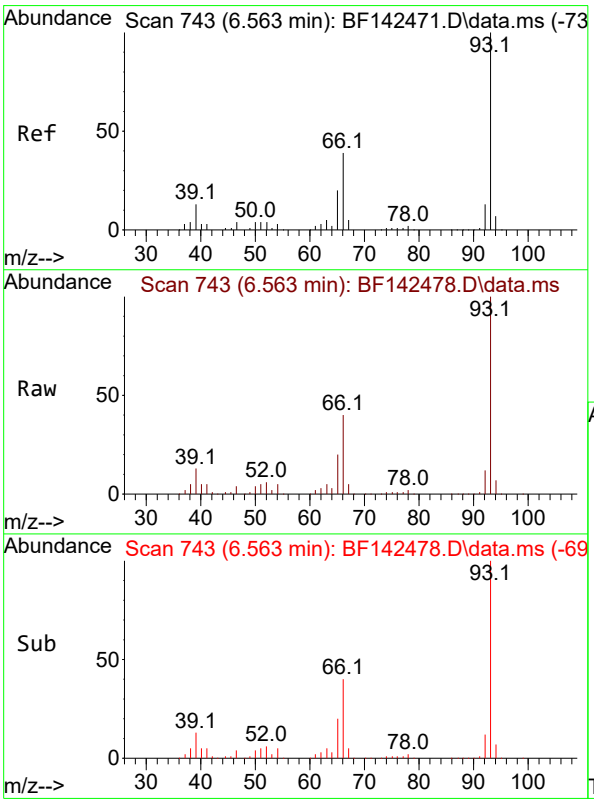
#5
2-Fluorophenol
Concen: 73.250 ng
RT: 5.510 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 539569

Ion	Ratio	Lower	Upper
112	100		
64	57.8	47.5	71.3
63	30.2	24.9	37.3

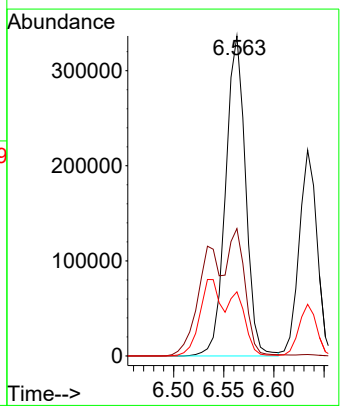


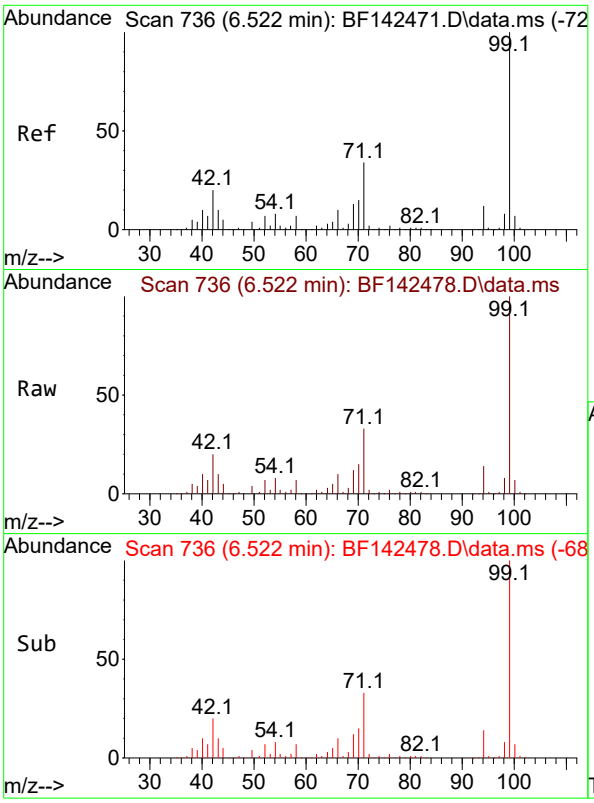


#6
Aniline
Concen: 39.046 ng
RT: 6.563 min Scan# 743
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion: 93 Resp: 465531

Ion	Ratio	Lower	Upper
93	100		
66	39.8	32.0	48.0
65	20.0	16.1	24.1



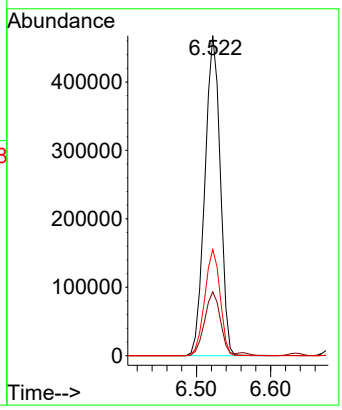


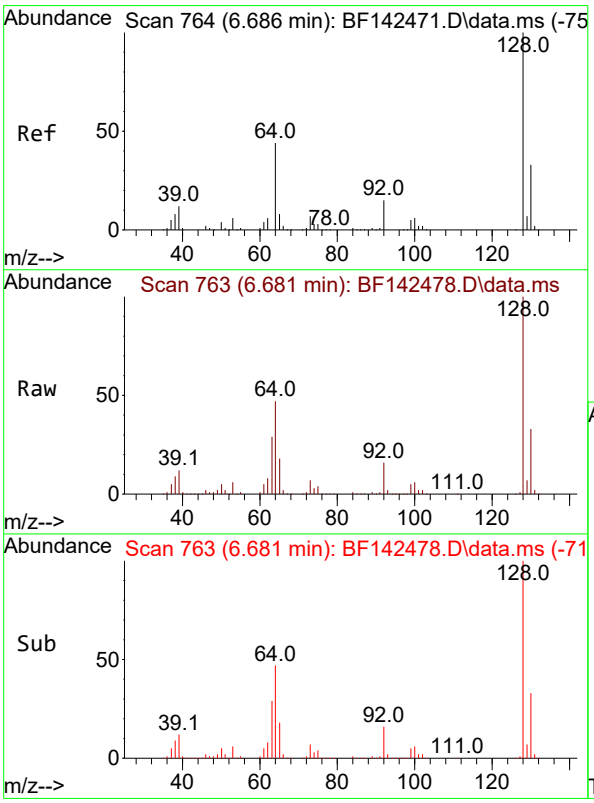
#7
Phenol-d6
Concen: 76.032 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 674188

Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.2	24.2
71	33.2	27.3	40.9

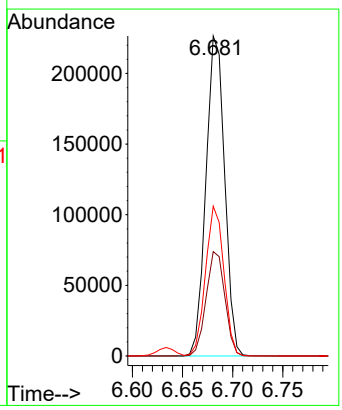


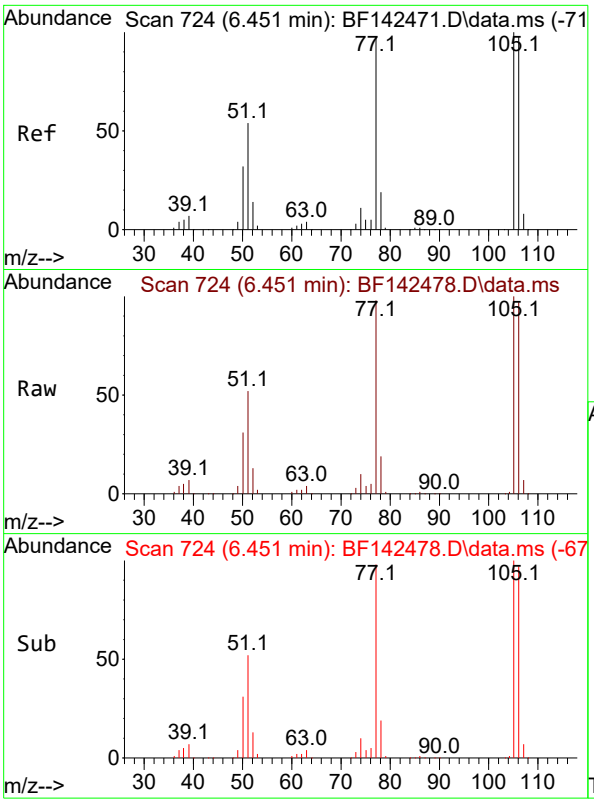


#8
2-Chlorophenol
Concen: 36.679 ng
RT: 6.681 min Scan# 763
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:128 Resp: 294286

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.6	52.6
64	46.8	25.1	65.1



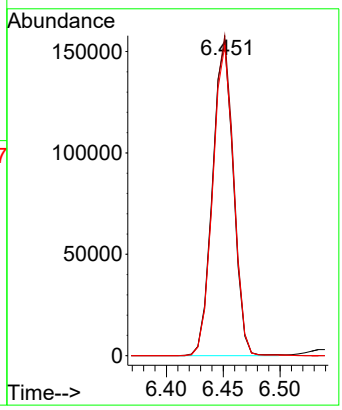


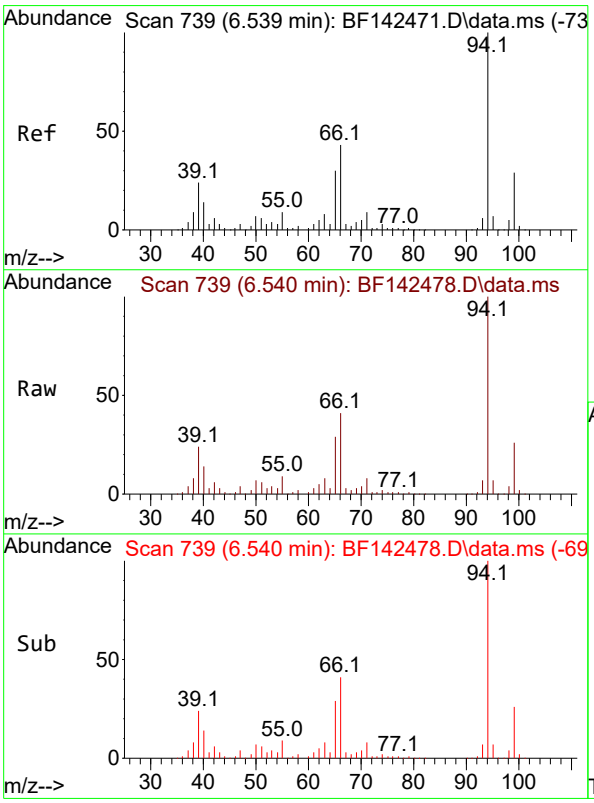
#9
Benzaldehyde
Concen: 37.056 ng
RT: 6.451 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 197628

Ion	Ratio	Lower	Upper
77	100		
105	102.2	82.5	122.5
106	99.0	80.0	120.0

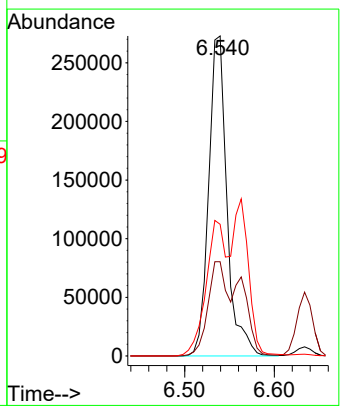


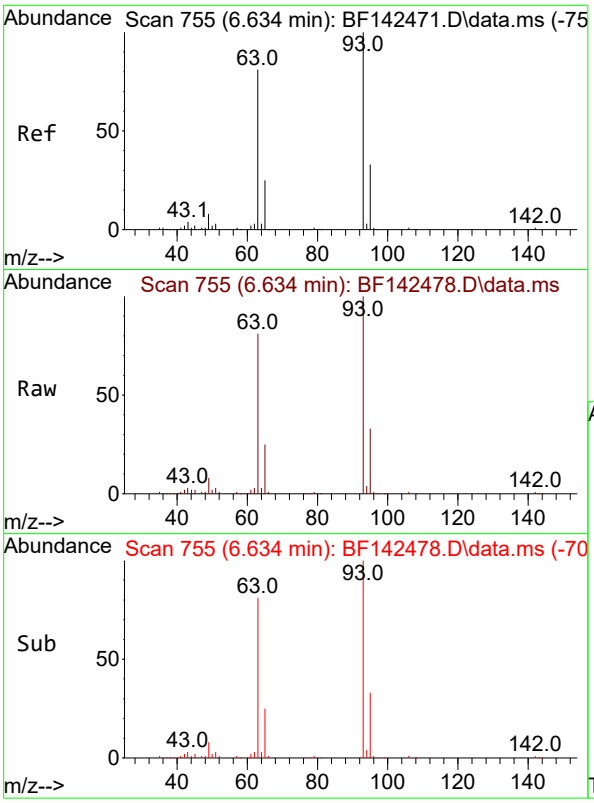


#10
Phenol
Concen: 38.750 ng
RT: 6.540 min Scan# 739
Delta R.T. -0.012 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion: 94 Resp: 386626

Ion	Ratio	Lower	Upper
94	100		
65	29.4	10.3	50.3
66	41.2	22.6	62.6



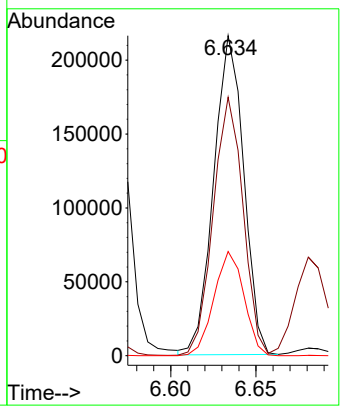


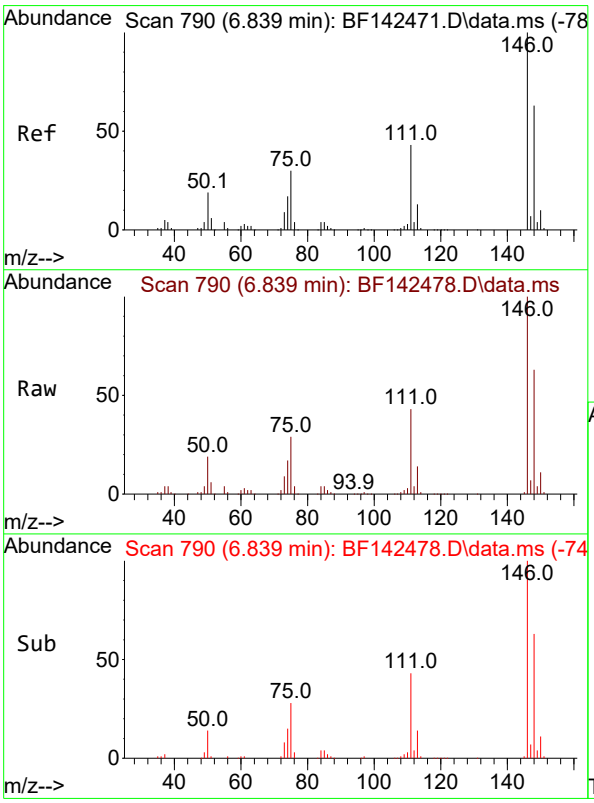
#11
bis(2-Chloroethyl)ether
Concen: 36.867 ng
RT: 6.634 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 264781

Ion	Ratio	Lower	Upper
93	100		
63	80.8	60.2	100.2
95	32.5	12.3	52.3

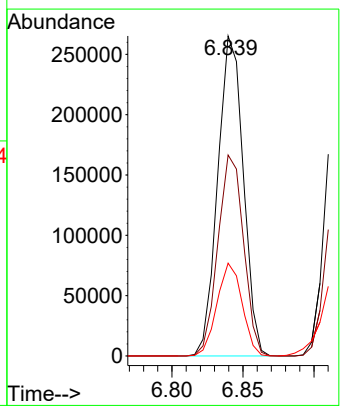


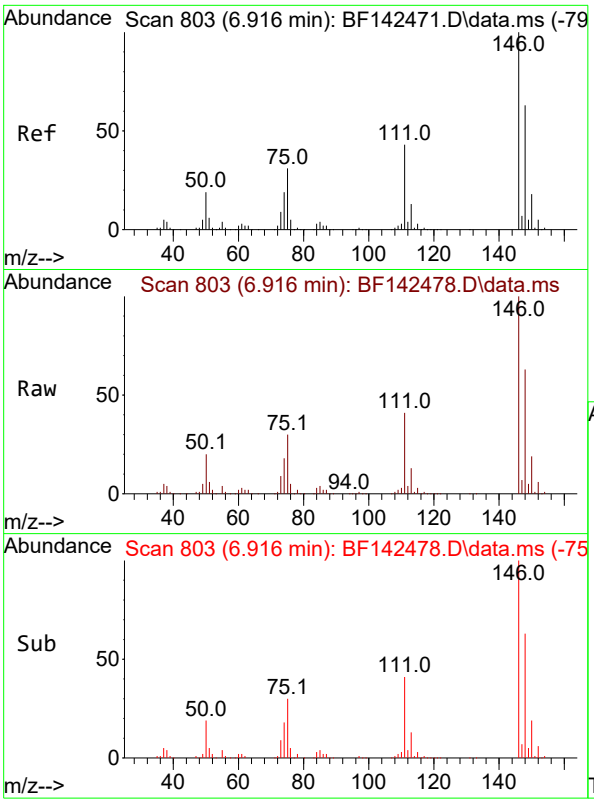


#12
1,3-Dichlorobenzene
Concen: 37.123 ng
RT: 6.839 min Scan# 790
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:146 Resp: 332360

Ion	Ratio	Lower	Upper
146	100		
148	62.8	50.6	75.8
75	29.0	23.8	35.6



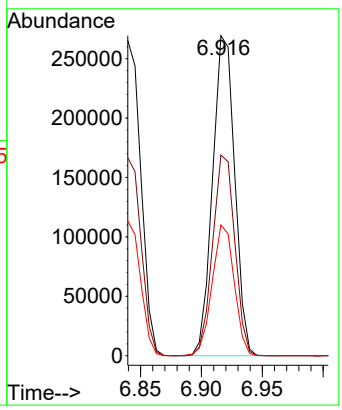


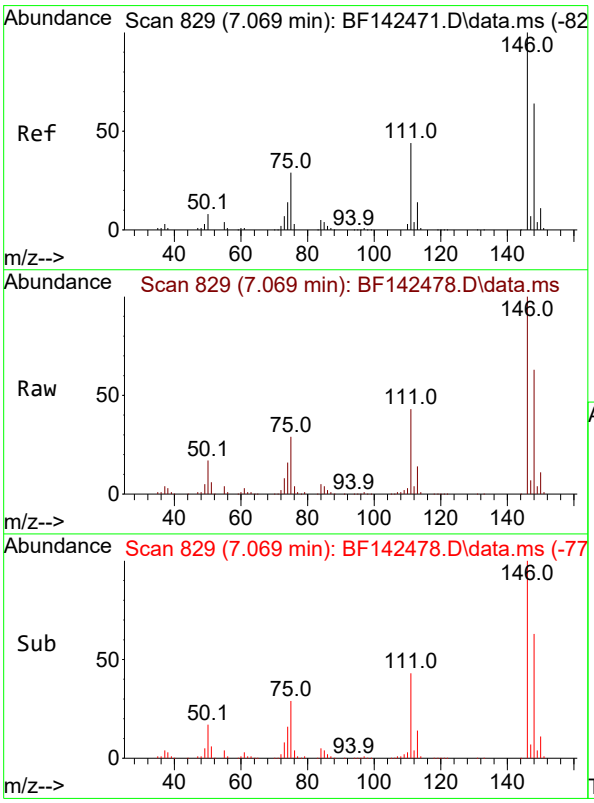
#13
1,4-Dichlorobenzene
Concen: 37.795 ng
RT: 6.916 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 340844

Ion	Ratio	Lower	Upper
146	100		
148	62.7	50.4	75.6
111	40.8	34.1	51.1

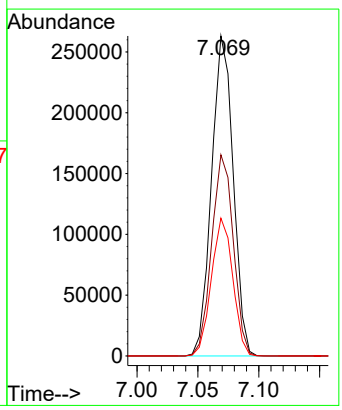


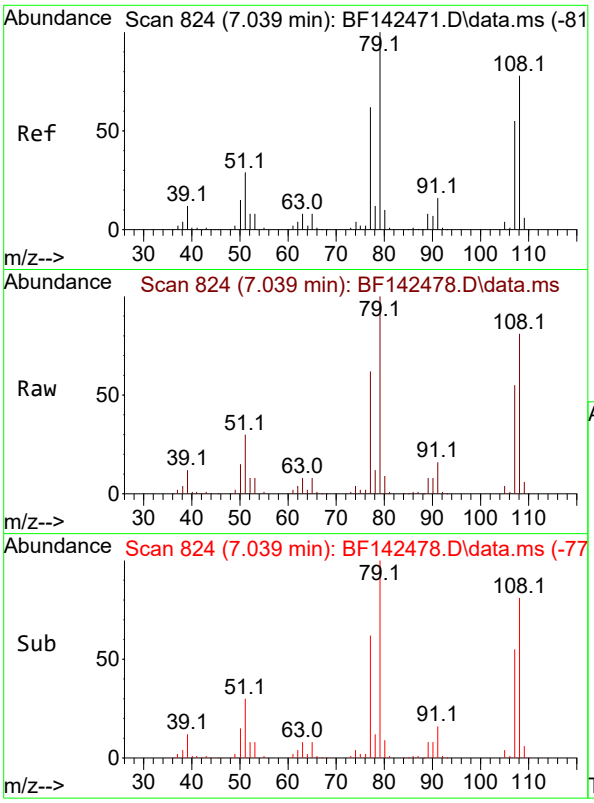


#14
1,2-Dichlorobenzene
Concen: 37.749 ng
RT: 7.069 min Scan# 829
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:146 Resp: 325755

Ion	Ratio	Lower	Upper
146	100		
148	62.8	51.0	76.4
111	43.0	35.0	52.6



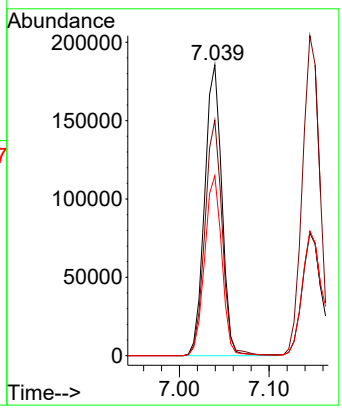


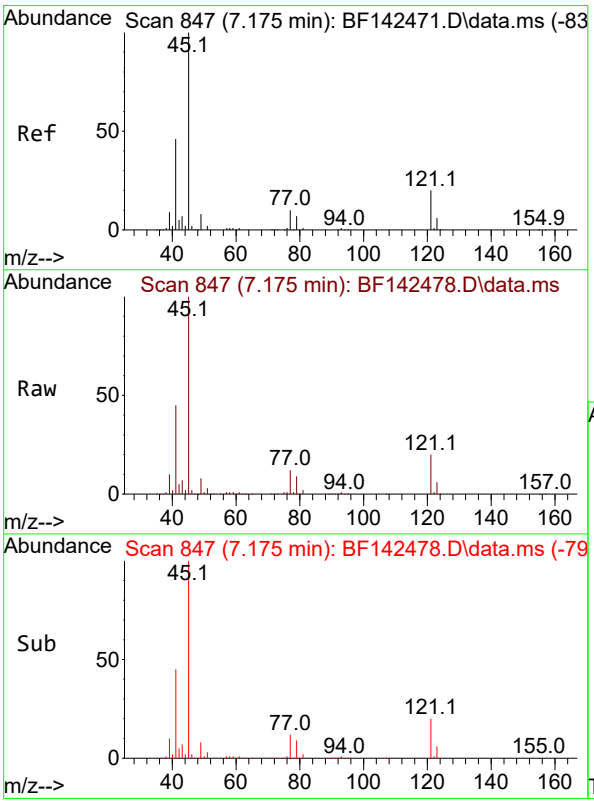
#15
Benzyl Alcohol
Concen: 37.654 ng
RT: 7.039 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 246740

Ion	Ratio	Lower	Upper
79	100		
108	81.0	62.1	93.1
77	61.9	49.5	74.3

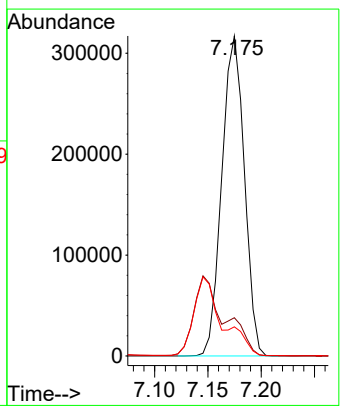


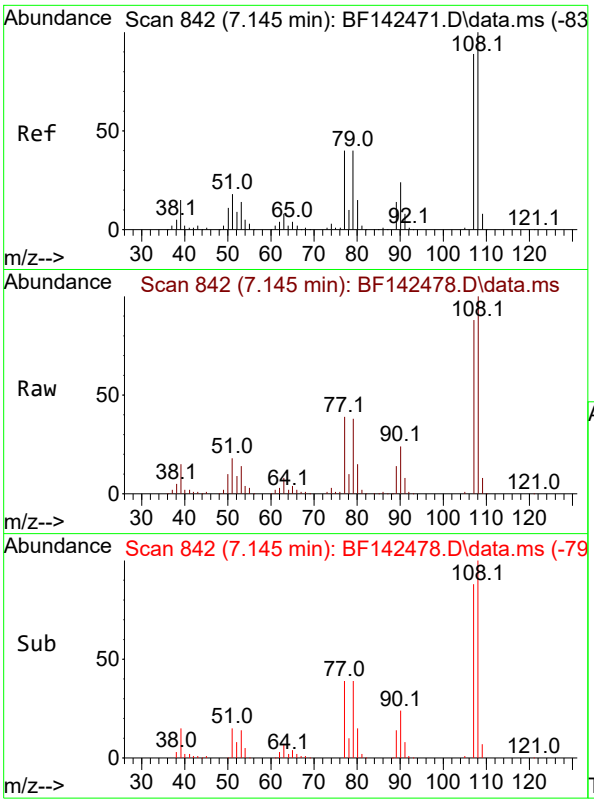


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.632 ng
RT: 7.175 min Scan# 847
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion: 45 Resp: 465944

Ion	Ratio	Lower	Upper
45	100		
77	12.0	0.0	32.0
79	9.1	0.0	29.2



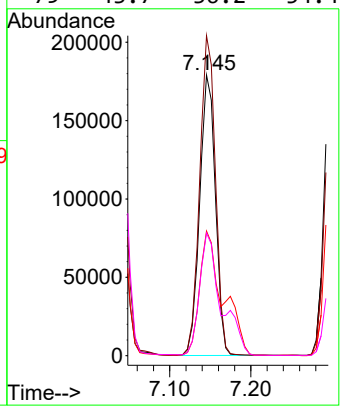


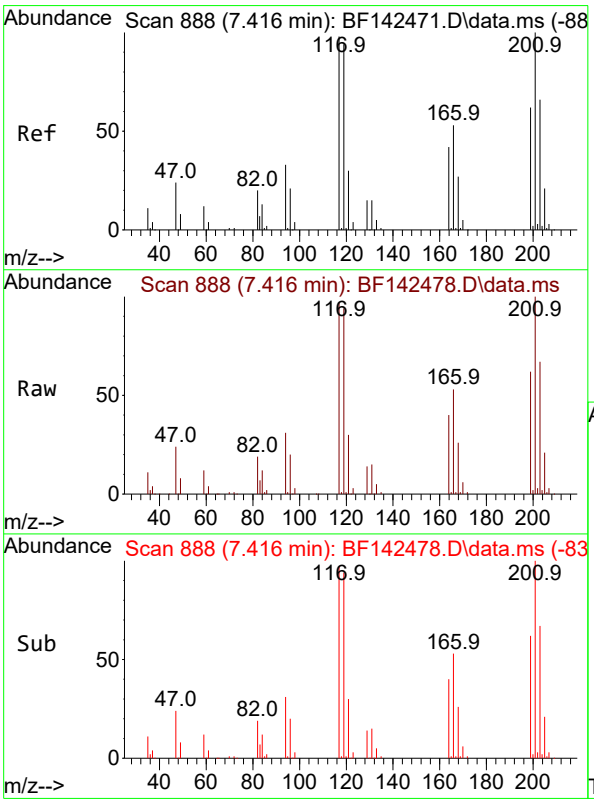
#17
2-Methylphenol
Concen: 38.442 ng
RT: 7.145 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 240807

Ion	Ratio	Lower	Upper
107	100		
108	114.0	90.2	135.2
77	44.4	36.1	54.1
79	43.7	36.2	54.4

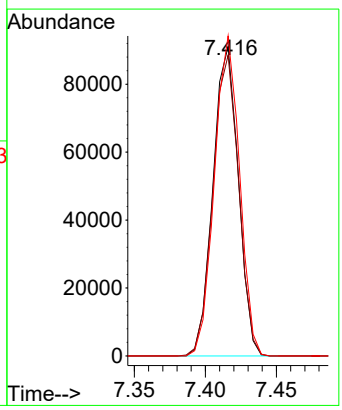


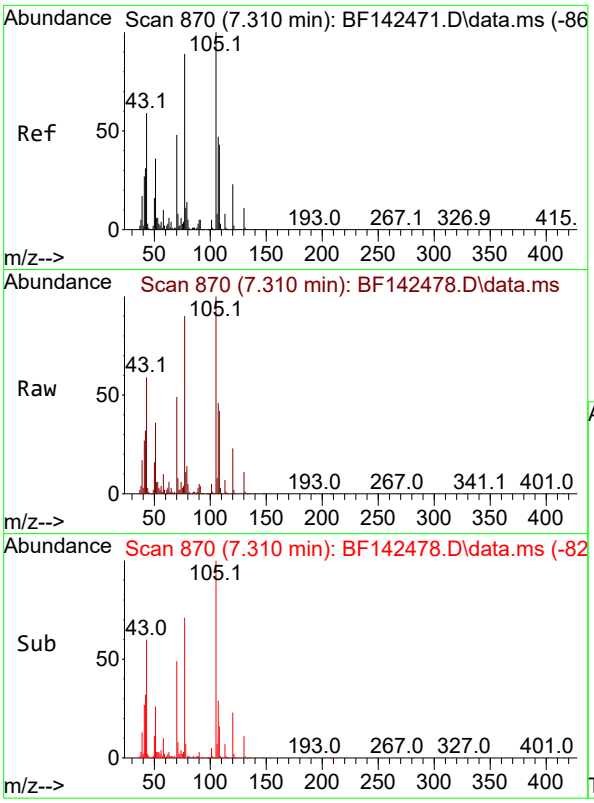


#18
Hexachloroethane
Concen: 35.909 ng
RT: 7.416 min Scan# 888
Delta R.T. 0.000 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:117 Resp: 113080

Ion	Ratio	Lower	Upper
117	100		
119	97.2	76.6	114.8
201	103.4	81.3	121.9



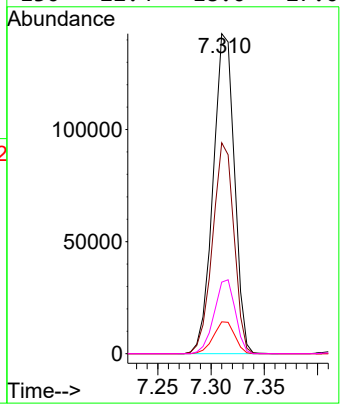


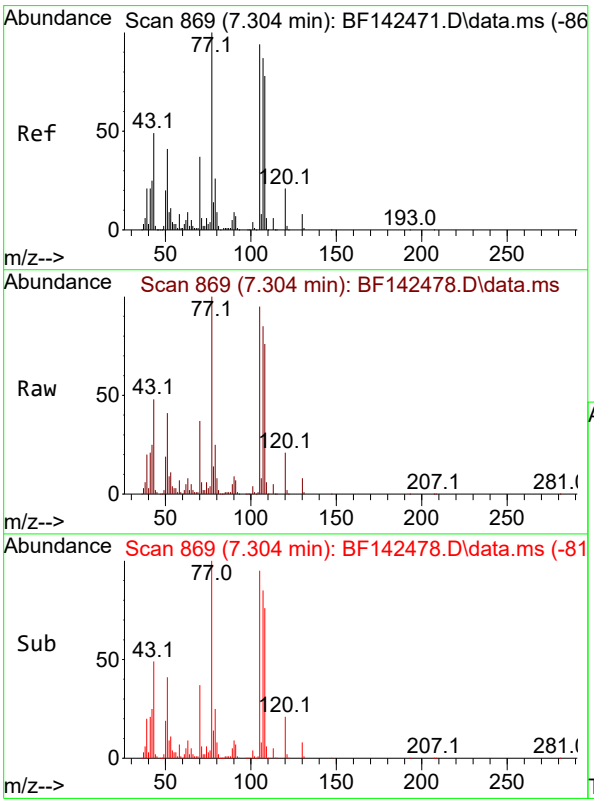
#19
n-Nitroso-di-n-propylamine
Concen: 36.112 ng
RT: 7.310 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 198454

Ion	Ratio	Lower	Upper
70	100		
42	65.9	52.4	78.6
101	9.9	7.8	11.8
130	22.4	18.0	27.0

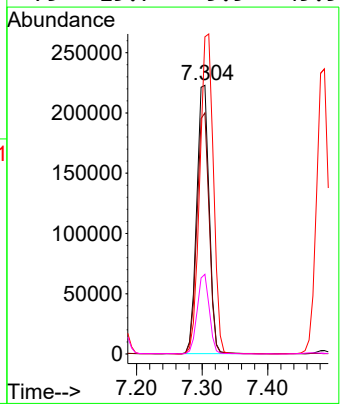


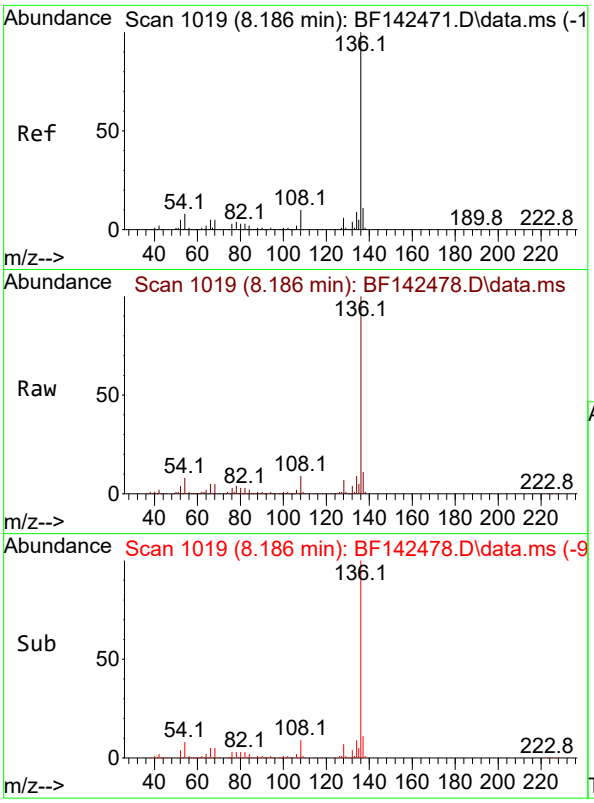


#20
3+4-Methylphenols
Concen: 36.596 ng
RT: 7.304 min Scan# 869
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:107 Resp: 293565

Ion	Ratio	Lower	Upper
107	100		
108	89.8	70.4	110.4
77	118.0	95.4	135.4
79	29.7	9.9	49.9



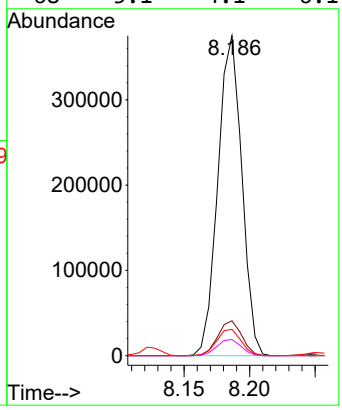


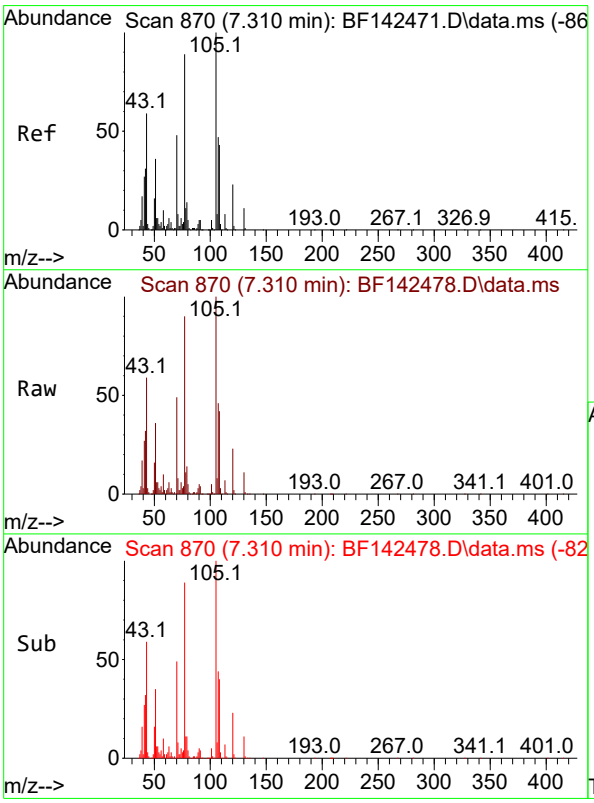
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 475212

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.3	6.6	10.0
68	5.1	4.1	6.1

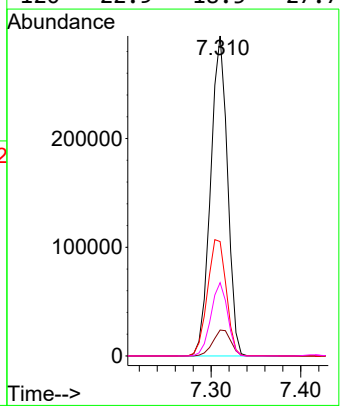


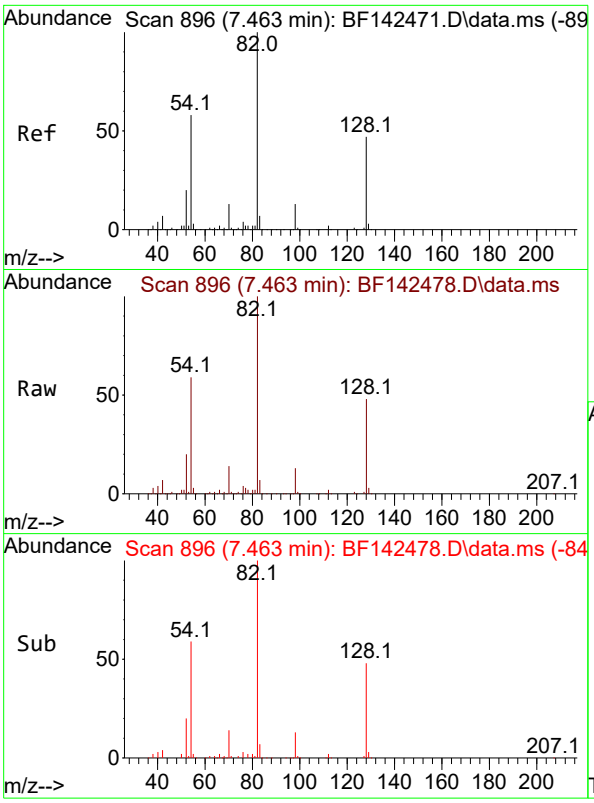


#22
Acetophenone
Concen: 36.591 ng
RT: 7.310 min Scan# 870
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:105 Resp: 384928

Ion	Ratio	Lower	Upper
105	100		
71	8.1	6.4	9.6
51	35.8	28.6	42.8
120	22.9	18.5	27.7



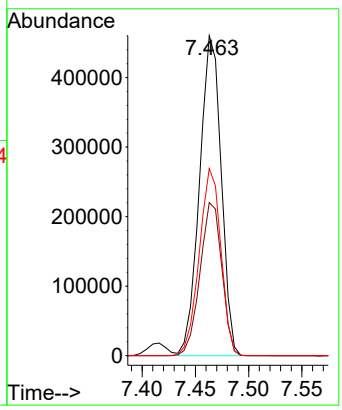


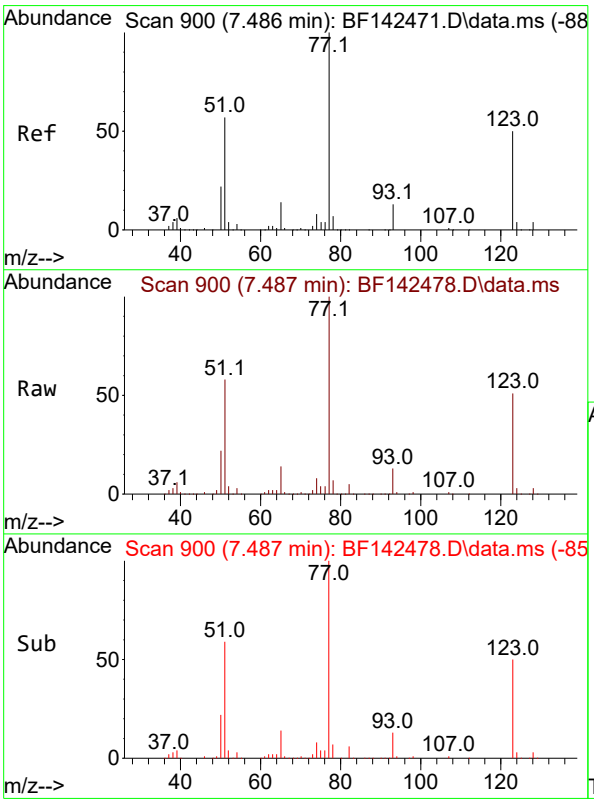
#23
Nitrobenzene-d5
Concen: 74.748 ng
RT: 7.463 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 651420

Ion	Ratio	Lower	Upper
82	100		
128	47.9	37.4	56.2
54	58.5	46.6	70.0

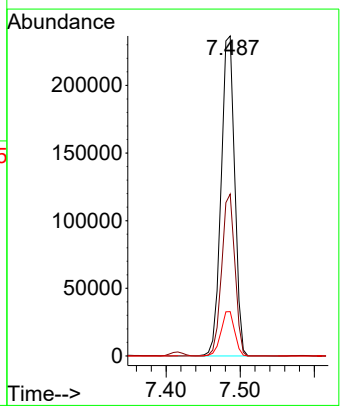


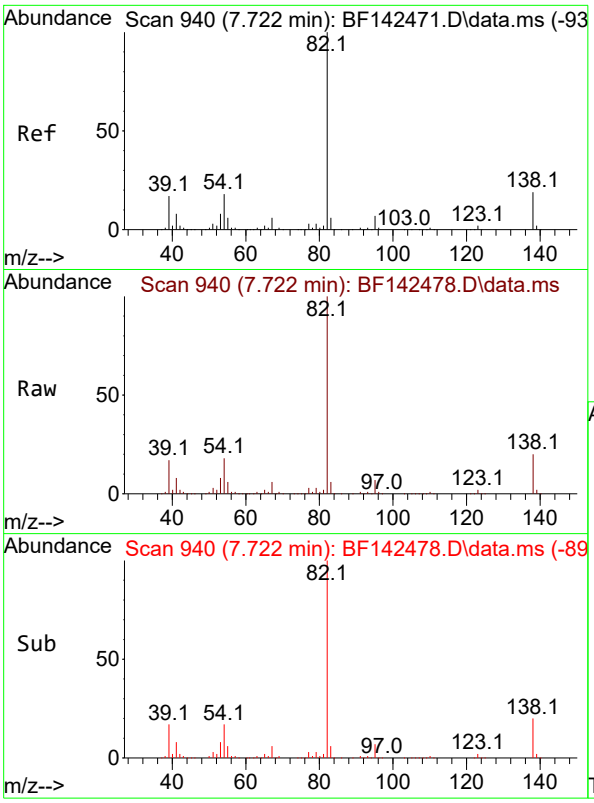


#24
Nitrobenzene
Concen: 38.366 ng
RT: 7.487 min Scan# 900
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion: 77 Resp: 301561

Ion	Ratio	Lower	Upper
77	100		
123	50.6	40.6	61.0
65	13.9	11.4	17.2



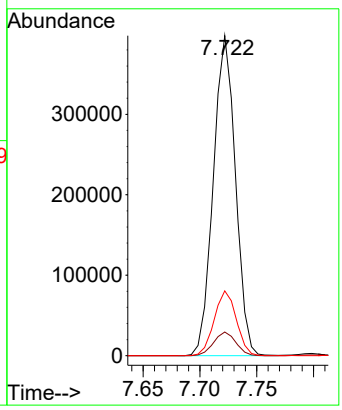


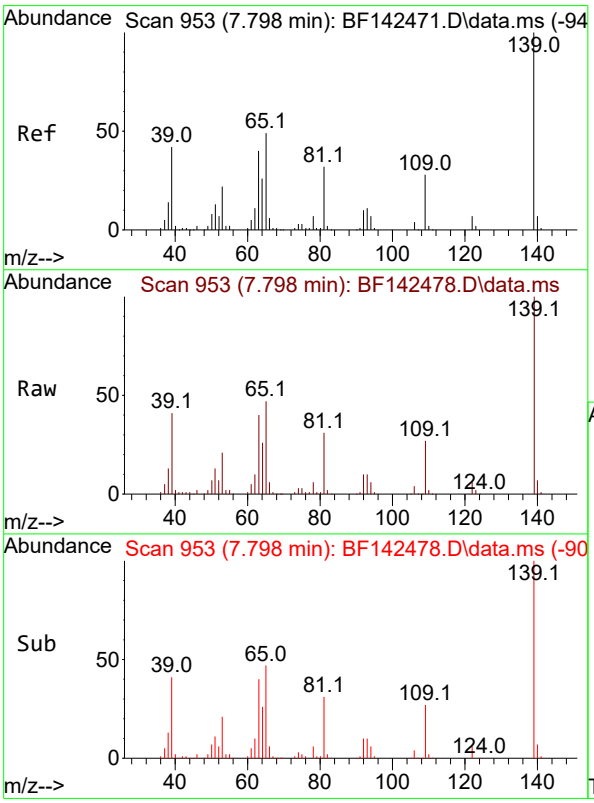
#25
Isophorone
Concen: 37.046 ng
RT: 7.722 min Scan# 94
Delta R.T. -0.012 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 539792

Ion	Ratio	Lower	Upper
82	100		
95	7.4	6.0	9.0
138	20.3	15.5	23.3

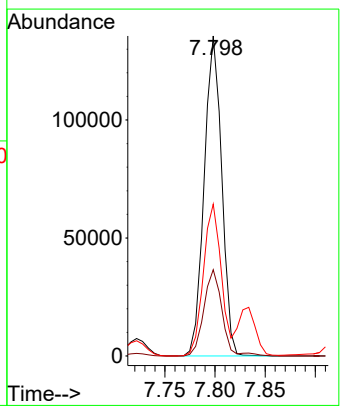


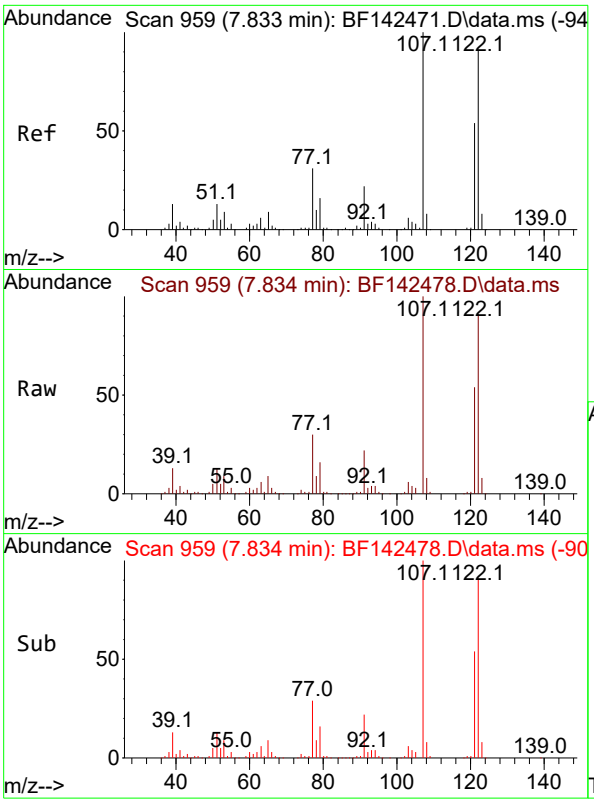


#26
2-Nitrophenol
Concen: 39.404 ng
RT: 7.798 min Scan# 953
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:139 Resp: 165491

Ion	Ratio	Lower	Upper
139	100		
109	27.0	22.6	33.8
65	47.4	39.4	59.0



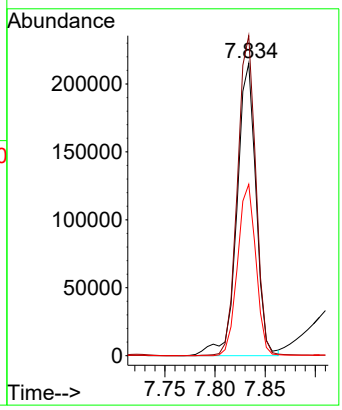


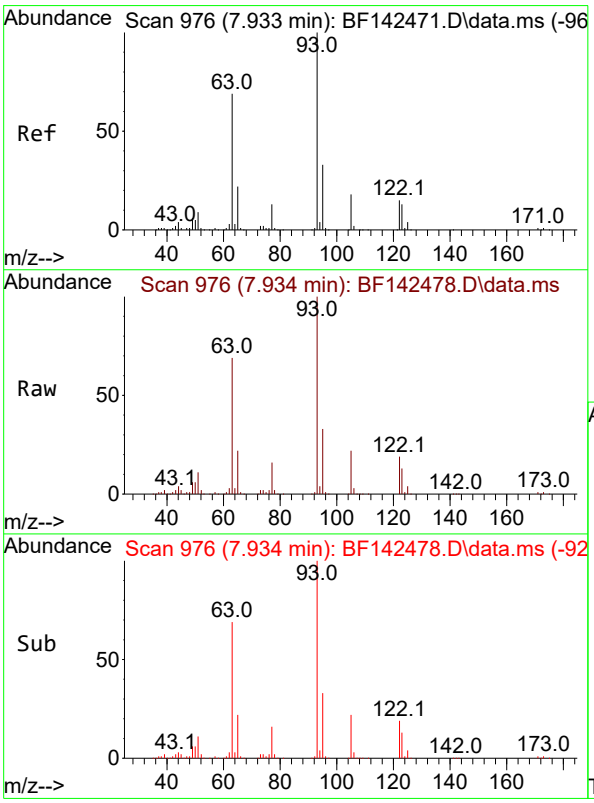
#27
2,4-Dimethylphenol
Concen: 38.464 ng
RT: 7.834 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 284888

Ion	Ratio	Lower	Upper
122	100		
107	109.5	88.1	132.1
121	58.6	47.3	70.9

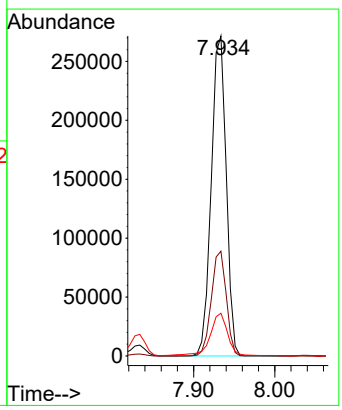


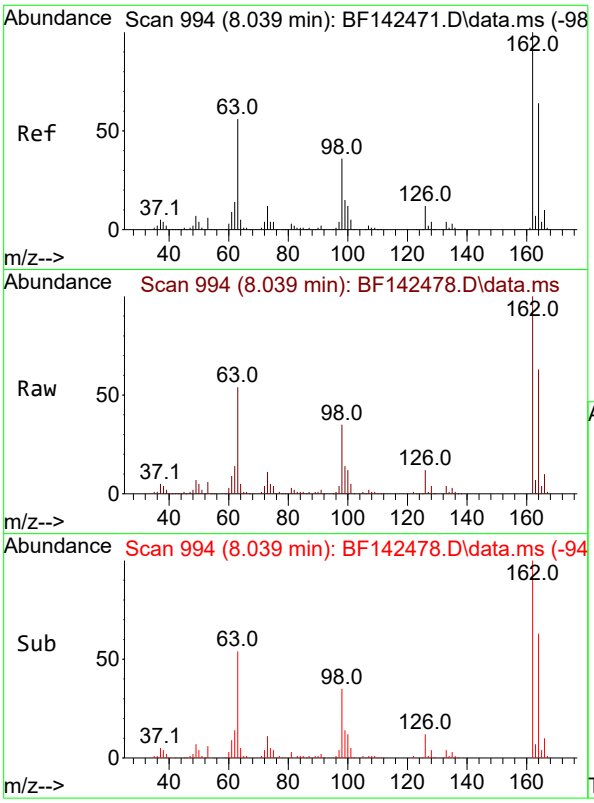


#28
bis(2-Chloroethoxy)methane
Concen: 38.052 ng
RT: 7.934 min Scan# 976
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion: 93 Resp: 346347

Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.4	39.6
123	13.3	10.6	15.8



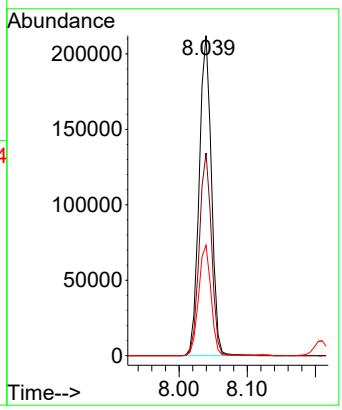


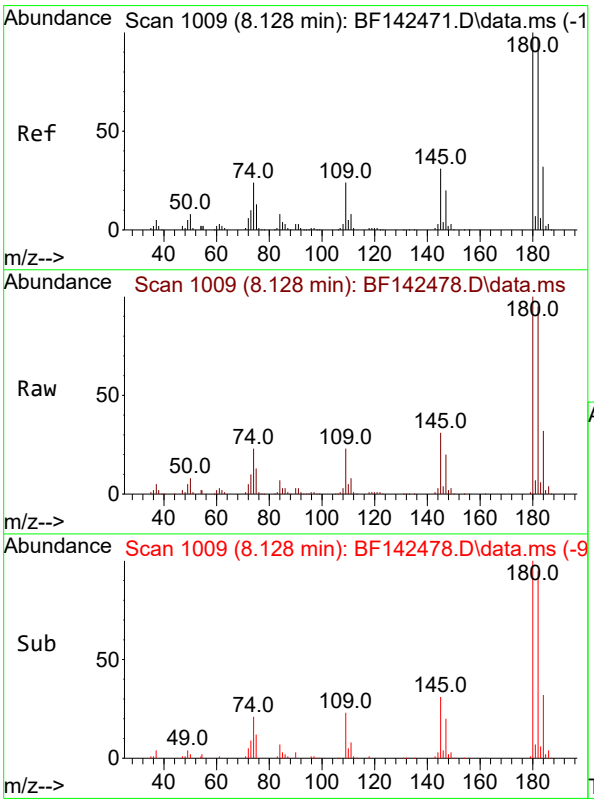
#29
2,4-Dichlorophenol
Concen: 39.287 ng
RT: 8.039 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 264622

Ion	Ratio	Lower	Upper
162	100		
164	63.4	43.7	83.7
98	34.5	15.5	55.5

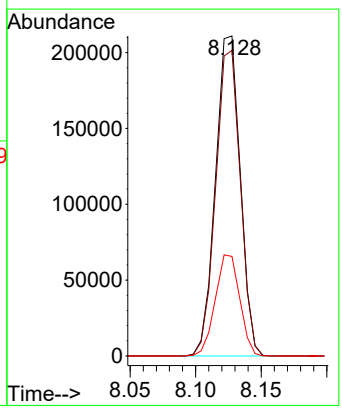


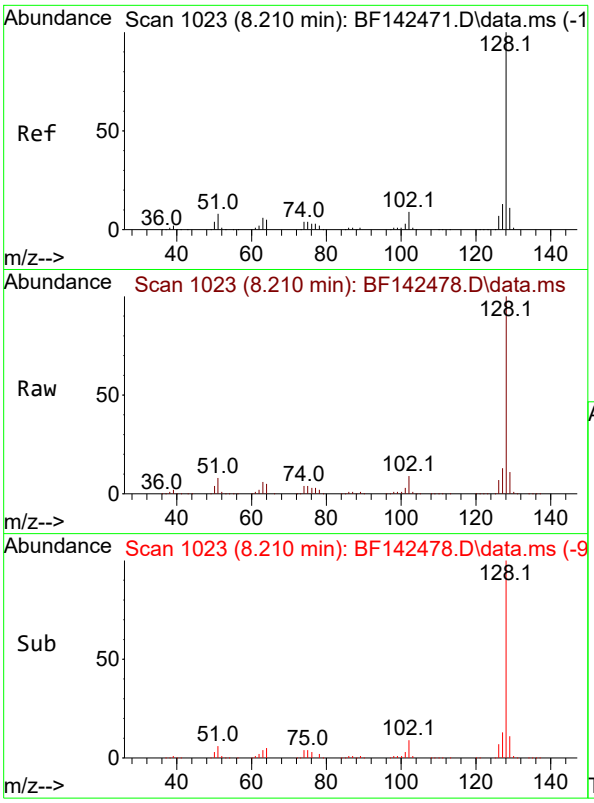


#30
1,2,4-Trichlorobenzene
Concen: 37.854 ng
RT: 8.128 min Scan# 1009
Delta R.T. 0.000 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:180 Resp: 276712

Ion	Ratio	Lower	Upper
180	100		
182	95.5	78.0	117.0
145	31.1	25.0	37.6



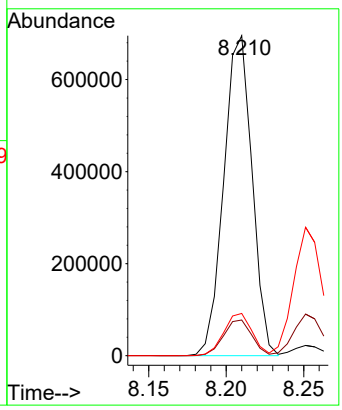


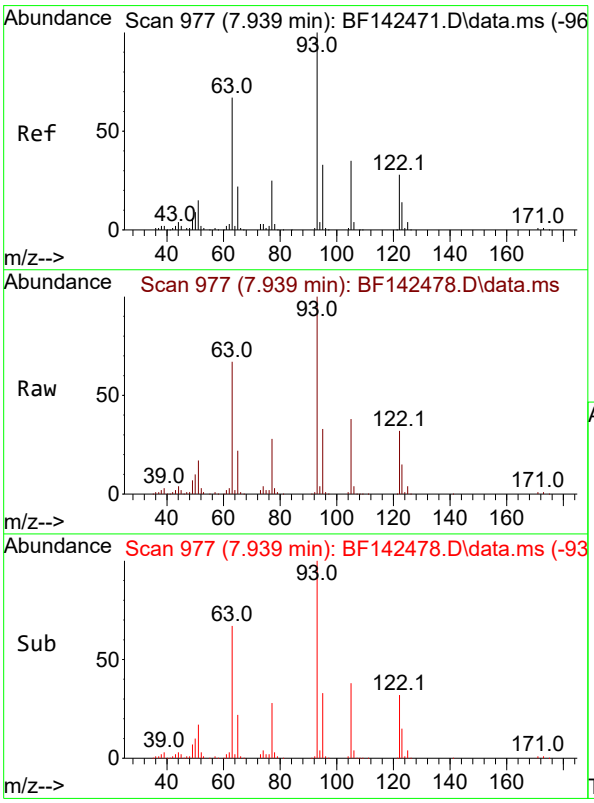
#31
Naphthalene
Concen: 37.710 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 882389

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.2	10.5	15.7

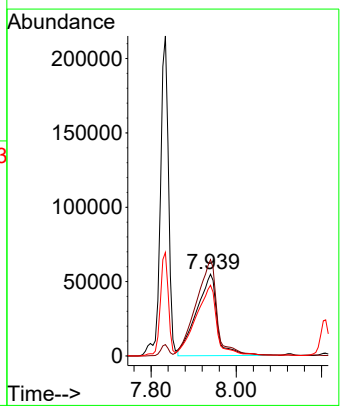


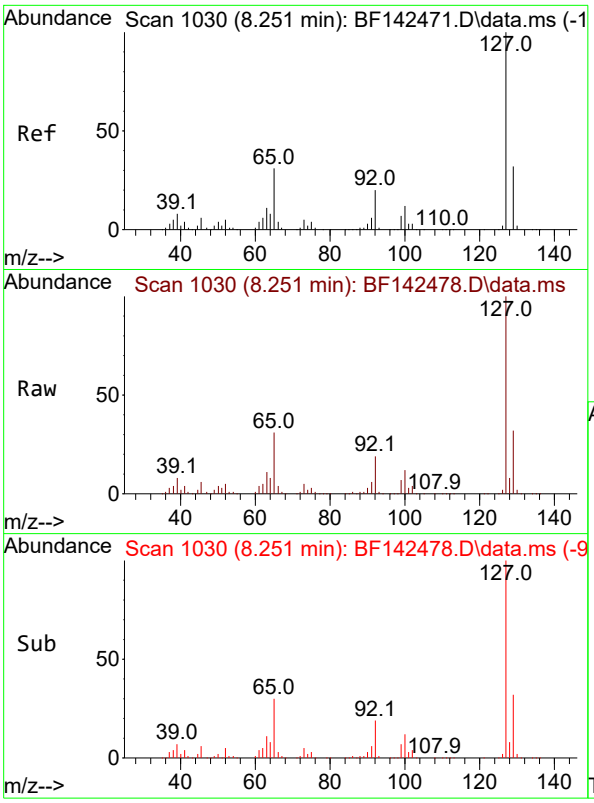


#32
Benzoic acid
Concen: 41.165 ng
RT: 7.939 min Scan# 977
Delta R.T. -0.036 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:122 Resp: 185594

Ion	Ratio	Lower	Upper
122	100		
105	117.8	101.7	141.7
77	86.5	69.5	109.5



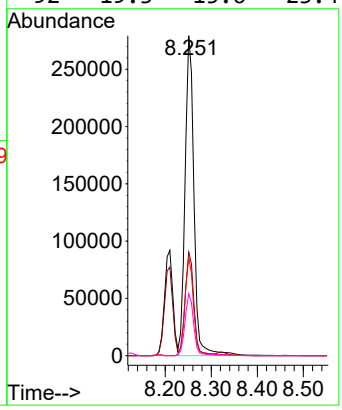


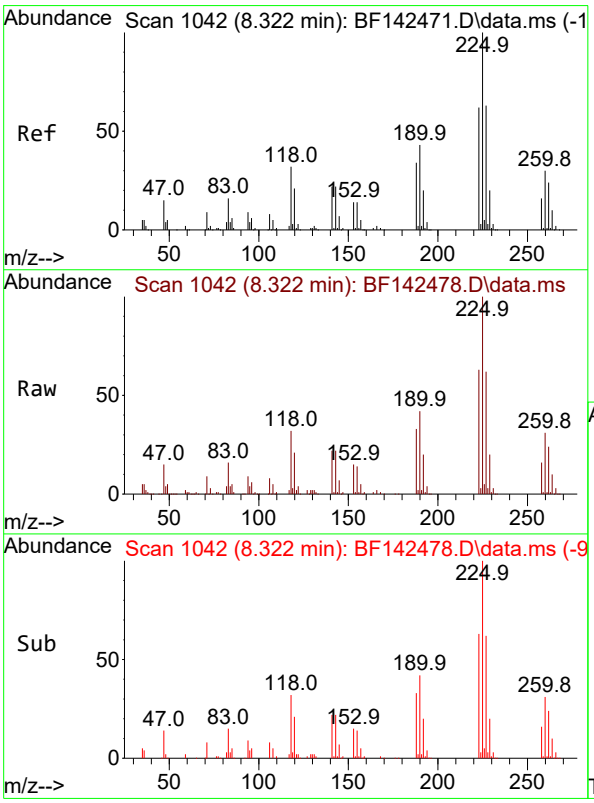
#33
4-Chloroaniline
Concen: 39.361 ng
RT: 8.251 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 373200

Ion	Ratio	Lower	Upper
127	100		
129	32.4	26.1	39.1
65	30.7	24.9	37.3
92	19.3	15.6	23.4

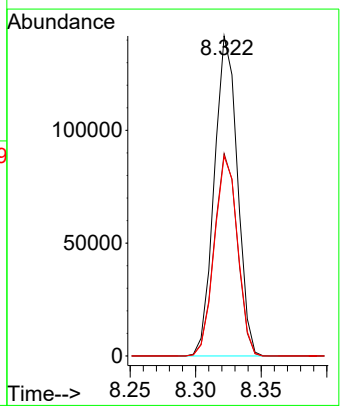


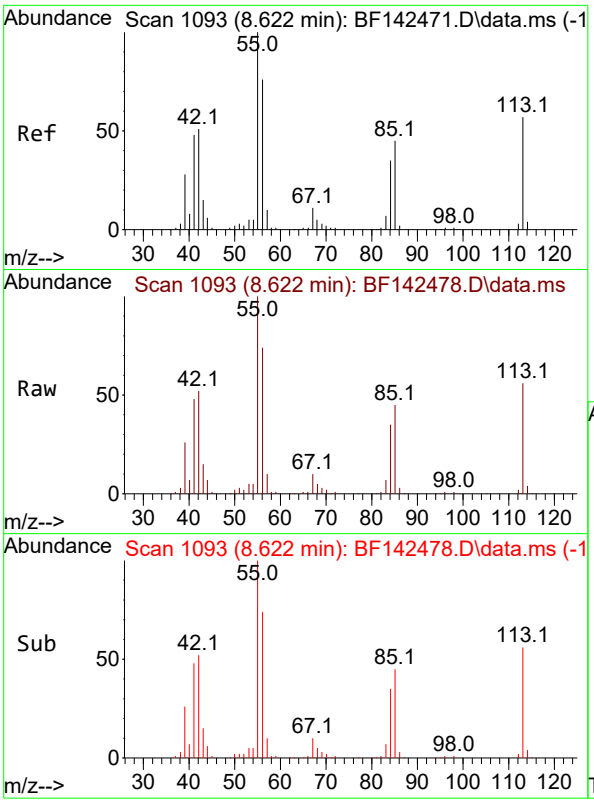


#34
Hexachlorobutadiene
Concen: 37.923 ng
RT: 8.322 min Scan# 1042
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:225 Resp: 173096

Ion	Ratio	Lower	Upper
225	100		
223	63.2	49.7	74.5
227	62.4	50.3	75.5



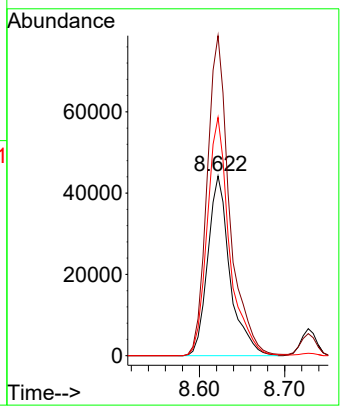


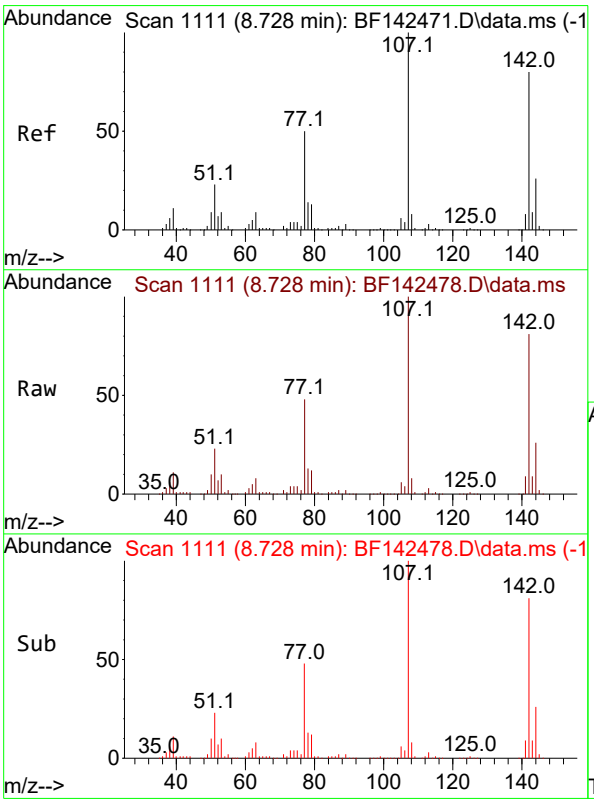
#35
Caprolactam
Concen: 42.190 ng
RT: 8.622 min Scan# 1
Delta R.T. -0.023 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 79814

Ion	Ratio	Lower	Upper
113	100		
55	178.0	154.7	194.7
56	132.6	113.2	153.2

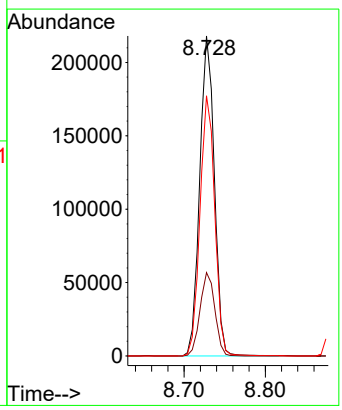


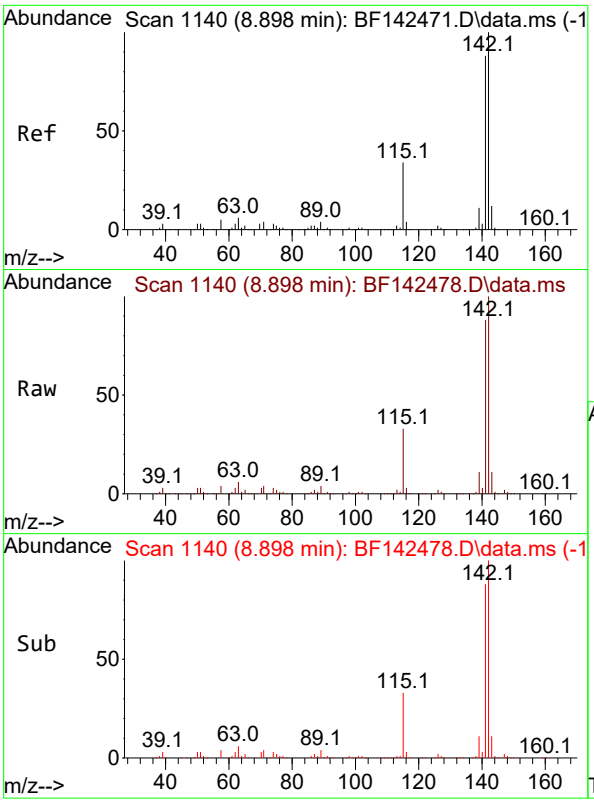


#36
4-Chloro-3-methylphenol
Concen: 39.543 ng
RT: 8.728 min Scan# 1111
Delta R.T. -0.012 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:107 Resp: 272961

Ion	Ratio	Lower	Upper
107	100		
144	26.0	20.9	31.3
142	81.3	64.2	96.2



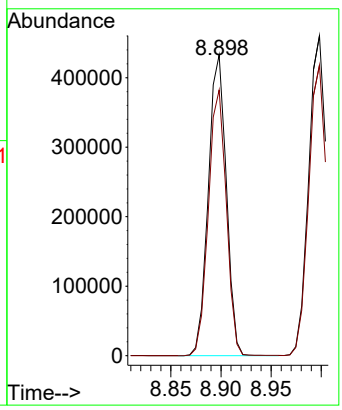


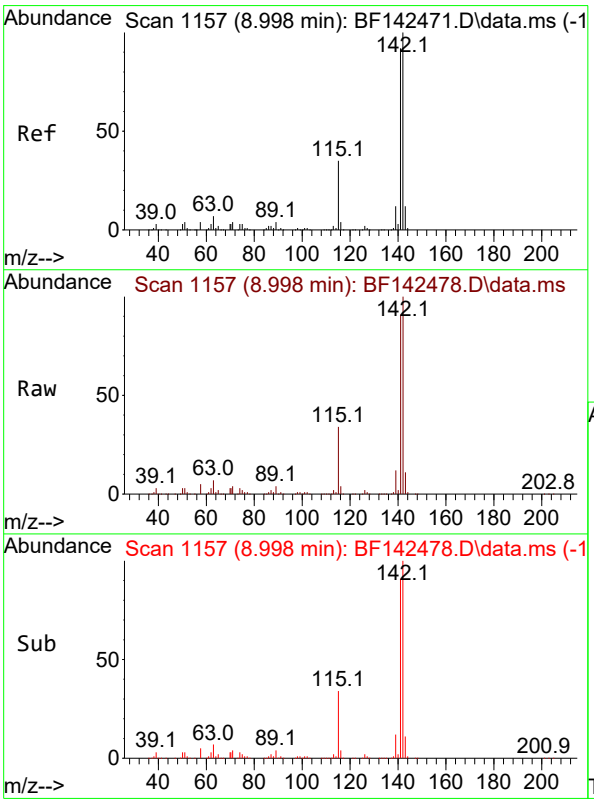
#37
2-Methylnaphthalene
Concen: 36.785 ng
RT: 8.898 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 541505

Ion	Ratio	Lower	Upper
142	100		
141	88.3	70.7	106.1

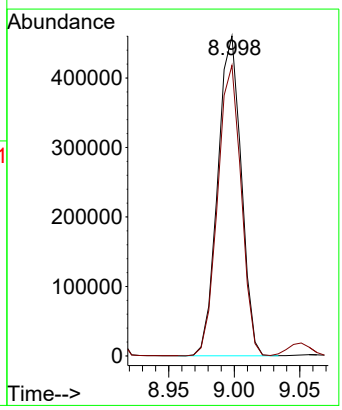


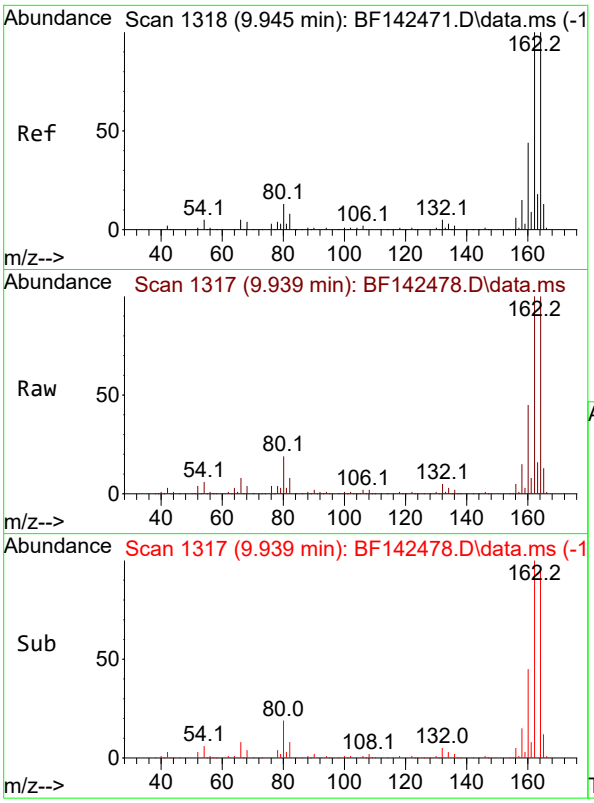


#38
1-Methylnaphthalene
Concen: 37.677 ng
RT: 8.998 min Scan# 1157
Delta R.T. 0.000 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:142 Resp: 573711

Ion	Ratio	Lower	Upper
142	100		
141	90.8	73.4	110.2



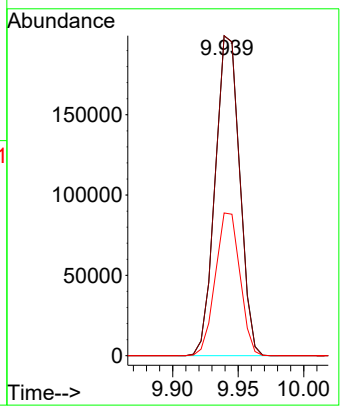


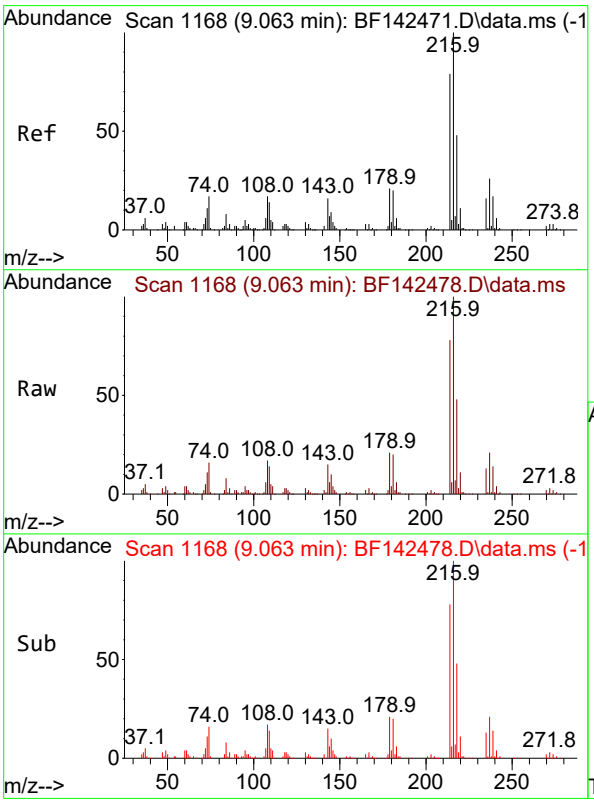
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 258765

Ion	Ratio	Lower	Upper
164	100		
162	100.1	80.2	120.4
160	44.6	35.6	53.4

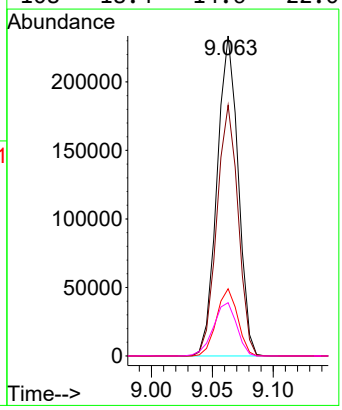


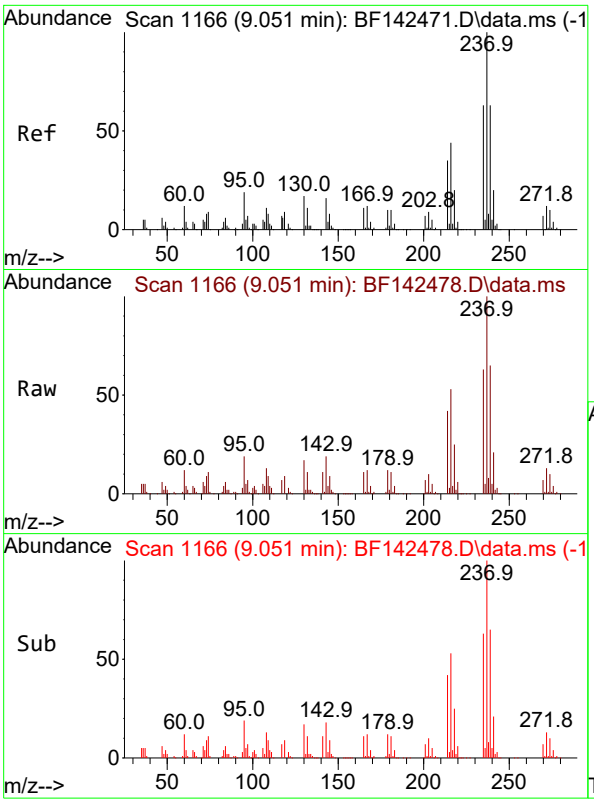


#40
1,2,4,5-Tetrachlorobenzene
Concen: 37.950 ng
RT: 9.063 min Scan# 1168
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:216 Resp: 281896

Ion	Ratio	Lower	Upper
216	100		
214	78.7	62.9	94.3
179	21.1	16.9	25.3
108	18.4	14.6	22.0



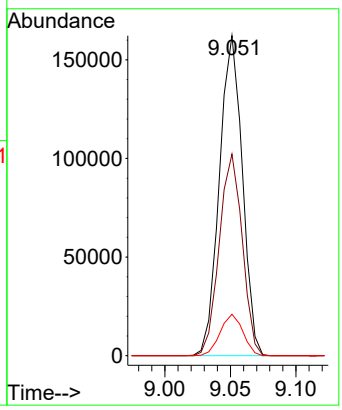


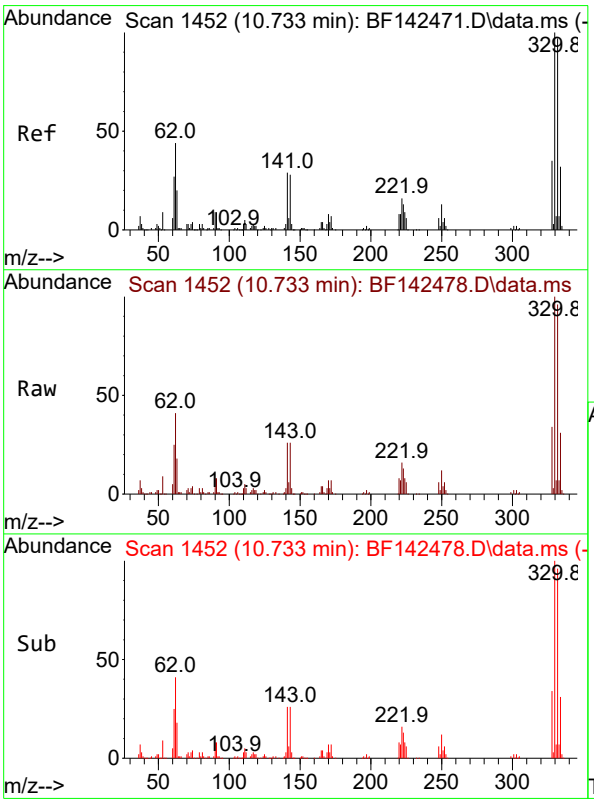
#41
Hexachlorocyclopentadiene
Concen: 39.361 ng
RT: 9.051 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 197231

Ion	Ratio	Lower	Upper
237	100		
235	63.0	43.3	83.3
272	13.0	0.0	32.4

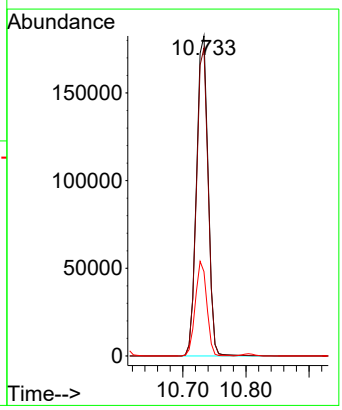


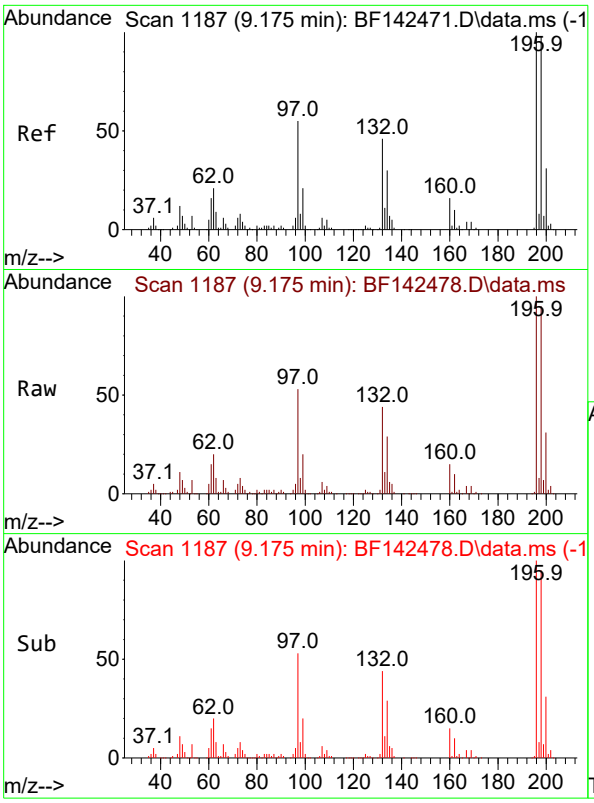


#42
2,4,6-Tribromophenol
Concen: 80.978 ng
RT: 10.733 min Scan# 1452
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:330 Resp: 232567

Ion	Ratio	Lower	Upper
330	100		
332	96.4	77.6	116.4
141	29.2	24.6	36.8



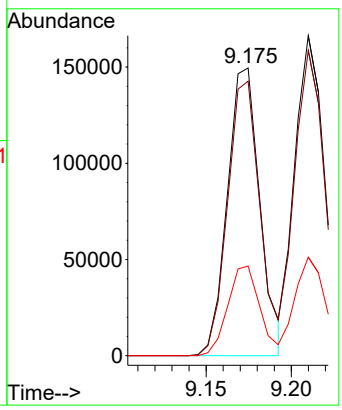


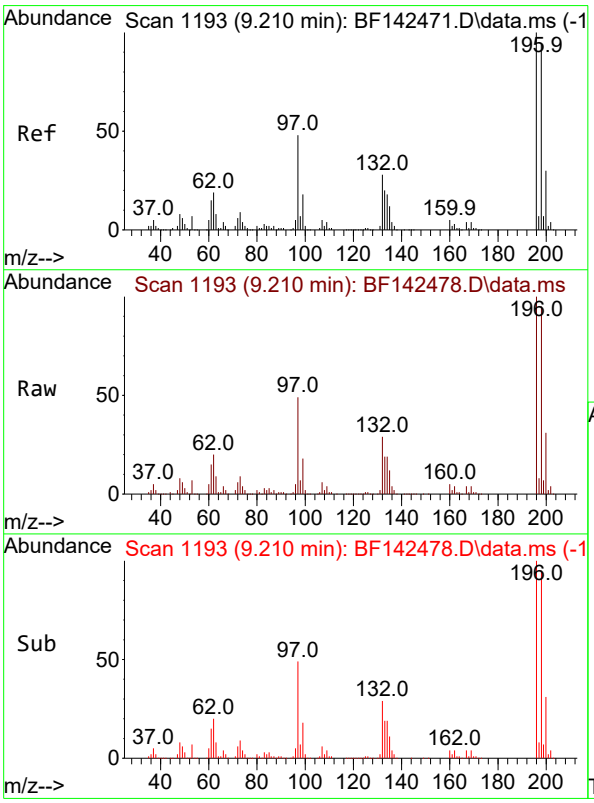
#43
2,4,6-Trichlorophenol
Concen: 39.608 ng
RT: 9.175 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 198391

Ion	Ratio	Lower	Upper
196	100		
198	95.4	78.8	118.2
200	31.1	24.9	37.3

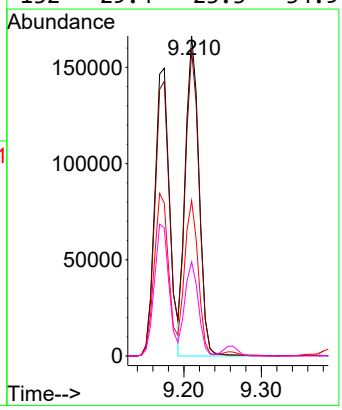


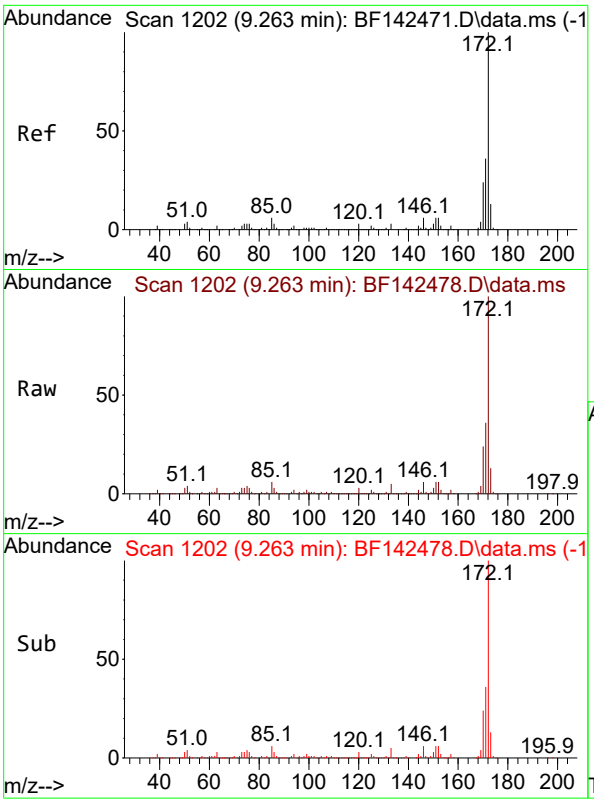


#44
2,4,5-Trichlorophenol
Concen: 38.818 ng
RT: 9.210 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:196 Resp: 205060

Ion	Ratio	Lower	Upper
196	100		
198	95.4	75.5	113.3
97	48.6	39.3	58.9
132	29.4	23.3	34.9



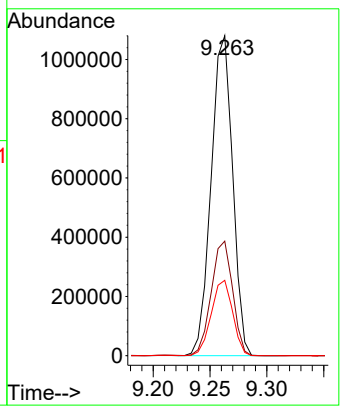


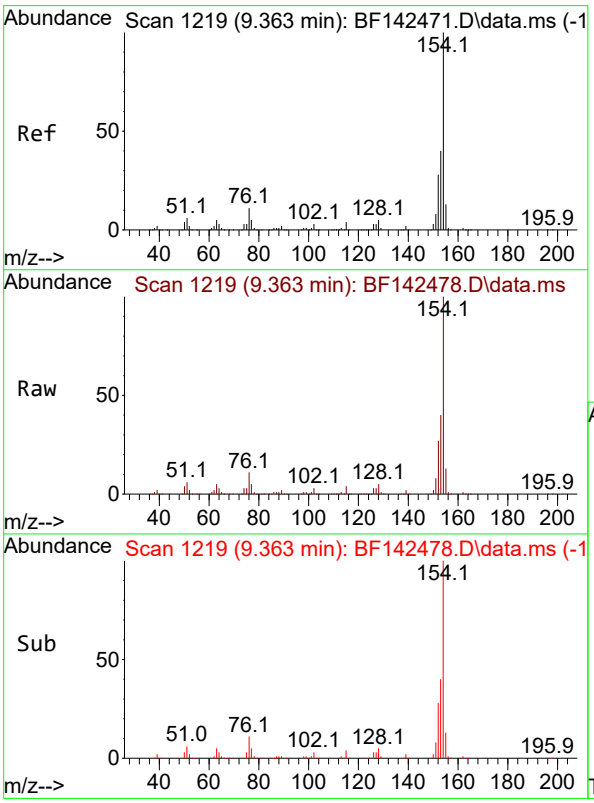
#45
2-Fluorobiphenyl
Concen: 73.721 ng
RT: 9.263 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 1421641

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	42.8
170	23.6	18.9	28.3

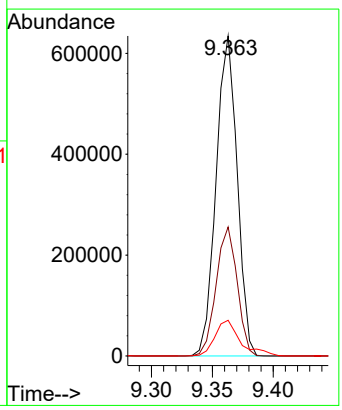


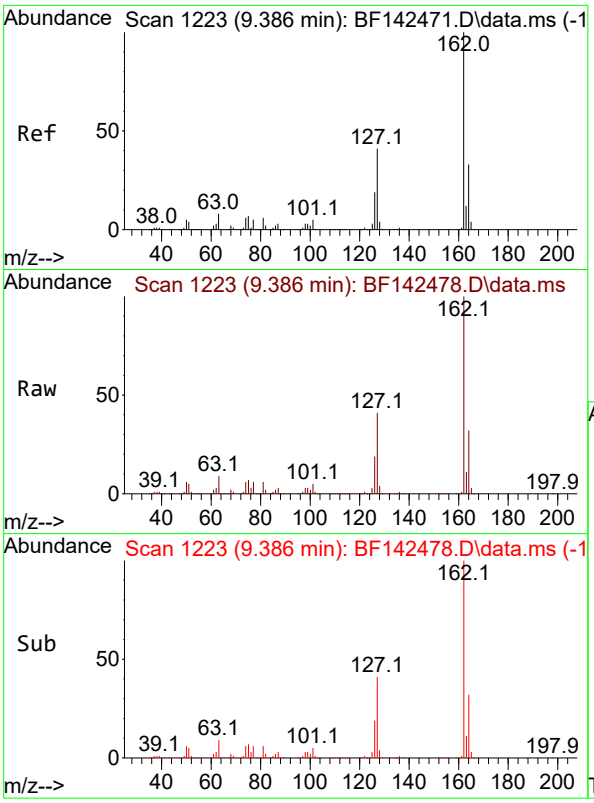


#46
1,1'-Biphenyl
Concen: 38.077 ng
RT: 9.363 min Scan# 1219
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:154 Resp: 764423

Ion	Ratio	Lower	Upper
154	100		
153	40.3	20.4	60.4
76	11.2	0.0	30.8



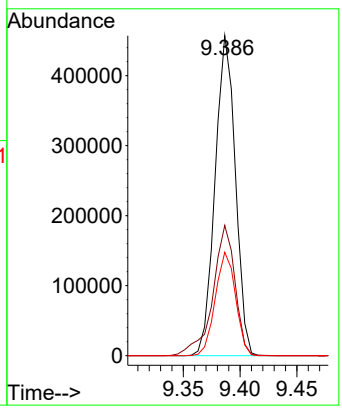


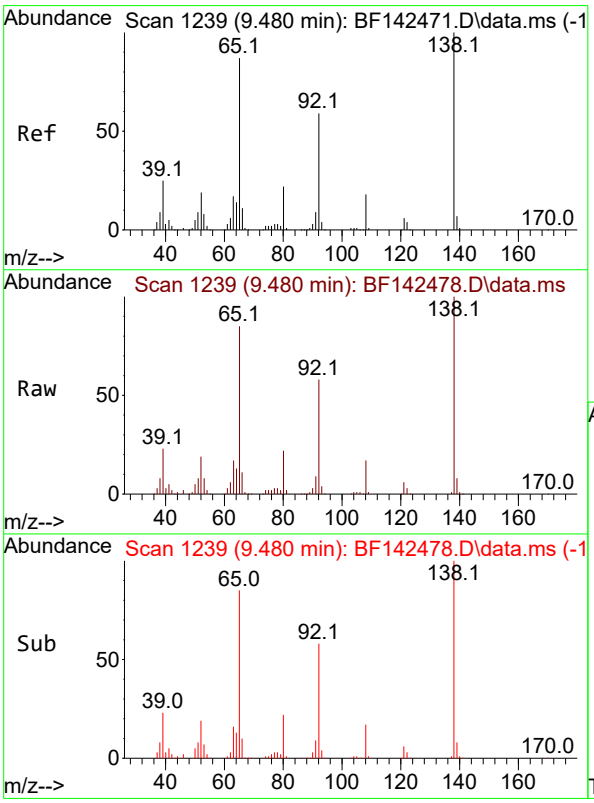
#47
2-Chloronaphthalene
Concen: 38.309 ng
RT: 9.386 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 568213

Ion	Ratio	Lower	Upper
162	100		
127	40.7	33.5	50.3
164	32.3	26.1	39.1

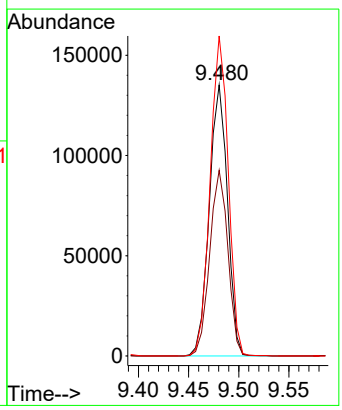


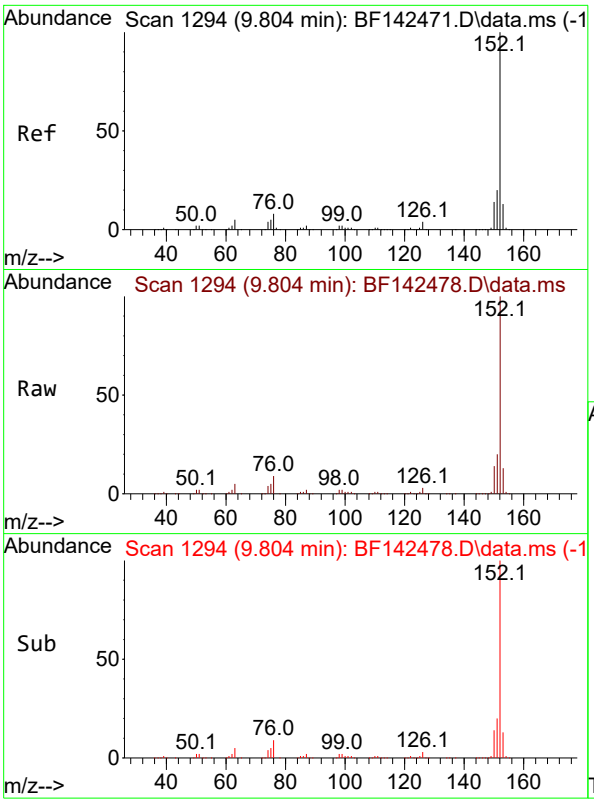


#48
2-Nitroaniline
Concen: 39.983 ng
RT: 9.480 min Scan# 1239
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion: 65 Resp: 171415

Ion	Ratio	Lower	Upper
65	100		
92	68.5	54.4	81.6
138	118.0	91.4	137.2



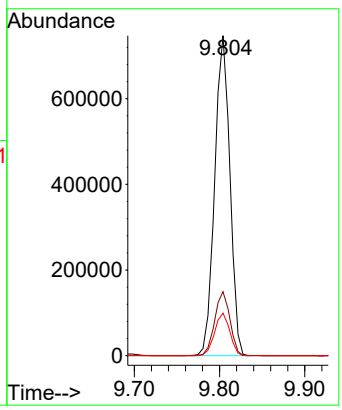


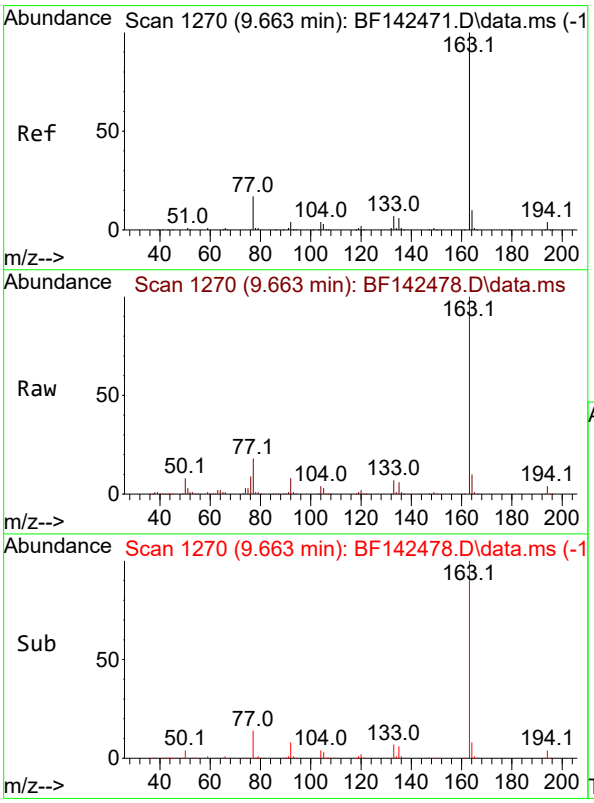
#49
Acenaphthylene
Concen: 37.095 ng
RT: 9.804 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 929079

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.8
153	13.3	10.6	15.8

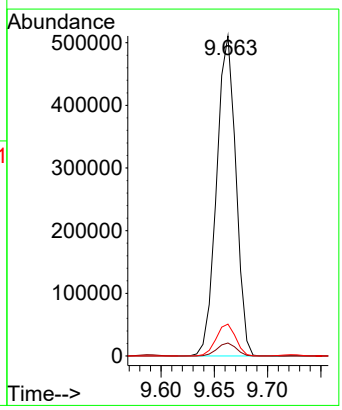


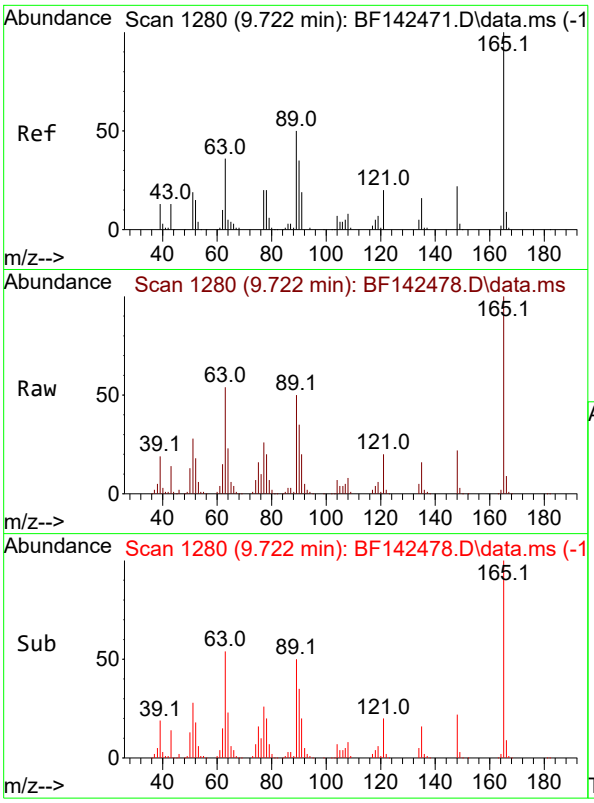


#50
Dimethylphthalate
Concen: 37.620 ng
RT: 9.663 min Scan# 1270
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:163 Resp: 642337

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.3	4.9
164	10.0	8.2	12.4



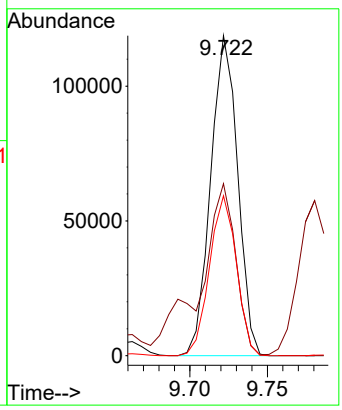


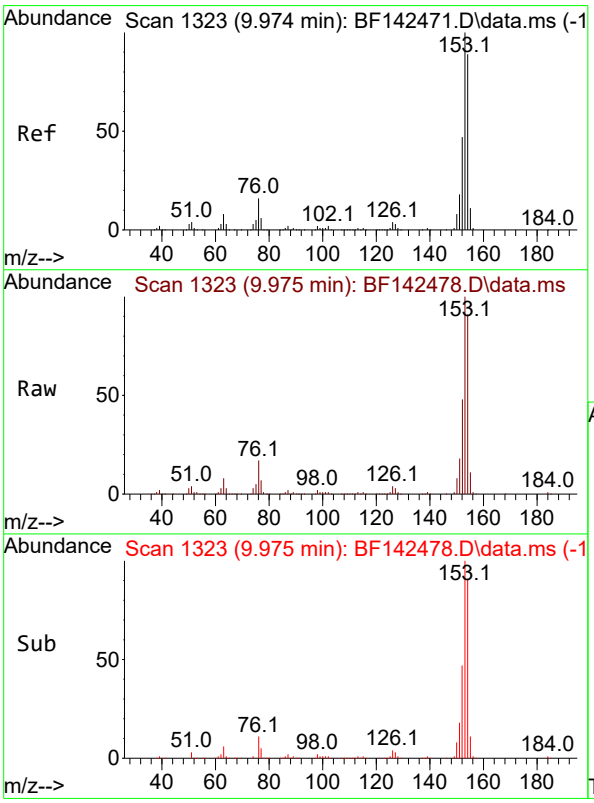
#51
2,6-Dinitrotoluene
Concen: 39.000 ng
RT: 9.722 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 143720

Ion	Ratio	Lower	Upper
165	100		
63	53.7	42.9	64.3
89	50.0	40.2	60.4

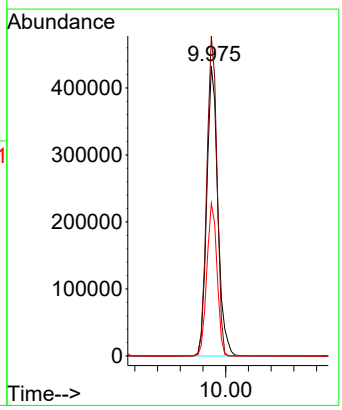


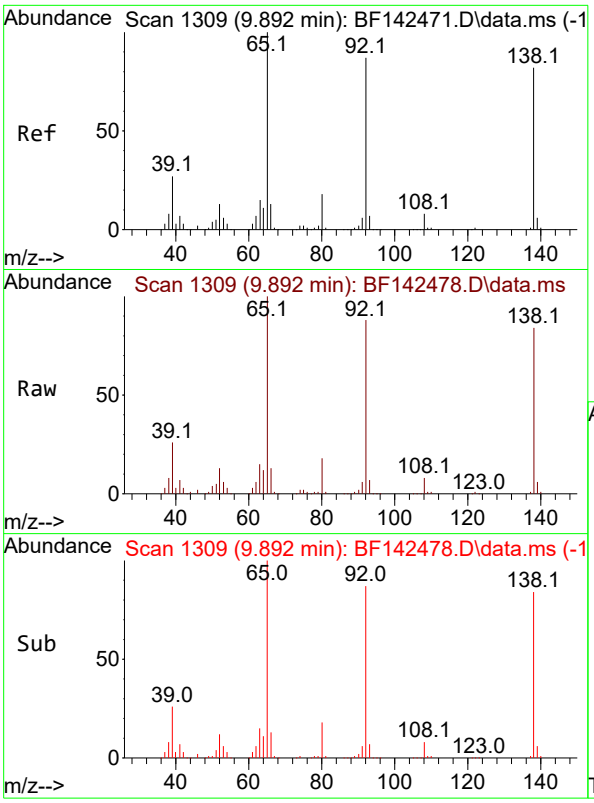


#52
Acenaphthene
Concen: 38.082 ng
RT: 9.975 min Scan# 1323
Delta R.T. -0.005 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:154 Resp: 582417

Ion	Ratio	Lower	Upper
154	100		
153	110.5	90.0	135.0
152	52.7	42.6	64.0



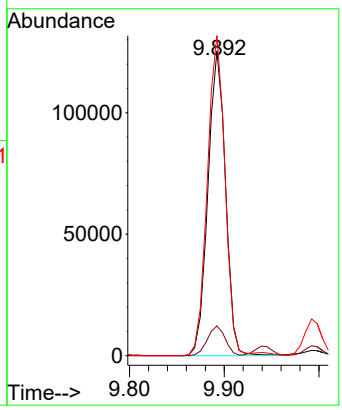


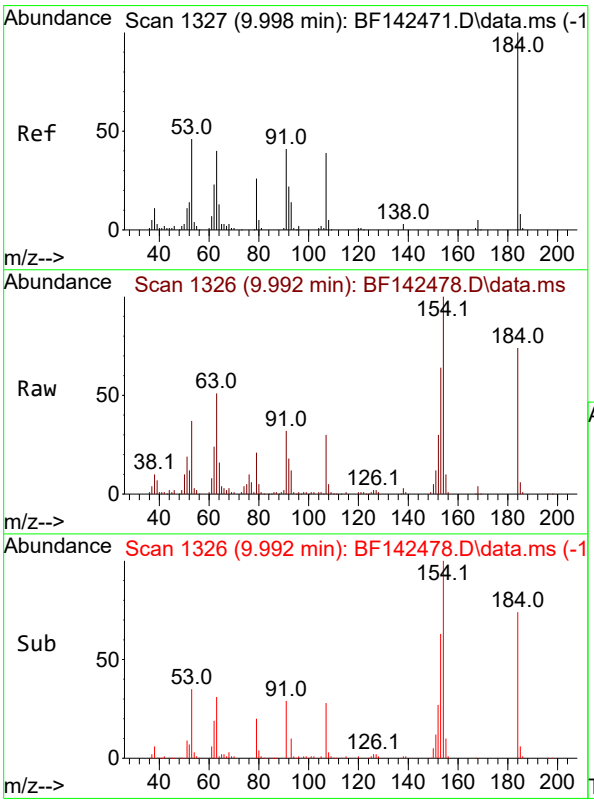
#53
3-Nitroaniline
Concen: 40.154 ng
RT: 9.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 161621

Ion	Ratio	Lower	Upper
138	100		
108	9.8	8.1	12.1
92	105.0	85.2	127.8

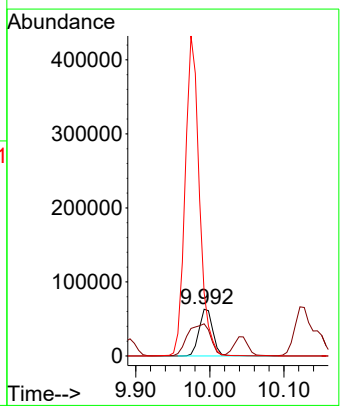


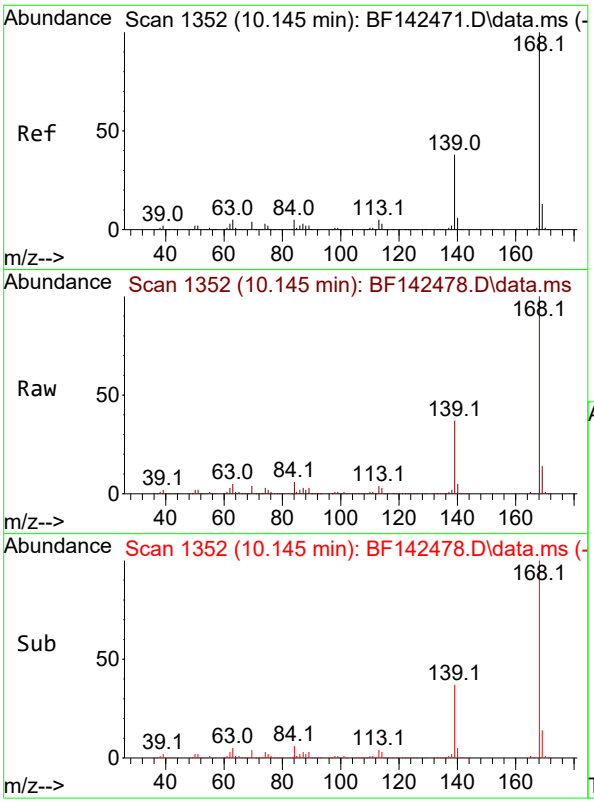


#54
2,4-Dinitrophenol
Concen: 43.128 ng
RT: 9.992 min Scan# 1326
Delta R.T. -0.012 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:184 Resp: 82111

Ion	Ratio	Lower	Upper
184	100		
63	68.8	46.3	69.5
154	135.6	56.8	85.2#



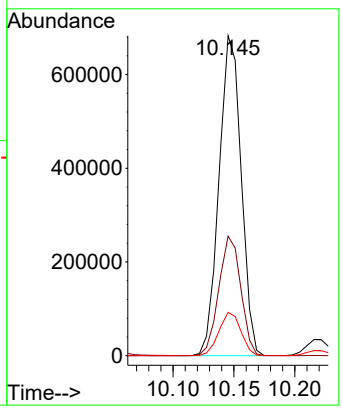


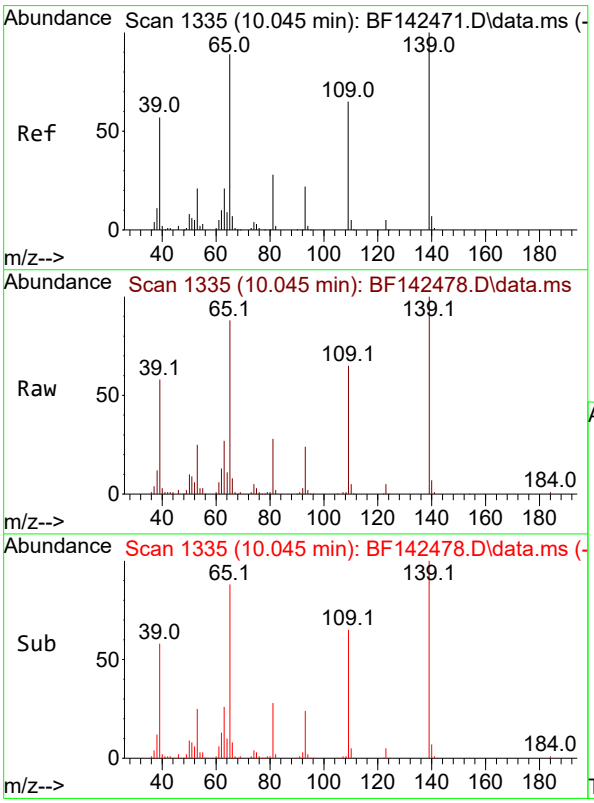
#55
Dibenzofuran
Concen: 39.319 ng
RT: 10.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 865331

Ion	Ratio	Lower	Upper
168	100		
139	37.4	30.2	45.2
169	13.5	10.7	16.1

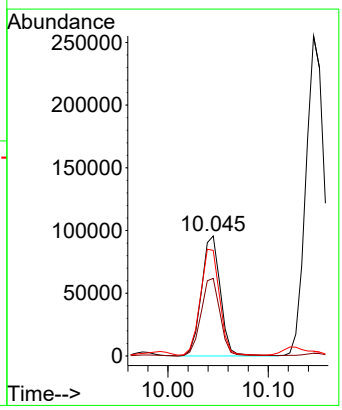


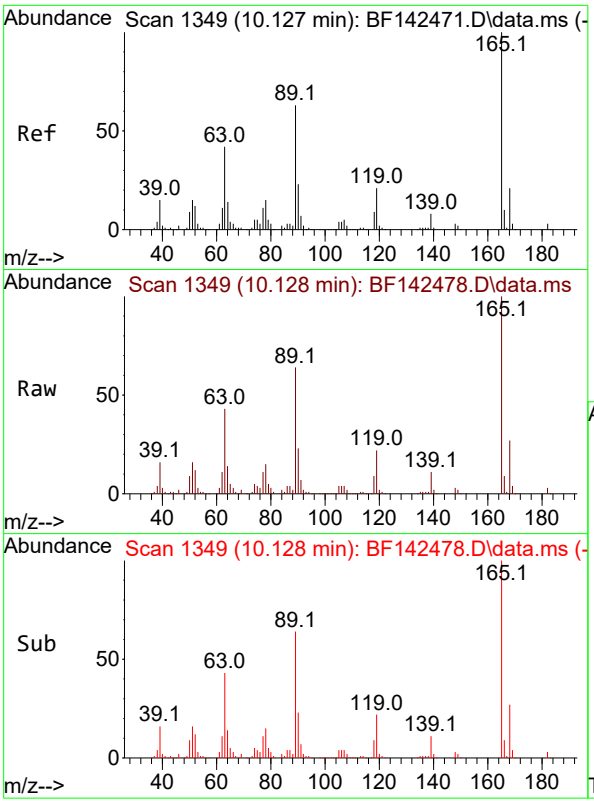


#56
4-Nitrophenol
Concen: 42.389 ng
RT: 10.045 min Scan# 1335
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:139 Resp: 125889

Ion	Ratio	Lower	Upper
139	100		
109	64.7	45.1	85.1
65	88.0	69.7	109.7



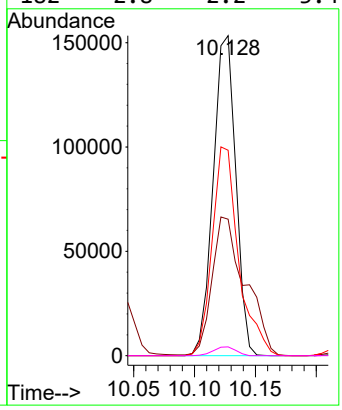


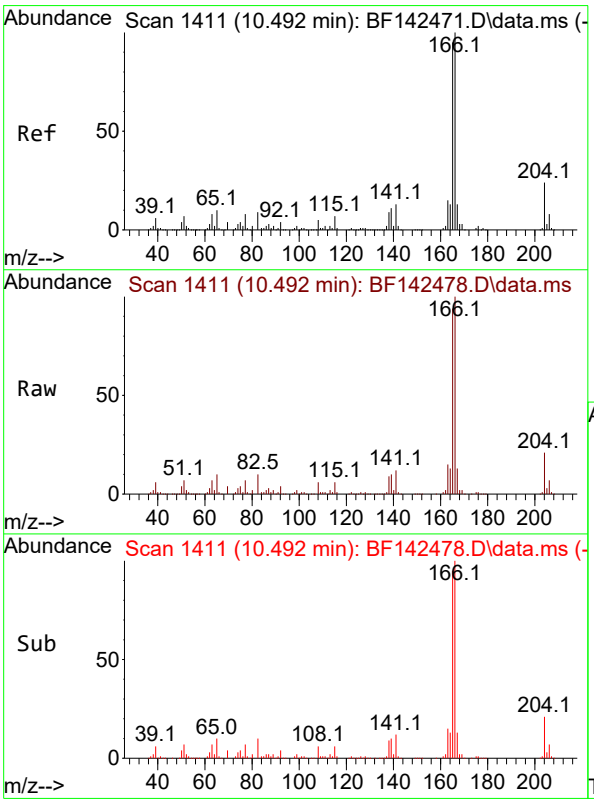
#57
2,4-Dinitrotoluene
Concen: 41.203 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 198299

Ion	Ratio	Lower	Upper
165	100		
63	42.7	33.6	50.4
89	64.2	50.2	75.4
182	2.8	2.2	3.4

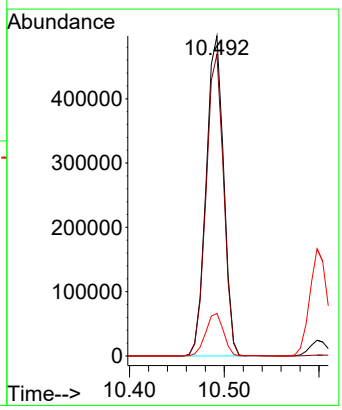


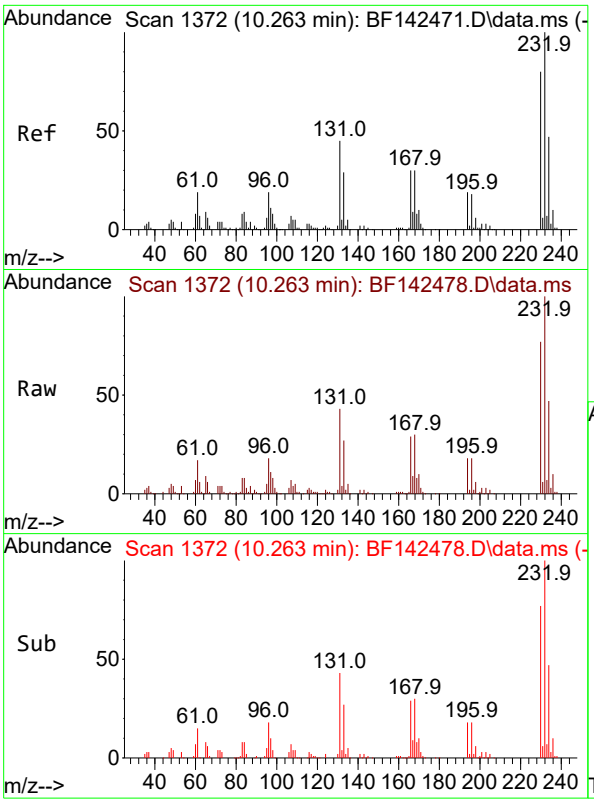


#58
Fluorene
Concen: 37.421 ng
RT: 10.492 min Scan# 1411
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:166 Resp: 636236

Ion	Ratio	Lower	Upper
166	100		
165	94.3	75.8	113.8
167	13.3	10.6	16.0



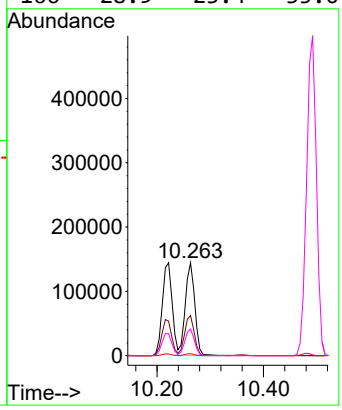


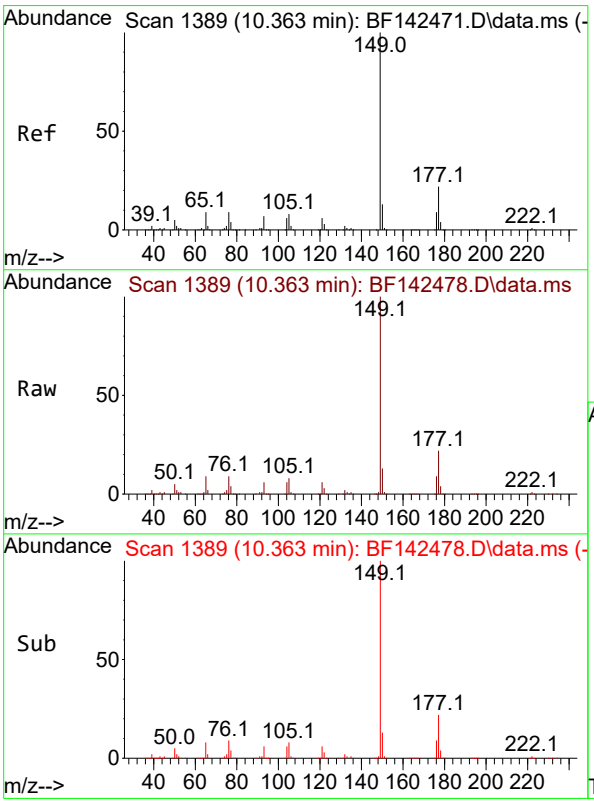
#59
2,3,4,6-Tetrachlorophenol
Concen: 40.584 ng
RT: 10.263 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 178973

Ion	Ratio	Lower	Upper
232	100		
131	43.7	35.2	52.8
130	2.2	1.7	2.5
166	28.9	23.4	35.0

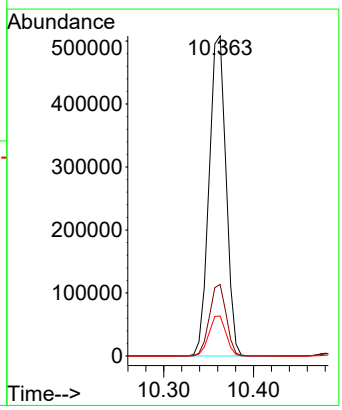


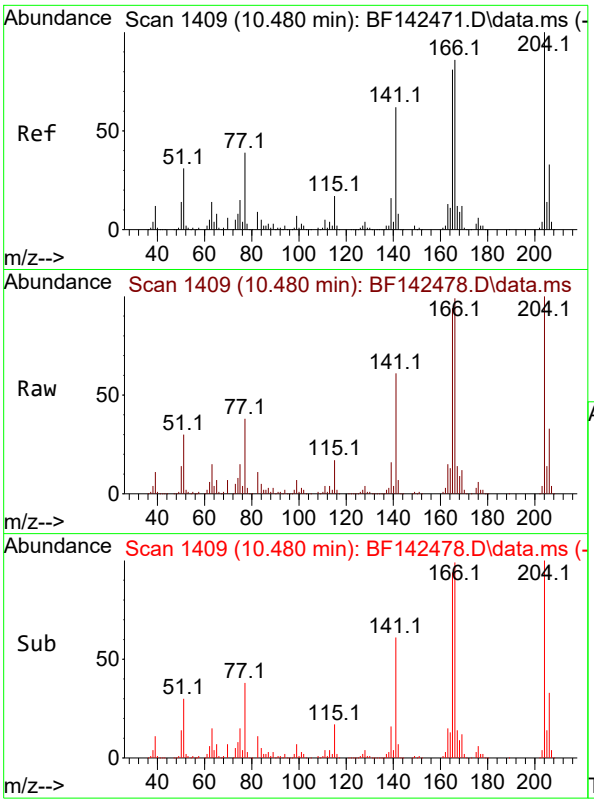


#60
Diethylphthalate
Concen: 39.920 ng
RT: 10.363 min Scan# 1389
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:149 Resp: 665684

Ion	Ratio	Lower	Upper
149	100		
177	22.3	17.6	26.4
150	12.5	10.1	15.1



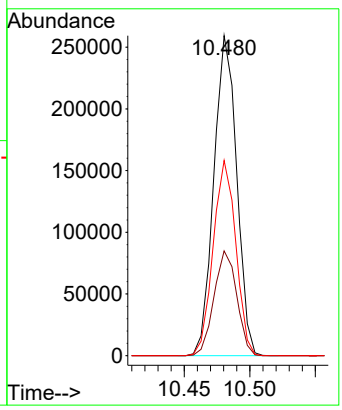


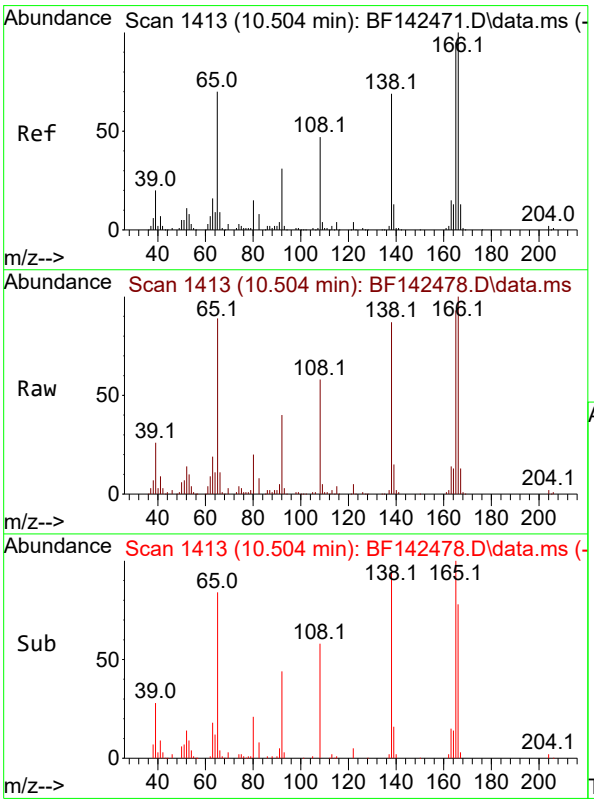
#61
4-Chlorophenyl-phenylether
Concen: 37.531 ng
RT: 10.480 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 313464

Ion	Ratio	Lower	Upper
204	100		
206	32.8	26.3	39.5
141	61.0	49.5	74.3

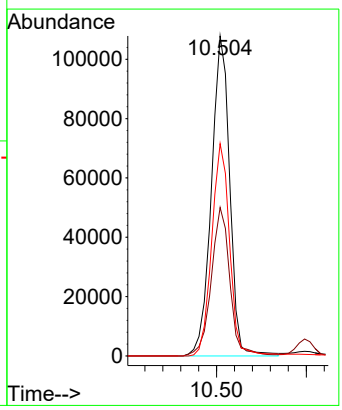


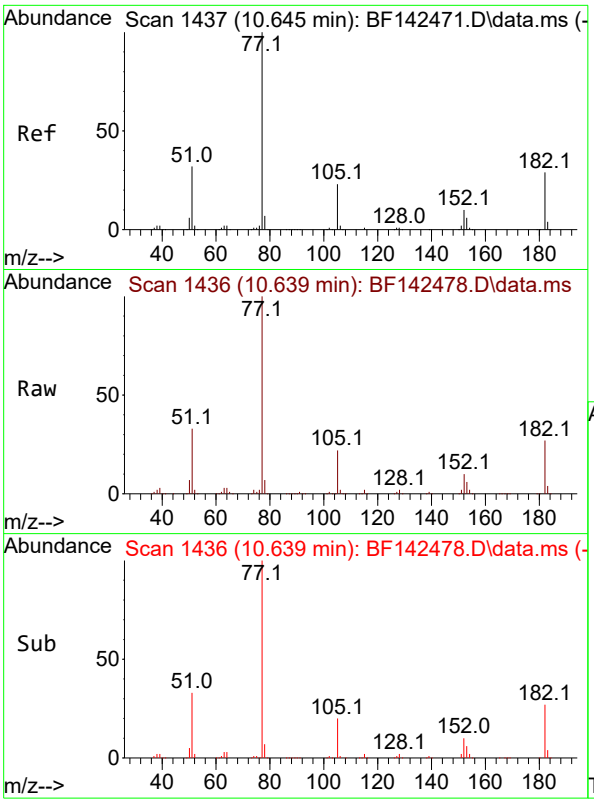


#62
4-Nitroaniline
Concen: 41.934 ng
RT: 10.504 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:138 Resp: 153079

Ion	Ratio	Lower	Upper
138	100		
92	46.4	26.0	66.0
108	66.3	48.4	88.4



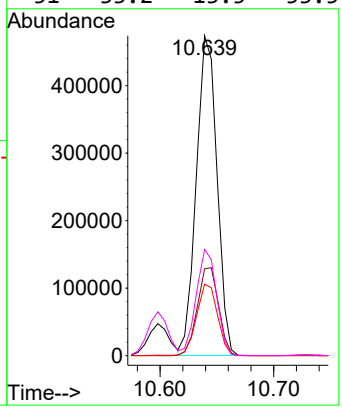


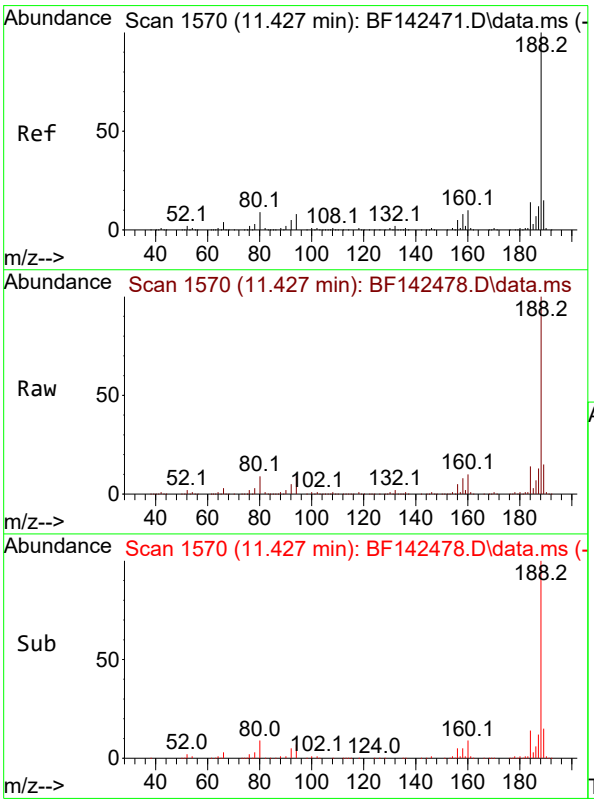
#63
Azobenzene
Concen: 40.078 ng
RT: 10.639 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 600280

Ion	Ratio	Lower	Upper
77	100		
182	27.1	9.0	49.0
105	22.3	2.4	42.4
51	33.2	13.5	53.5

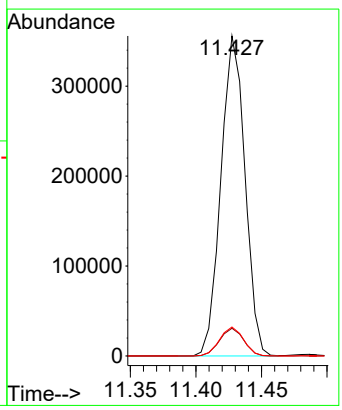


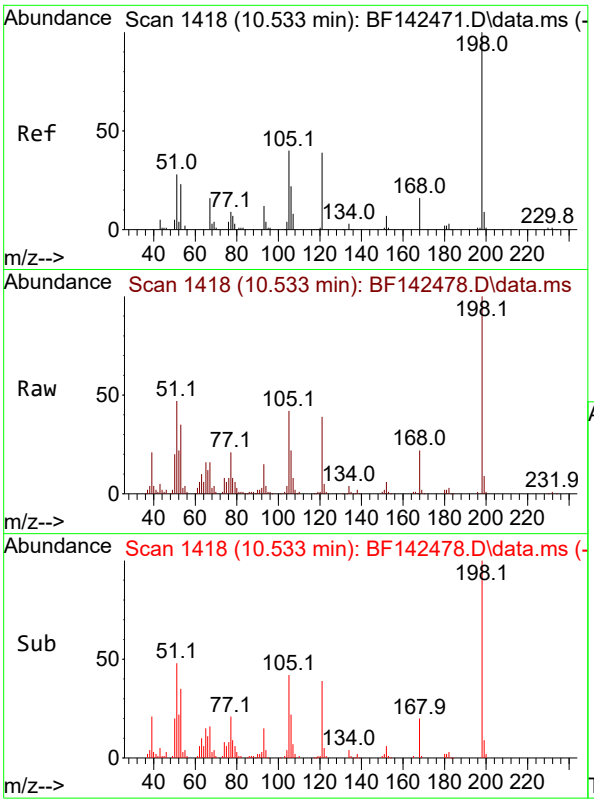


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:188 Resp: 454448

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.6	10.0
80	9.1	7.4	11.0



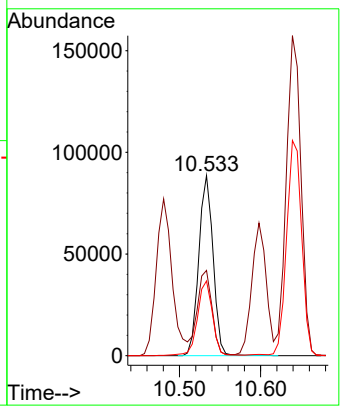


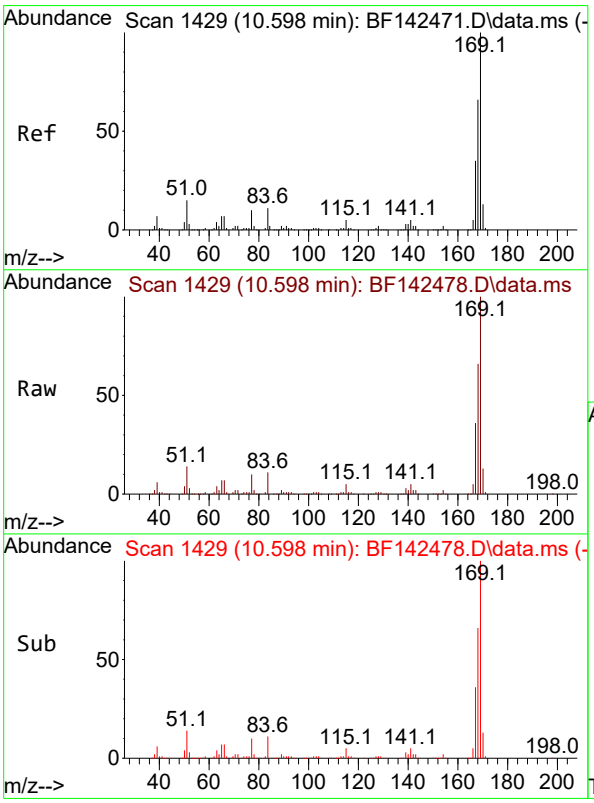
#65
4,6-Dinitro-2-methylphenol
Concen: 42.732 ng
RT: 10.533 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 108376

Ion	Ratio	Lower	Upper
198	100		
51	47.3	28.3	68.3
105	41.5	21.3	61.3

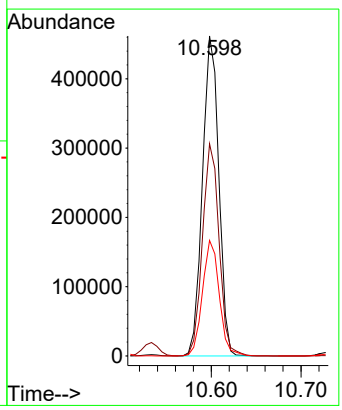


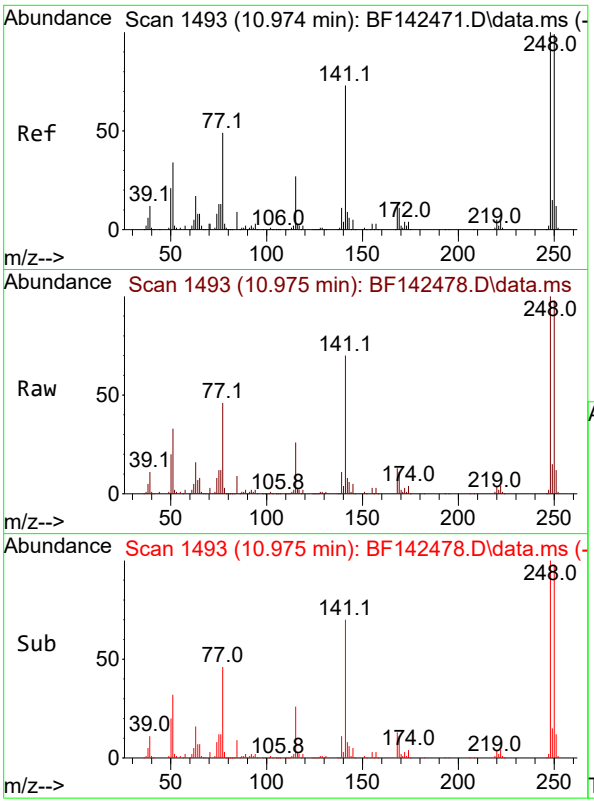


#66
n-Nitrosodiphenylamine
Concen: 37.498 ng
RT: 10.598 min Scan# 1429
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:169 Resp: 582997

Ion	Ratio	Lower	Upper
169	100		
168	66.3	52.7	79.1
167	36.1	28.3	42.5



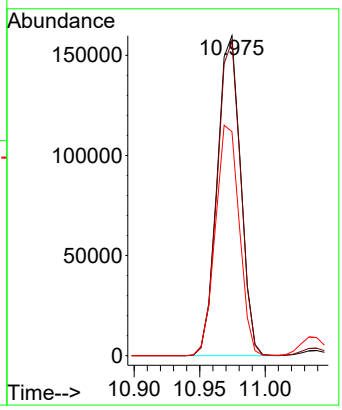


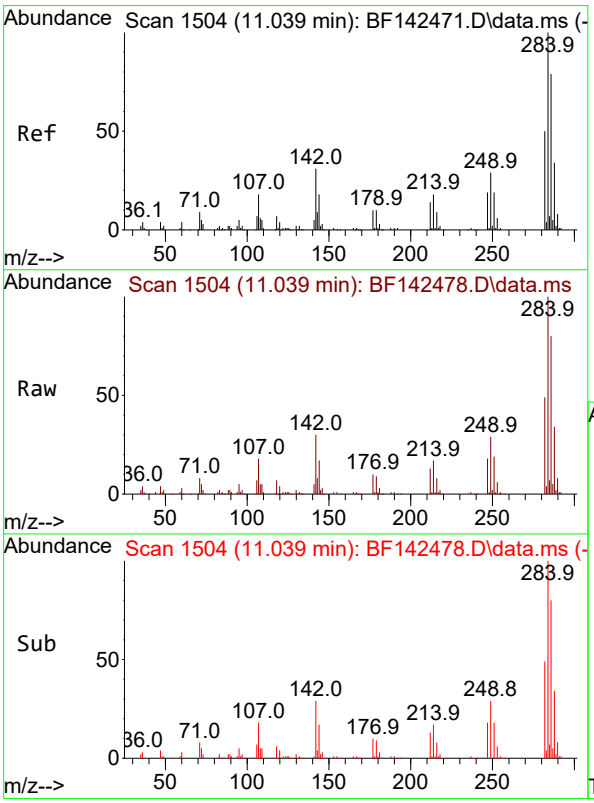
#67
4-Bromophenyl-phenylether
Concen: 37.092 ng
RT: 10.975 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 199315

Ion	Ratio	Lower	Upper
248	100		
250	98.3	79.0	118.4
141	70.0	58.4	87.6

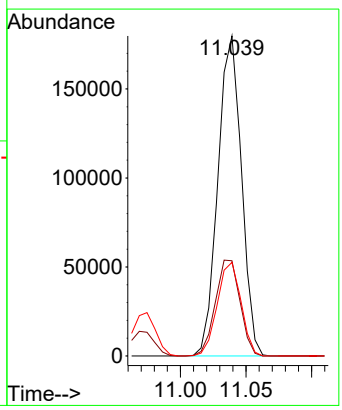


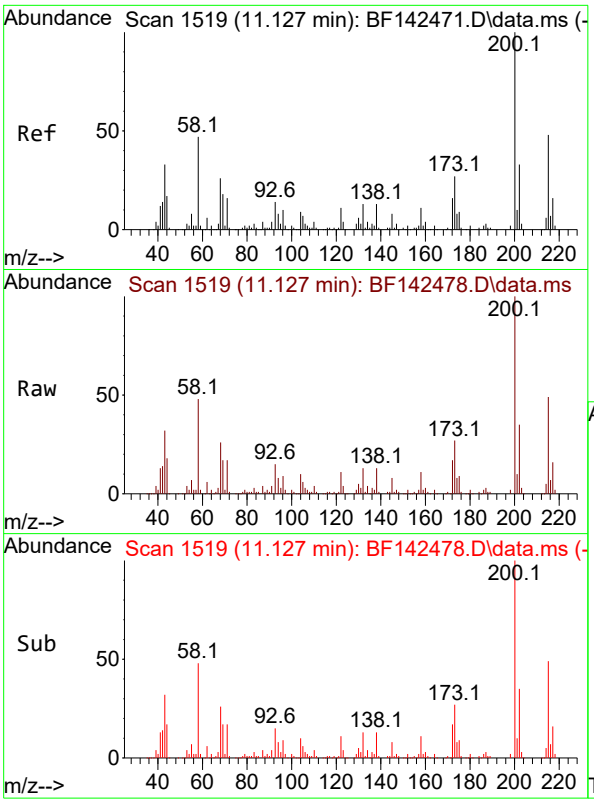


#68
Hexachlorobenzene
Concen: 37.832 ng
RT: 11.039 min Scan# 1504
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:284 Resp: 224843

Ion	Ratio	Lower	Upper
284	100		
142	29.7	24.8	37.2
249	29.3	23.6	35.4



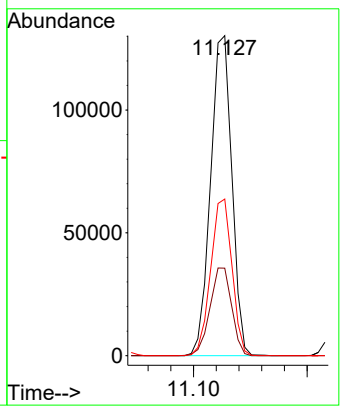


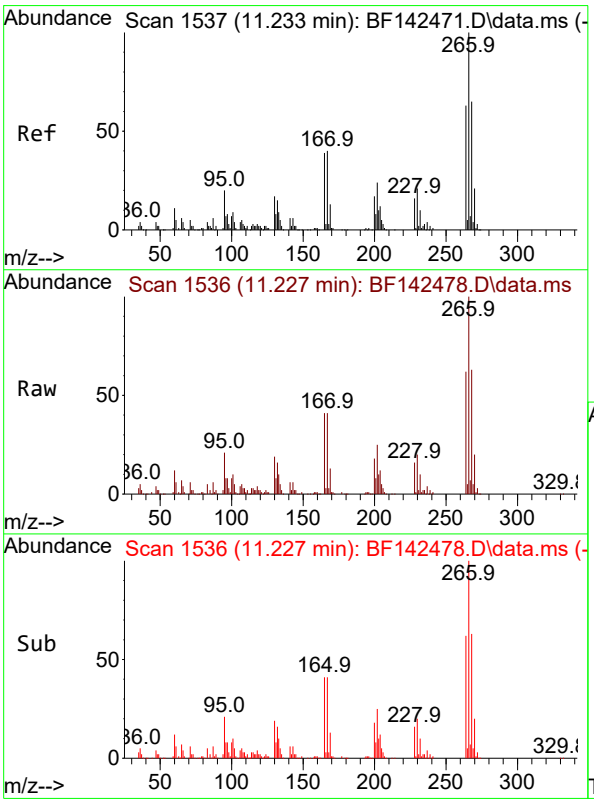
#69
Atrazine
Concen: 41.037 ng
RT: 11.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 169442

Ion	Ratio	Lower	Upper
200	100		
173	27.4	7.4	47.4
215	48.9	28.5	68.5

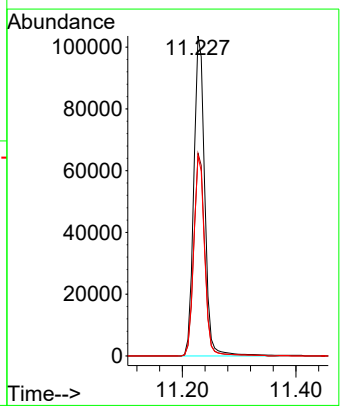


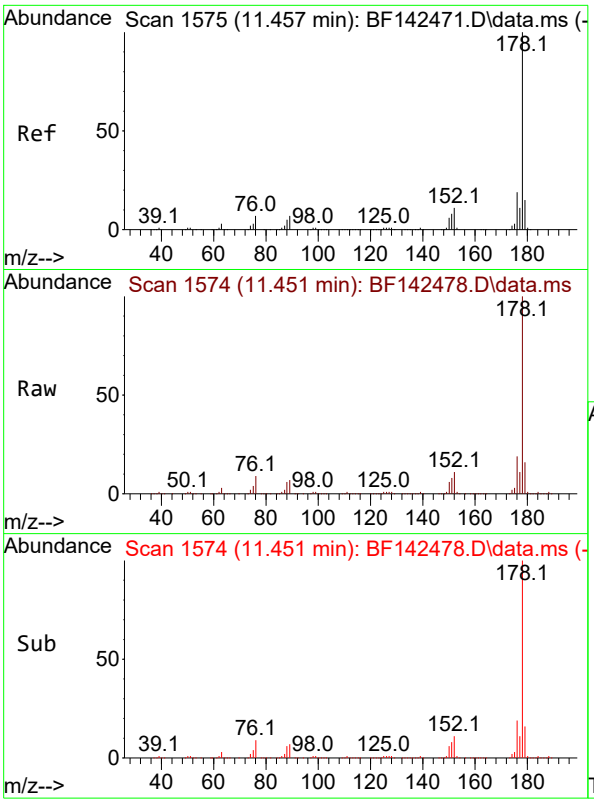


#70
Pentachlorophenol
Concen: 41.451 ng
RT: 11.227 min Scan# 1536
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:266 Resp: 139087

Ion	Ratio	Lower	Upper
266	100		
268	63.3	51.7	77.5
264	62.4	50.4	75.6



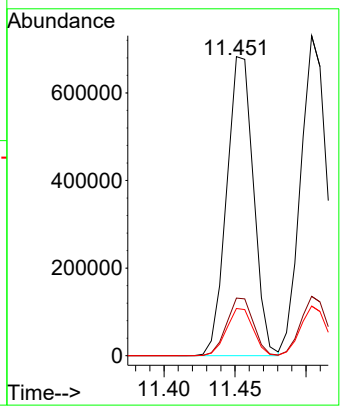


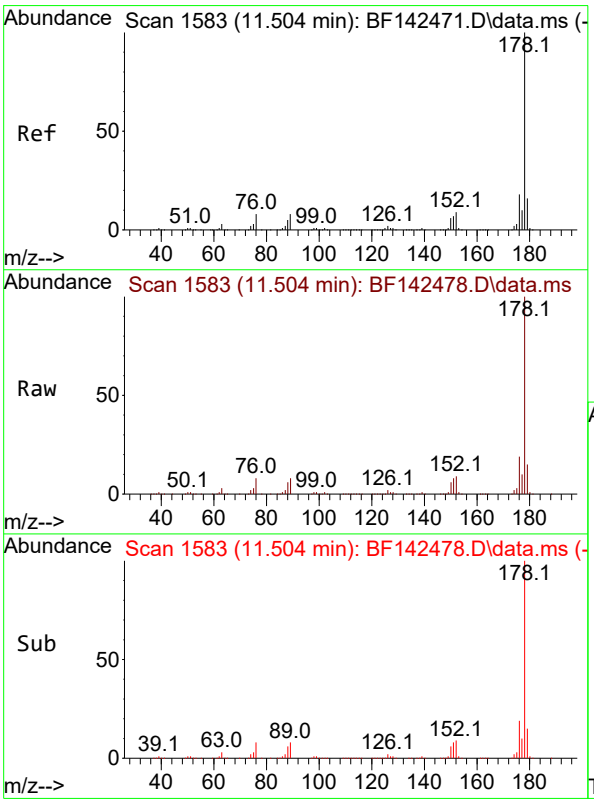
#71
Phenanthrene
Concen: 37.018 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 899035

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.0
179	15.8	12.3	18.5

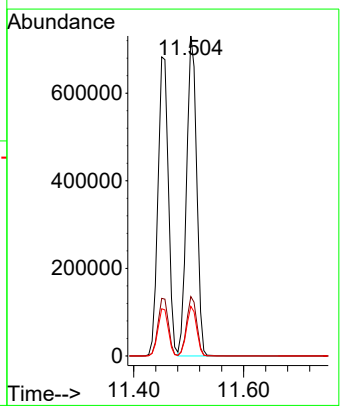


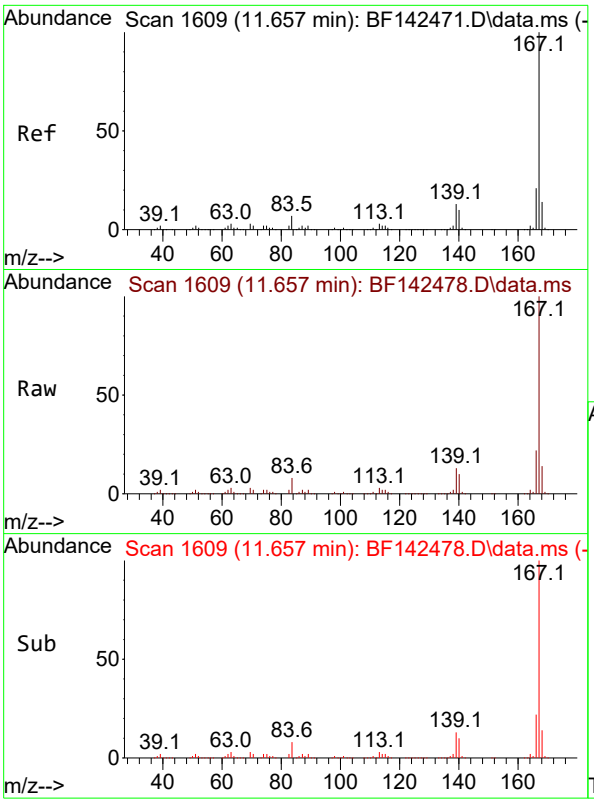


#72
Anthracene
Concen: 37.490 ng
RT: 11.504 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:178 Resp: 929254

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	21.8
179	15.5	12.4	18.6



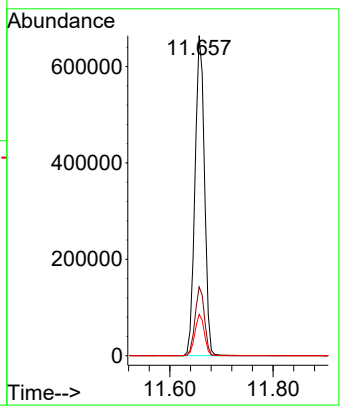


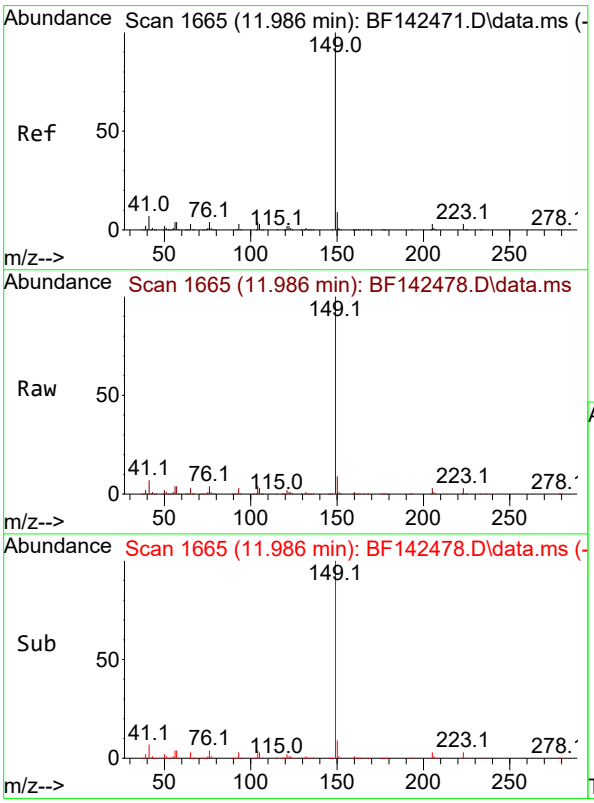
#73
Carbazole
Concen: 39.865 ng
RT: 11.657 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 844734

Ion	Ratio	Lower	Upper
167	100		
166	21.5	16.9	25.3
139	12.9	10.2	15.4

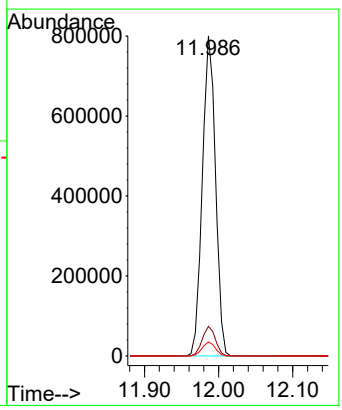


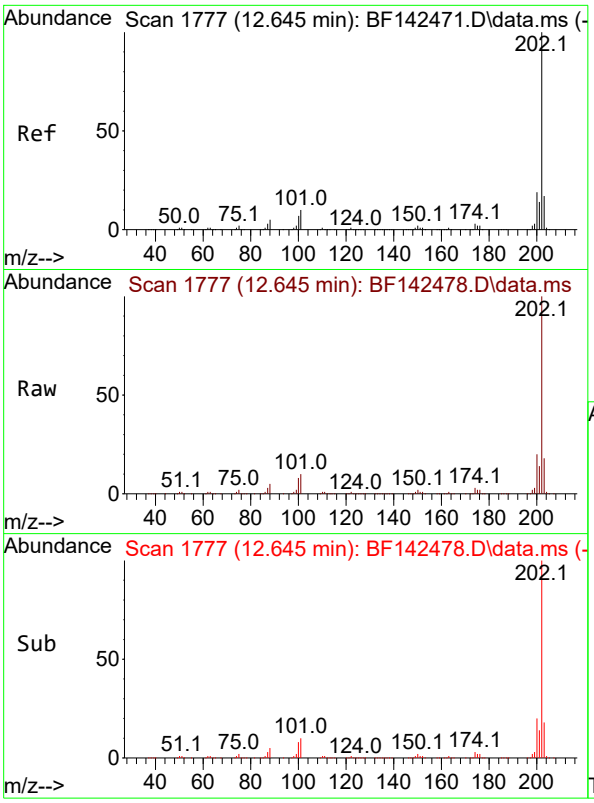


#74
Di-n-butylphthalate
Concen: 42.497 ng
RT: 11.986 min Scan# 1665
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:149 Resp: 985689

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.3	10.9
104	4.4	3.6	5.4



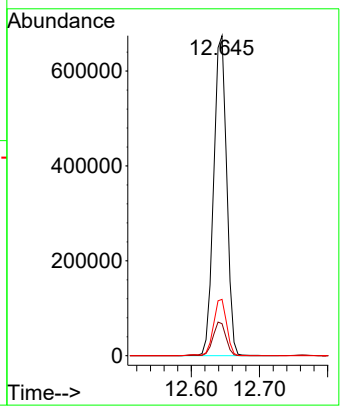


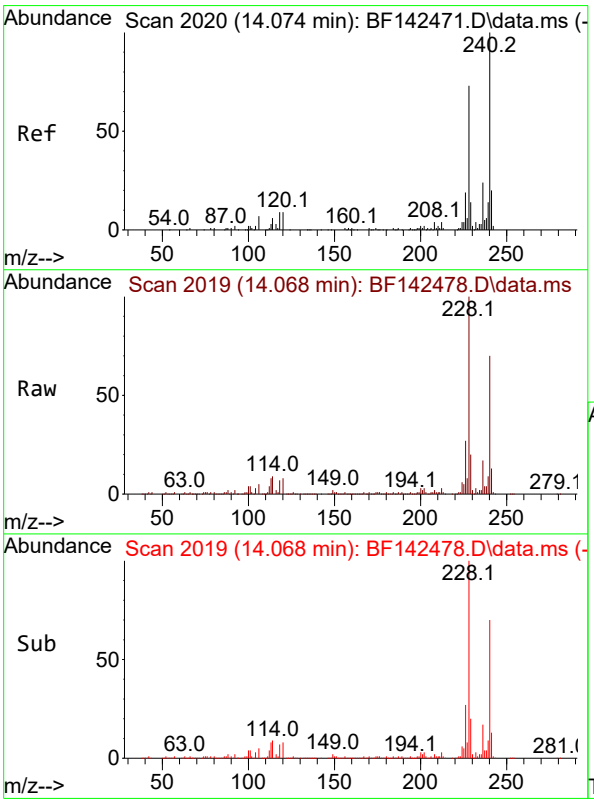
#75
Fluoranthene
Concen: 39.429 ng
RT: 12.645 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 894775

Ion	Ratio	Lower	Upper
202	100		
101	10.0	0.0	29.6
203	17.6	0.0	37.2

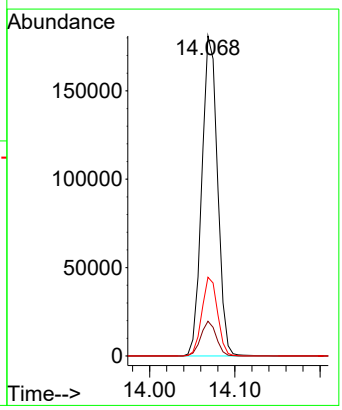


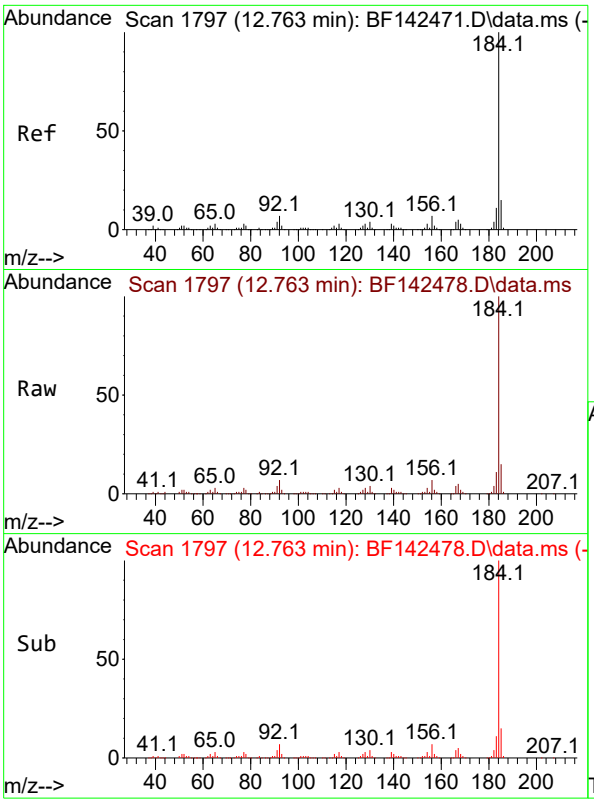


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:240 Resp: 231233

Ion	Ratio	Lower	Upper
240	100		
120	10.9	7.5	11.3
236	24.6	19.6	29.4



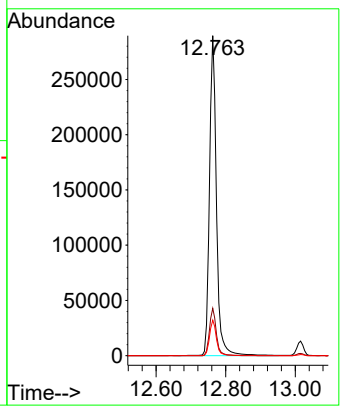


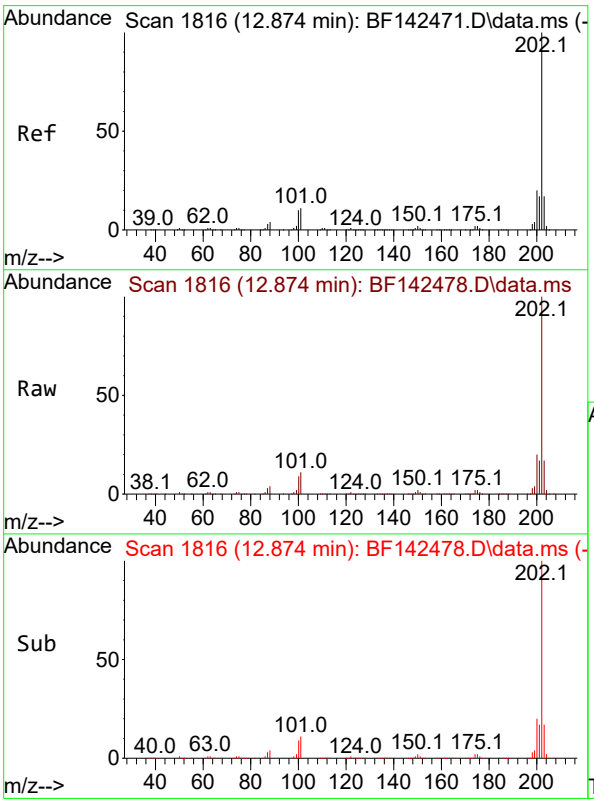
#77
Benzidine
Concen: 46.900 ng
RT: 12.763 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 403570

Ion	Ratio	Lower	Upper
184	100		
185	14.8	11.6	17.4
183	11.1	9.0	13.4

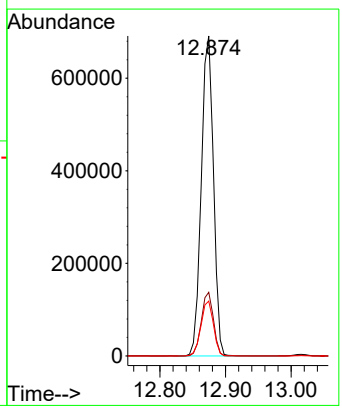


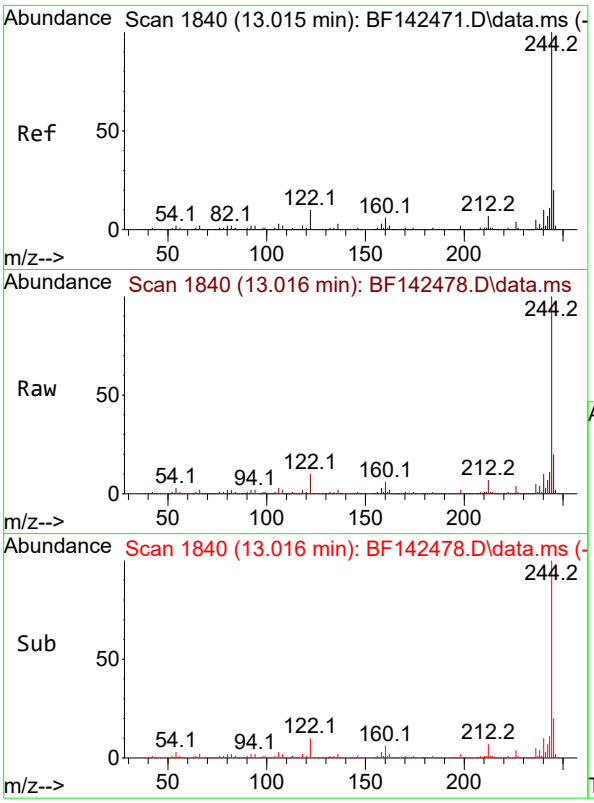


#78
Pyrene
Concen: 41.425 ng
RT: 12.874 min Scan# 1816
Delta R.T. 0.000 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:202 Resp: 893560

Ion	Ratio	Lower	Upper
202	100		
200	19.9	16.1	24.1
203	17.2	13.9	20.9



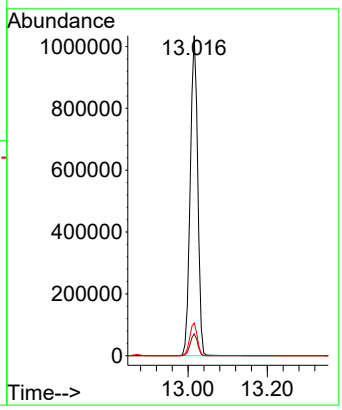


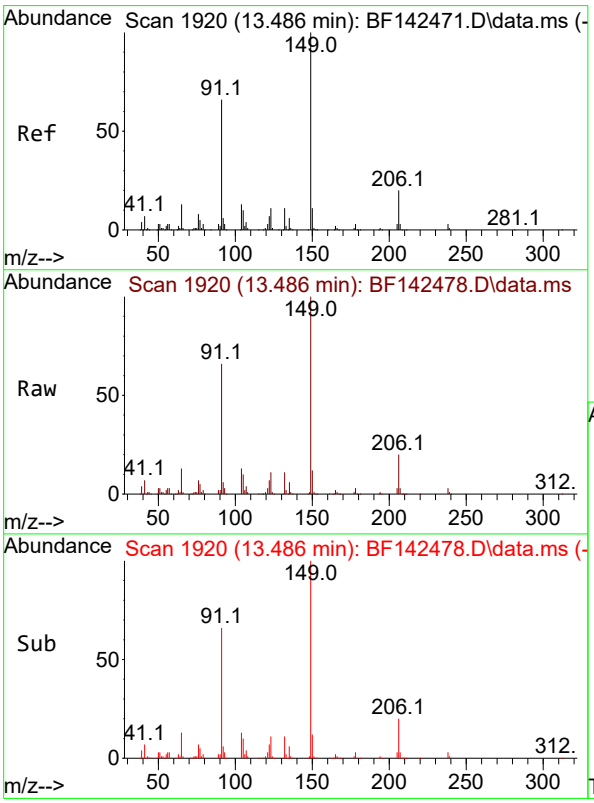
#79
Terphenyl-d14
Concen: 80.120 ng
RT: 13.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 1355714

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.3	7.9
122	10.2	8.2	12.2

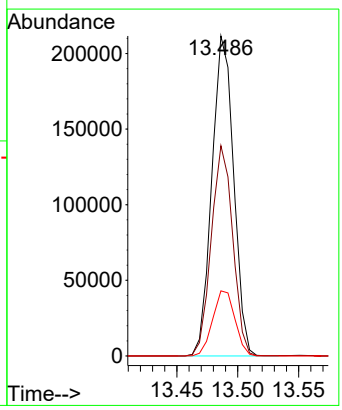


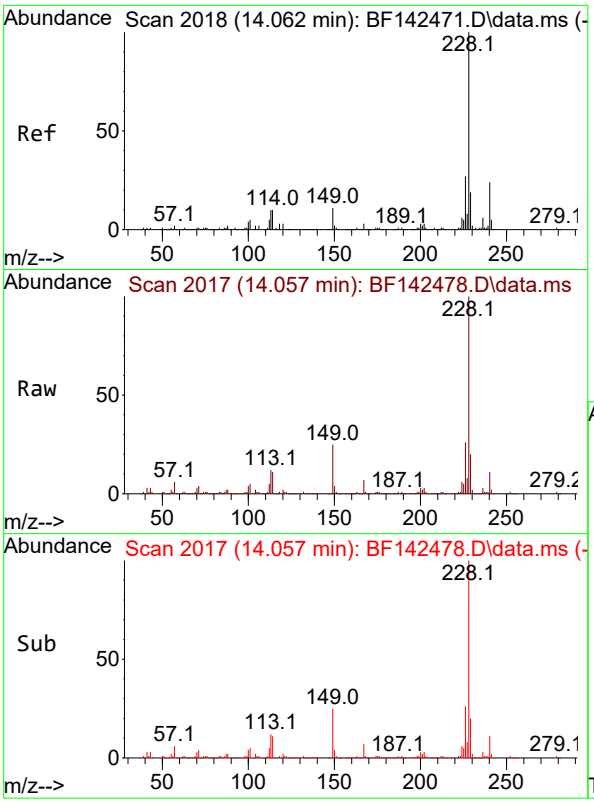


#80
Butylbenzylphthalate
Concen: 44.233 ng
RT: 13.486 min Scan# 1920
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:149 Resp: 263643

Ion	Ratio	Lower	Upper
149	100		
91	65.7	52.9	79.3
206	20.3	16.2	24.2



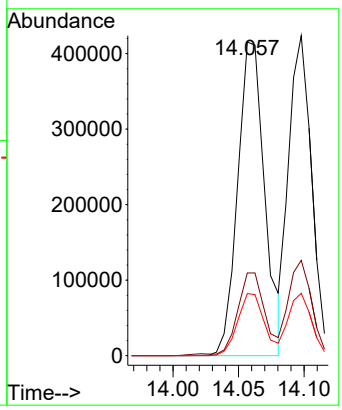


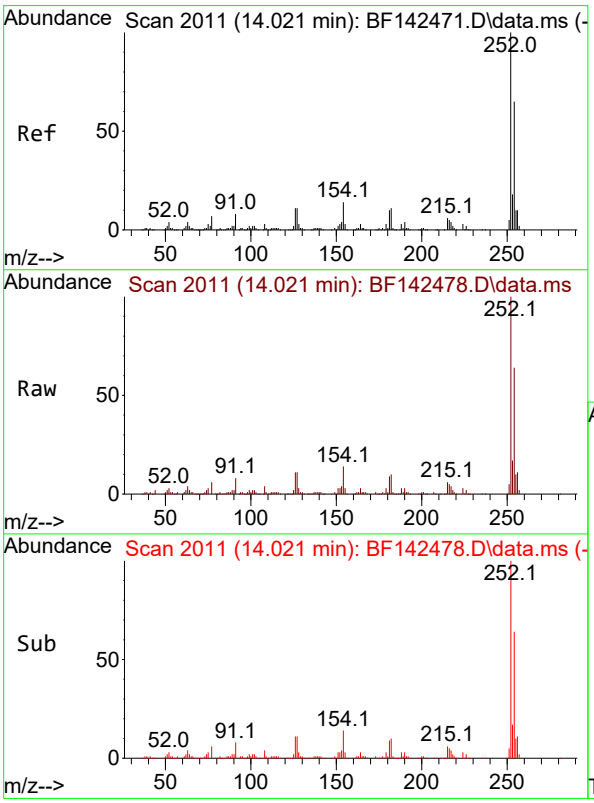
#81
Benzo(a)anthracene
Concen: 38.618 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 596289

Ion	Ratio	Lower	Upper
228	100		
226	26.4	21.2	31.8
229	19.8	15.5	23.3

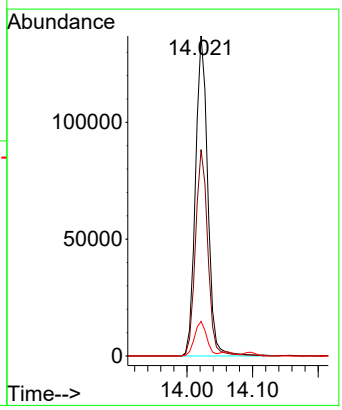


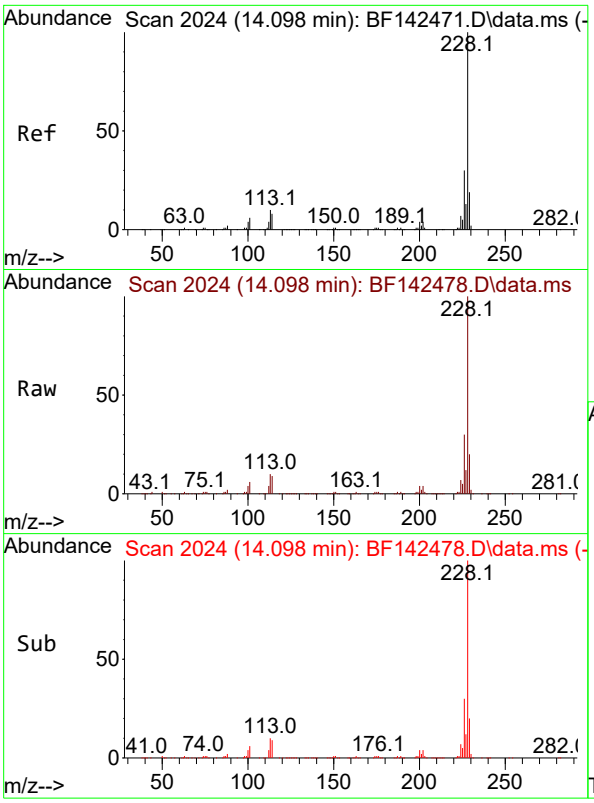


#82
3,3'-Dichlorobenzidine
Concen: 38.244 ng
RT: 14.021 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:252 Resp: 179108

Ion	Ratio	Lower	Upper
252	100		
254	64.5	52.0	78.0
126	10.8	8.9	13.3



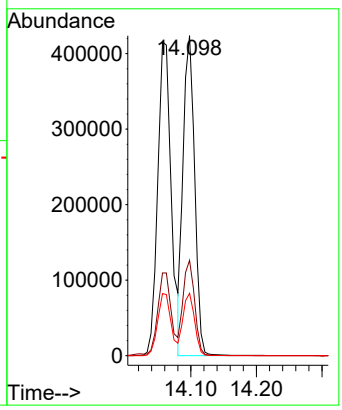


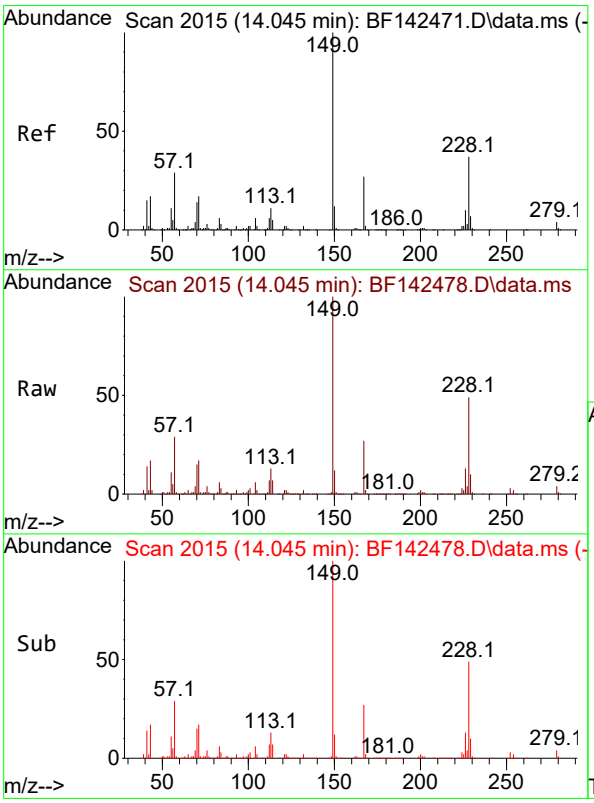
#83
Chrysene
Concen: 37.195 ng
RT: 14.098 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 516059

Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.8	35.6
229	19.5	15.4	23.2

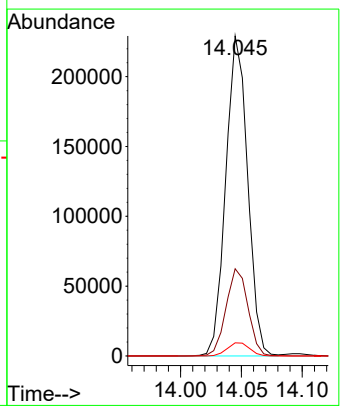


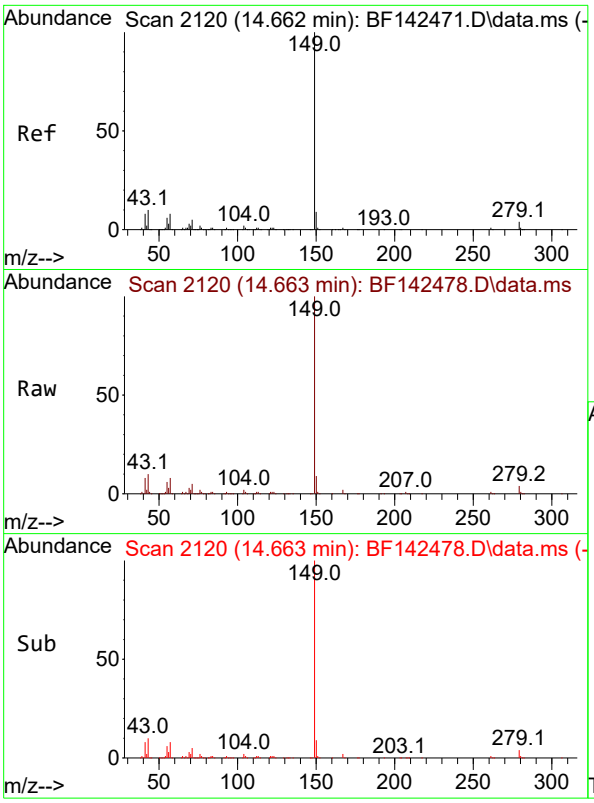


#84
Bis(2-ethylhexyl)phthalate
Concen: 37.565 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:149 Resp: 286630

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.5	32.3
279	4.1	3.2	4.8



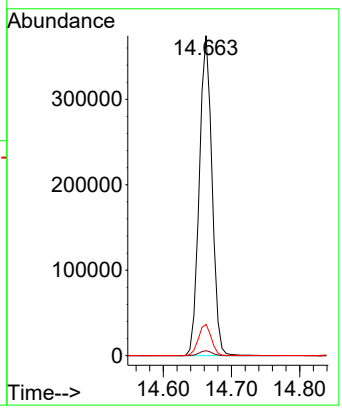


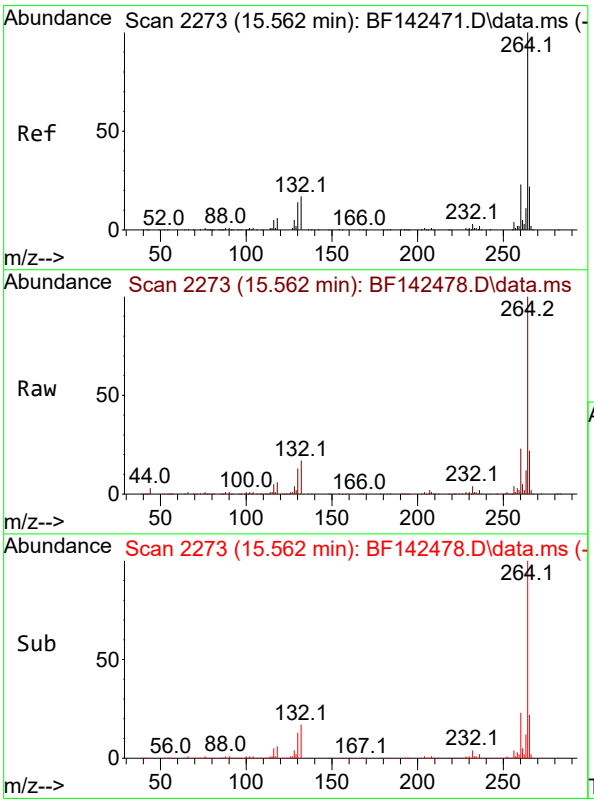
#85
Di-n-octyl phthalate
Concen: 32.510 ng
RT: 14.663 min Scan# 21
Delta R.T. -0.005 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 485024

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	10.1	7.9	11.9

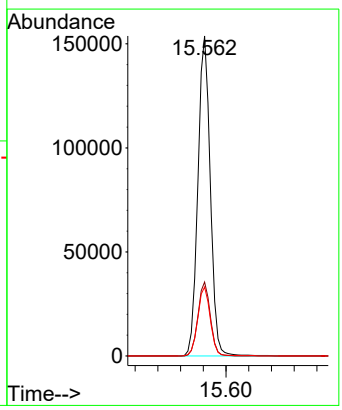


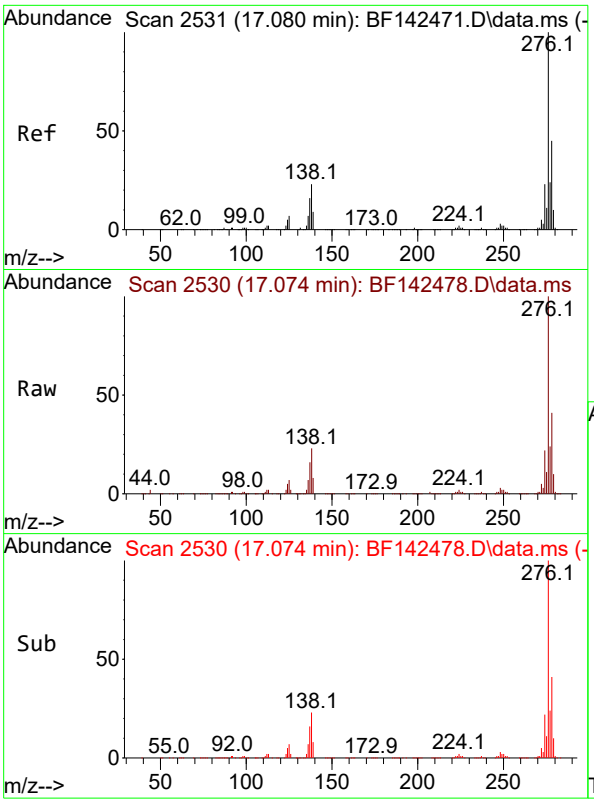


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:264 Resp: 233183

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	28.0
265	21.5	17.7	26.5



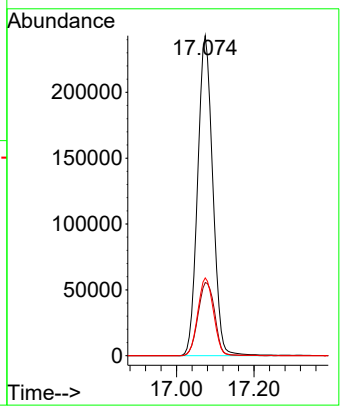


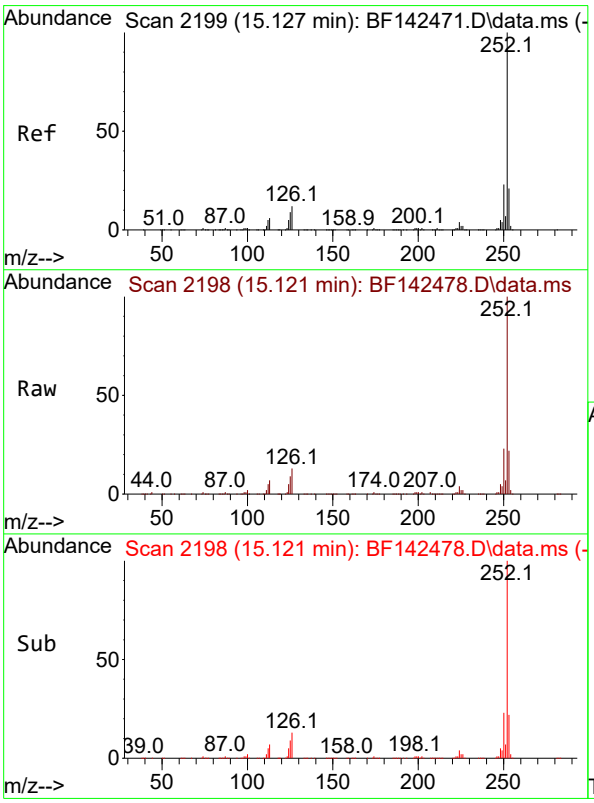
#87
Indeno(1,2,3-cd)pyrene
Concen: 37.546 ng
RT: 17.074 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 657271

Ion	Ratio	Lower	Upper
276	100		
138	25.2	19.9	29.9
277	25.3	20.2	30.2

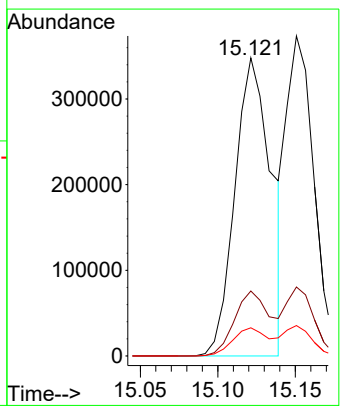


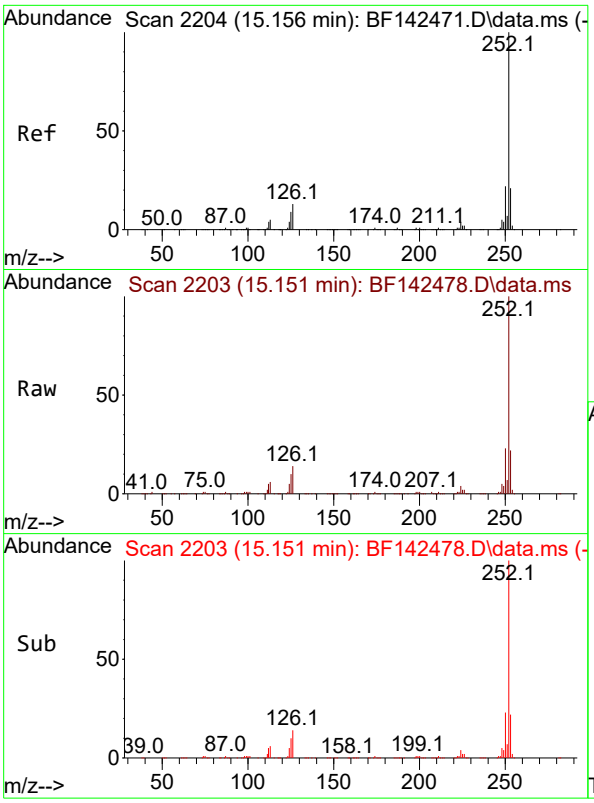


#88
Benzo(b)fluoranthene
Concen: 41.075 ng
RT: 15.121 min Scan# 2198
Delta R.T. -0.006 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:252 Resp: 566876

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.0	25.4
125	9.5	7.4	11.0



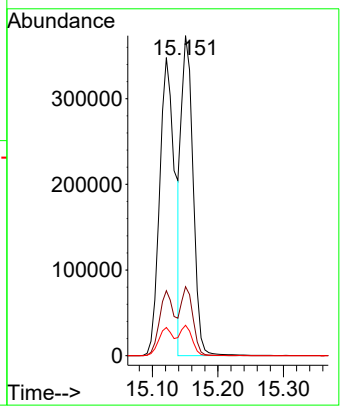


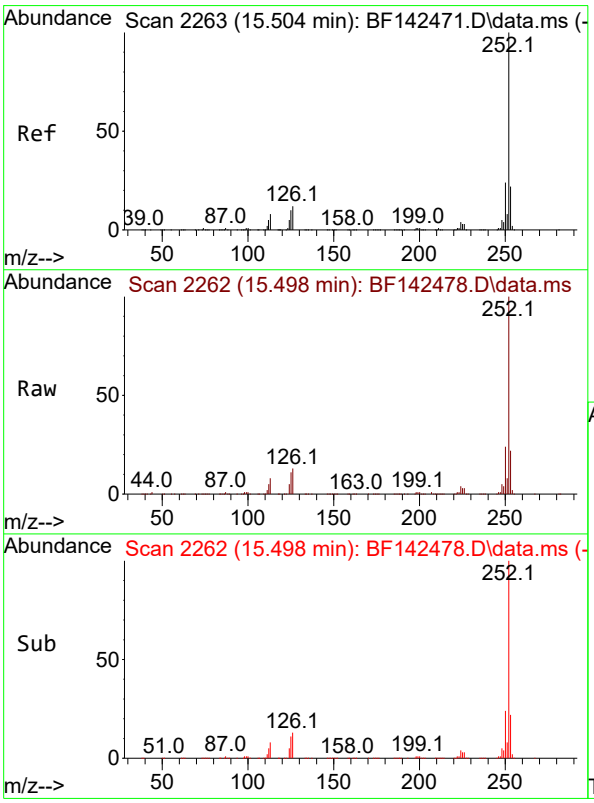
#89
Benzo(k)fluoranthene
Concen: 35.924 ng
RT: 15.151 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 464361

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.0	25.4
125	9.5	7.3	10.9

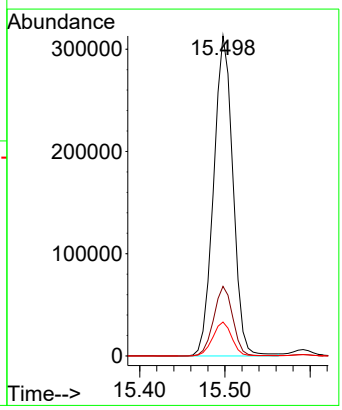


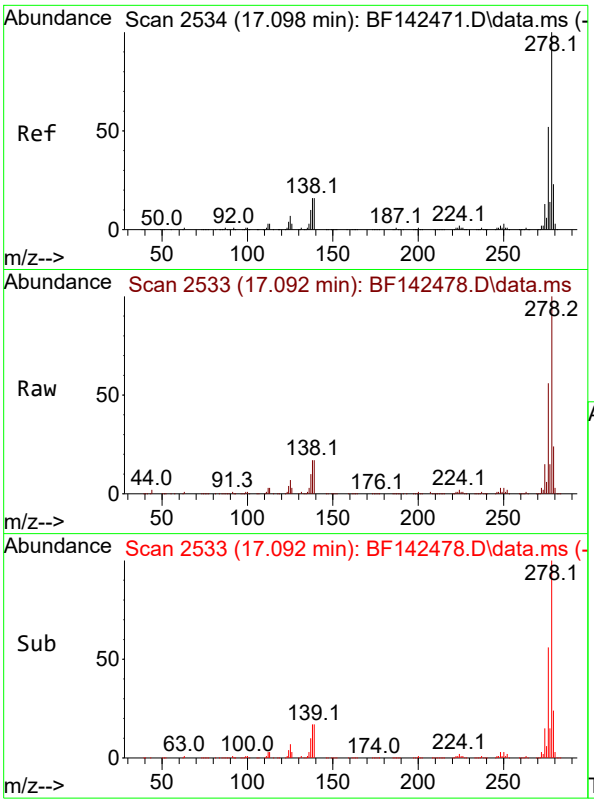


#90
Benzo(a)pyrene
Concen: 38.029 ng
RT: 15.498 min Scan# 2262
Delta R.T. -0.012 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:252 Resp: 494710

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0
125	10.6	7.9	11.9



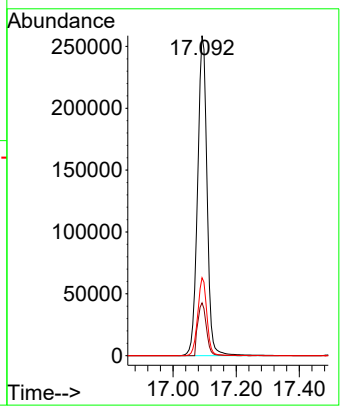


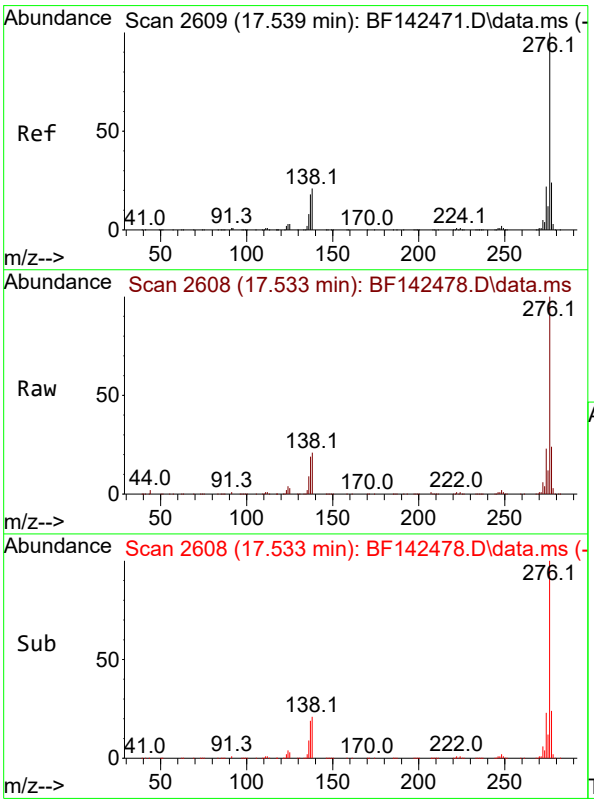
#91
Dibenzo(a,h)anthracene
Concen: 37.965 ng
RT: 17.092 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 539033

Ion	Ratio	Lower	Upper
278	100		
139	16.5	12.8	19.2
279	24.4	18.6	28.0

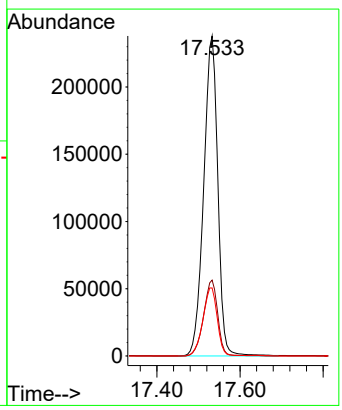




#92
Benzo(g,h,i)perylene
Concen: 39.468 ng
RT: 17.533 min Scan# 2608
Delta R.T. -0.023 min
Lab File: BF142478.D
Acq: 21 May 2025 10:40

Tgt Ion:276 Resp: 560492

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.2	28.8
138	21.2	16.8	25.2



Sample Results: **BF142478.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142478.D
Acq On : 21 May 2025 10:40
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: May 21 11:22:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	127	0.00
2		1,4-Dioxane	0.475	0.429	9.7	119	0.00
3		Pyridine	1.210	1.114	7.9	121	0.00
4		n-Nitrosodimethylamine	0.628	0.570	9.2	117	-0.02
5	S	2-Fluorophenol	1.187	1.087	8.4	123	0.00
6		Aniline	1.921	1.876	2.3	129	0.00
7	S	Phenol-d6	1.429	1.358	5.0	126	-0.01
8		2-Chlorophenol	1.293	1.186	8.3	120	0.00
9		Benzaldehyde	0.859	0.796	7.3	124	0.00
10	C	Phenol	1.608	1.558	3.1	129	-0.01
11		bis(2-Chloroethyl)ether	1.157	1.067	7.8	123	0.00
12		1,3-Dichlorobenzene	1.443	1.339	7.2	123	0.00
13	C	1,4-Dichlorobenzene	1.453	1.373	5.5	124	0.00
14		1,2-Dichlorobenzene	1.391	1.312	5.7	126	0.00
15		Benzyl Alcohol	1.056	0.994	5.9	124	0.00
16		2,2'-oxybis(1-Chloropropane	1.944	1.877	3.4	128	0.00
17		2-Methylphenol	1.010	0.970	4.0	126	0.00
18		Hexachloroethane	0.507	0.456	10.1	118	0.00
19	P	n-Nitroso-di-n-propylamine	0.886	0.800	9.7	121	-0.02
20		3+4-Methylphenols	1.293	1.183	8.5	121	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	126	0.00
22		Acetophenone	0.443	0.405	8.6	119	0.00
23	S	Nitrobenzene-d5	0.367	0.343	6.5	121	-0.01
24		Nitrobenzene	0.331	0.317	4.2	124	0.00
25		Isophorone	0.613	0.568	7.3	121	-0.01
26	C	2-Nitrophenol	0.177	0.174	1.7	125	0.00
27		2,4-Dimethylphenol	0.312	0.300	3.8	125	0.00
28		bis(2-Chloroethoxy)methane	0.383	0.364	5.0	126	0.00
29	C	2,4-Dichlorophenol	0.283	0.278	1.8	127	0.00
30		1,2,4-Trichlorobenzene	0.308	0.291	5.5	124	0.00
31		Naphthalene	0.985	0.928	5.8	124	0.00
32		Benzoic acid	0.190	0.195	-2.6	131	-0.04
33		4-Chloroaniline	0.399	0.393	1.5	127	0.00
34	C	Hexachlorobutadiene	0.192	0.182	5.2	123	0.00
35		Caprolactam	0.080	0.084	-5.0	135	-0.02
36	C	4-Chloro-3-methylphenol	0.291	0.287	1.4	128	-0.01
37		2-Methylnaphthalene	0.620	0.570	8.1	122	0.00
38		1-Methylnaphthalene	0.641	0.604	5.8	124	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	125	0.00
40		1,2,4,5-Tetrachlorobenzene	0.574	0.545	5.1	124	0.00
41	P	Hexachlorocyclopentadiene	0.387	0.381	1.6	122	0.00
42	S	2,4,6-Tribromophenol	0.222	0.225	-1.4	133	0.00
43	C	2,4,6-Trichlorophenol	0.387	0.383	1.0	129	0.00
44		2,4,5-Trichlorophenol	0.408	0.396	2.9	126	0.00
45	S	2-Fluorobiphenyl	1.490	1.373	7.9	124	0.00
46		1,1'-Biphenyl	1.552	1.477	4.8	125	0.00
47		2-Chloronaphthalene	1.146	1.098	4.2	126	0.00

Sample Results: **BF142478.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142478.D
Acq On : 21 May 2025 10:40
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: May 21 11:22:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.331	0.331	0.0	128	0.00
49		Acenaphthylene	1.936	1.795	7.3	122	0.00
50		Dimethylphthalate	1.320	1.241	6.0	124	0.00
51		2,6-Dinitrotoluene	0.285	0.278	2.5	124	0.00
52	C	Acenaphthene	1.182	1.125	4.8	126	0.00
53		3-Nitroaniline	0.311	0.312	-0.3	131	0.00
54	P	2,4-Dinitrophenol	0.147	0.159	-8.2	134	-0.01
55		Dibenzofuran	1.701	1.672	1.7	131	0.00
56	P	4-Nitrophenol	0.230	0.243	-5.7	134	0.00
57		2,4-Dinitrotoluene	0.372	0.383	-3.0	132	0.00
58		Fluorene	1.314	1.229	6.5	125	0.00
59		2,3,4,6-Tetrachlorophenol	0.341	0.346	-1.5	130	0.00
60		Diethylphthalate	1.289	1.286	0.2	131	0.00
61		4-Chlorophenyl-phenylether	0.646	0.606	6.2	125	0.00
62		4-Nitroaniline	0.282	0.296	-5.0	134	-0.01
63		Azobenzene	1.158	1.160	-0.2	131	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	132	0.00
65		4,6-Dinitro-2-methylphenol	0.112	0.119	-6.2	137	0.00
66	c	n-Nitrosodiphenylamine	0.684	0.641	6.3	131	0.00
67		4-Bromophenyl-phenylether	0.236	0.219	7.2	131	0.00
68		Hexachlorobenzene	0.262	0.247	5.7	131	0.00
69		Atrazine	0.182	0.186	-2.2	139	0.00
70	C	Pentachlorophenol	0.148	0.153	-3.4	138	0.00
71		Phenanthrene	1.069	0.989	7.5	130	0.00
72		Anthracene	1.091	1.022	6.3	131	0.00
73		Carbazole	0.933	0.929	0.4	138	0.00
74		Di-n-butylphthalate	1.021	1.084	-6.2	147	0.00
75	C	Fluoranthene	0.999	0.984	1.5	139	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	137	0.00
77		Benzidine	0.744	0.873	-17.3	150	0.00
78		Pyrene	1.866	1.932	-3.5	142	0.00
79	S	Terphenyl-d14	1.464	1.466	-0.1	141	0.00
80		Butylbenzylphthalate	0.516	0.570	-10.5	148	0.00
81		Benzo(a)anthracene	1.336	1.289	3.5	138	0.00
82		3,3'-Dichlorobenzidine	0.405	0.387	4.4	130	0.00
83		Chrysene	1.200	1.116	7.0	133	0.00
84		Bis(2-ethylhexyl)phthalate	0.660	0.620	6.1	126	0.00
85	c	Di-n-octyl phthalate	1.290	1.049	18.7	113	0.00
86	I	Perylene-d12	1.000	1.000	0.0	123	0.00
87		Indeno(1,2,3-cd)pyrene	1.501	1.409	6.1	120	-0.02
88		Benzo(b)fluoranthene	1.184	1.216	-2.7	133	0.00
89		Benzo(k)fluoranthene	1.109	0.996	10.2	118	-0.01
90	C	Benzo(a)pyrene	1.116	1.061	4.9	121	-0.01
91		Dibenzo(a,h)anthracene	1.218	1.156	5.1	120	-0.02
92		Benzo(g,h,i)perylene	1.218	1.202	1.3	125	-0.02

Sample Results: **BF142478.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142478.D
Acq On : 21 May 2025 10:40
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: May 21 11:22:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **BF142478.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142478.D
Acq On : 21 May 2025 10:40
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: May 21 11:22:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	127	0.00
2		1,4-Dioxane	40.000	36.089	9.8	119	0.00
3		Pyridine	40.000	36.837	7.9	121	0.00
4		n-Nitrosodimethylamine	40.000	36.282	9.3	117	-0.02
5	S	2-Fluorophenol	80.000	73.250	8.4	123	0.00
6		Aniline	40.000	39.046	2.4	129	0.00
7	S	Phenol-d6	80.000	76.032	5.0	126	-0.01
8		2-Chlorophenol	40.000	36.679	8.3	120	0.00
9		Benzaldehyde	40.000	37.056	7.4	124	0.00
10	C	Phenol	40.000	38.750	3.1	129	-0.01
11		bis(2-Chloroethyl)ether	40.000	36.867	7.8	123	0.00
12		1,3-Dichlorobenzene	40.000	37.123	7.2	123	0.00
13	C	1,4-Dichlorobenzene	40.000	37.795	5.5	124	0.00
14		1,2-Dichlorobenzene	40.000	37.749	5.6	126	0.00
15		Benzyl Alcohol	40.000	37.654	5.9	124	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	38.632	3.4	128	0.00
17		2-Methylphenol	40.000	38.442	3.9	126	0.00
18		Hexachloroethane	40.000	35.909	10.2	118	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	36.112	9.7	121	-0.02
20		3+4-Methylphenols	40.000	36.596	8.5	121	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	126	0.00
22		Acetophenone	40.000	36.591	8.5	119	0.00
23	S	Nitrobenzene-d5	80.000	74.748	6.6	121	-0.01
24		Nitrobenzene	40.000	38.366	4.1	124	0.00
25		Isophorone	40.000	37.046	7.4	121	-0.01
26	C	2-Nitrophenol	40.000	39.404	1.5	125	0.00
27		2,4-Dimethylphenol	40.000	38.464	3.8	125	0.00
28		bis(2-Chloroethoxy)methane	40.000	38.052	4.9	126	0.00
29	C	2,4-Dichlorophenol	40.000	39.287	1.8	127	0.00
30		1,2,4-Trichlorobenzene	40.000	37.854	5.4	124	0.00
31		Naphthalene	40.000	37.710	5.7	124	0.00
32		Benzoic acid	40.000	41.165	-2.9	131	-0.04
33		4-Chloroaniline	40.000	39.361	1.6	127	0.00
34	C	Hexachlorobutadiene	40.000	37.923	5.2	123	0.00
35		Caprolactam	40.000	42.190	-5.5	135	-0.02
36	C	4-Chloro-3-methylphenol	40.000	39.543	1.1	128	-0.01
37		2-Methylnaphthalene	40.000	36.785	8.0	122	0.00
38		1-Methylnaphthalene	40.000	37.677	5.8	124	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	125	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	37.950	5.1	124	0.00
41	P	Hexachlorocyclopentadiene	40.000	39.361	1.6	122	0.00
42	S	2,4,6-Tribromophenol	80.000	80.978	-1.2	133	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.608	1.0	129	0.00
44		2,4,5-Trichlorophenol	40.000	38.818	3.0	126	0.00
45	S	2-Fluorobiphenyl	80.000	73.721	7.8	124	0.00
46		1,1'-Biphenyl	40.000	38.077	4.8	125	0.00
47		2-Chloronaphthalene	40.000	38.309	4.2	126	0.00

Sample Results: **BF142478.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142478.D
Acq On : 21 May 2025 10:40
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: May 21 11:22:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	39.983	0.0	128	0.00
49		Acenaphthylene	40.000	37.095	7.3	122	0.00
50		Dimethylphthalate	40.000	37.620	6.0	124	0.00
51		2,6-Dinitrotoluene	40.000	39.000	2.5	124	0.00
52	C	Acenaphthene	40.000	38.082	4.8	126	0.00
53		3-Nitroaniline	40.000	40.154	-0.4	131	0.00
54	P	2,4-Dinitrophenol	40.000	43.128	-7.8	134	-0.01
55		Dibenzofuran	40.000	39.319	1.7	131	0.00
56	P	4-Nitrophenol	40.000	42.389	-6.0	134	0.00
57		2,4-Dinitrotoluene	40.000	41.203	-3.0	132	0.00
58		Fluorene	40.000	37.421	6.4	125	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	40.584	-1.5	130	0.00
60		Diethylphthalate	40.000	39.920	0.2	131	0.00
61		4-Chlorophenyl-phenylether	40.000	37.531	6.2	125	0.00
62		4-Nitroaniline	40.000	41.934	-4.8	134	-0.01
63		Azobenzene	40.000	40.078	-0.2	131	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	132	0.00
65		4,6-Dinitro-2-methylphenol	40.000	42.732	-6.8	137	0.00
66	c	n-Nitrosodiphenylamine	40.000	37.498	6.3	131	0.00
67		4-Bromophenyl-phenylether	40.000	37.092	7.3	131	0.00
68		Hexachlorobenzene	40.000	37.832	5.4	131	0.00
69		Atrazine	40.000	41.037	-2.6	139	0.00
70	C	Pentachlorophenol	40.000	41.451	-3.6	138	0.00
71		Phenanthrene	40.000	37.018	7.5	130	0.00
72		Anthracene	40.000	37.490	6.3	131	0.00
73		Carbazole	40.000	39.865	0.3	138	0.00
74		Di-n-butylphthalate	40.000	42.497	-6.2	147	0.00
75	C	Fluoranthene	40.000	39.429	1.4	139	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	137	0.00
77		Benzidine	40.000	46.900	-17.2	150	0.00
78		Pyrene	40.000	41.425	-3.6	142	0.00
79	S	Terphenyl-d14	80.000	80.120	-0.2	141	0.00
80		Butylbenzylphthalate	40.000	44.233	-10.6	148	0.00
81		Benzo(a)anthracene	40.000	38.618	3.5	138	0.00
82		3,3'-Dichlorobenzidine	40.000	38.244	4.4	130	0.00
83		Chrysene	40.000	37.195	7.0	133	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	37.565	6.1	126	0.00
85	c	Di-n-octyl phthalate	40.000	32.510	18.7	113	0.00
86	I	Perylene-d12	20.000	20.000	0.0	123	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	37.546	6.1	120	-0.02
88		Benzo(b)fluoranthene	40.000	41.075	-2.7	133	0.00
89		Benzo(k)fluoranthene	40.000	35.924	10.2	118	-0.01
90	C	Benzo(a)pyrene	40.000	38.029	4.9	121	-0.01
91		Dibenzo(a,h)anthracene	40.000	37.965	5.1	120	-0.02
92		Benzo(g,h,i)perylene	40.000	39.468	1.3	125	-0.02

Sample Results: **BF142478.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142478.D
Acq On : 21 May 2025 10:40
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: May 21 11:22:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

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

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

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Raw Data: **BF142502.D**

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG No.: Q2074

Instrument ID: BNA_F Calibration Date/Time: 05/22/2025 11:11

Lab File ID: BF142502.D Init. Calib. Date(s): 05/20/2025 05/20/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:10 15:31

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.187	1.158		-2.4	
Benzaldehyde	0.859	0.845		-1.6	
Phenol-d6	1.429	1.379		-3.5	
Phenol	1.608	1.566		-2.6	20.0
bis(2-Chloroethyl)ether	1.157	1.111		-4.0	
2-Chlorophenol	1.293	1.264		-2.2	
2-Methylphenol	1.010	0.982		-2.8	
2,2-oxybis(1-Chloropropane)	1.944	1.852		-4.7	
Acetophenone	0.443	0.423		-4.5	
3+4-Methylphenols	1.293	1.242		-3.9	
n-Nitroso-di-n-propylamine	0.886	0.821	0.050	-7.3	
Nitrobenzene-d5	0.367	0.356		-3.0	
Hexachloroethane	0.507	0.483		-4.7	
Nitrobenzene	0.331	0.321		-3.0	
Isophorone	0.613	0.568		-7.3	
2-Nitrophenol	0.177	0.173		-2.3	20.0
2,4-Dimethylphenol	0.312	0.302		-3.2	
bis(2-Chloroethoxy)methane	0.383	0.360		-6.0	
2,4-Dichlorophenol	0.283	0.276		-2.5	20.0
Naphthalene	0.985	0.939		-4.7	
4-Chloroaniline	0.399	0.383		-4.0	
Hexachlorobutadiene	0.192	0.181		-5.7	20.0
Caprolactam	0.080	0.075		-6.3	
4-Chloro-3-methylphenol	0.291	0.277		-4.8	20.0
2-Methylnaphthalene	0.620	0.578		-6.8	
Hexachlorocyclopentadiene	0.387	0.382	0.050	-1.3	
2,4,6-Trichlorophenol	0.387	0.383		-1.0	20.0
2-Fluorobiphenyl	1.490	1.389		-6.8	
2,4,5-Trichlorophenol	0.408	0.386		-5.4	
1,1-Biphenyl	1.552	1.481		-4.6	
2-Chloronaphthalene	1.146	1.107		-3.4	
2-Nitroaniline	0.331	0.322		-2.7	
Dimethylphthalate	1.320	1.214		-8.0	
Acenaphthylene	1.936	1.864		-3.7	
2,6-Dinitrotoluene	0.285	0.267		-6.3	
3-Nitroaniline	0.311	0.303		-2.6	
Acenaphthene	1.182	1.118		-5.4	20.0
2,4-Dinitrophenol	0.147	0.138	0.050	-6.1	
4-Nitrophenol	0.230	0.220	0.050	-4.3	

Raw Data: **BF142502.D**

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG No.: Q2074

Instrument ID: BNA_F Calibration Date/Time: 05/22/2025 11:11

Lab File ID: BF142502.D Init. Calib. Date(s): 05/20/2025 05/20/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:10 15:31

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.701	1.610		-5.3	
2,4-Dinitrotoluene	0.372	0.356		-4.3	
Diethylphthalate	1.289	1.147		-11.0	
4-Chlorophenyl-phenylether	0.646	0.596		-7.7	
Fluorene	1.314	1.233		-6.2	
4-Nitroaniline	0.282	0.266		-5.7	
4,6-Dinitro-2-methylphenol	0.112	0.111		-0.9	
n-Nitrosodiphenylamine	0.684	0.661		-3.4	20.0
2,4,6-Tribromophenol	0.222	0.208		-6.3	
4-Bromophenyl-phenylether	0.236	0.224		-5.1	
Hexachlorobenzene	0.262	0.251		-4.2	
Atrazine	0.182	0.157		-13.7	
Pentachlorophenol	0.148	0.146		-1.4	20.0
Phenanthrene	1.069	1.009		-5.6	
Anthracene	1.091	1.031		-5.5	
Carbazole	0.933	0.863		-7.5	
Di-n-butylphthalate	1.021	0.823		-19.4	
Fluoranthene	0.999	0.878		-12.1	20.0
Pyrene	1.866	1.705		-8.6	
Terphenyl-d14	1.464	1.259		-14.0	
Butylbenzylphthalate	0.516	0.496		-3.9	
3,3-Dichlorobenzidine	0.405	0.443		9.4	
Benzo(a)anthracene	1.336	1.258		-5.8	
Chrysene	1.200	1.136		-5.3	
Bis(2-ethylhexyl)phthalate	0.660	0.801		21.4	
Di-n-octyl phthalate	1.290	1.410		9.3	20.0
Benzo(b)fluoranthene	1.184	1.087		-8.2	
Benzo(k)fluoranthene	1.109	1.044		-5.9	
Benzo(a)pyrene	1.116	1.078		-3.4	20.0
Indeno(1,2,3-cd)pyrene	1.501	1.416		-5.7	
Dibenzo(a,h)anthracene	1.218	1.143		-6.2	
Benzo(g,h,i)perylene	1.218	1.144		-6.1	
1,2,4,5-Tetrachlorobenzene	0.574	0.562		-2.1	
1,4-Dioxane	0.475	0.470		-1.1	20.0
2,3,4,6-Tetrachlorophenol	0.341	0.325		-4.7	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142502.D
Acq On : 22 May 2025 11:11
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: May 22 12:13:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.898	152	96659	20.000	ng		0.00
21) Naphthalene-d8	8.187	136	372701	20.000	ng		0.00
39) Acenaphthene-d10	9.939	164	197309	20.000	ng		0.00
64) Phenanthrene-d10	11.428	188	315055	20.000	ng		0.00
76) Chrysene-d12	14.069	240	157895	20.000	ng		0.00
86) Perylene-d12	15.557	264	195527	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	447564	78.010	ng		0.00
7) Phenol-d6	6.522	99	533057	77.184	ng		-0.01
23) Nitrobenzene-d5	7.463	82	530183	77.570	ng		-0.01
42) 2,4,6-Tribromophenol	10.728	330	164236	74.998	ng		-0.01
45) 2-Fluorobiphenyl	9.257	172	1096499	74.571	ng		-0.01
79) Terphenyl-d14	13.010	244	795345	68.835	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.663	88	90766	39.535	ng		99
3) Pyridine	3.434	79	231131	39.534	ng		98
4) n-Nitrosodimethylamine	3.381	42	121679	40.084	ng		99
6) Aniline	6.563	93	362751	39.064	ng		100
8) 2-Chlorophenol	6.681	128	244389	39.108	ng		98
9) Benzaldehyde	6.451	77	163391	39.334	ng		98
10) Phenol	6.534	94	302742	38.958	ng		100
11) bis(2-Chloroethyl)ether	6.634	93	214791	38.397	ng		99
12) 1,3-Dichlorobenzene	6.840	146	269252	38.613	ng		99
13) 1,4-Dichlorobenzene	6.916	146	269642	38.388	ng		99
14) 1,2-Dichlorobenzene	7.069	146	257431	38.302	ng		99
15) Benzyl Alcohol	7.034	79	197875	38.771	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.175	45	358019	38.111	ng		100
17) 2-Methylphenol	7.145	107	189875	38.917	ng		99
18) Hexachloroethane	7.410	117	93379	38.072	ng		96
19) n-Nitroso-di-n-propyla...	7.310	70	158714	37.081	ng		99
20) 3+4-Methylphenols	7.298	107	240103	38.429	ng	#	88
22) Acetophenone	7.310	105	315101	38.192	ng		98
24) Nitrobenzene	7.481	77	239334	38.825	ng		98
25) Isophorone	7.722	82	423533	37.062	ng		98
26) 2-Nitrophenol	7.798	139	128906	39.135	ng		98
27) 2,4-Dimethylphenol	7.828	122	225314	38.788	ng		99
28) bis(2-Chloroethoxy)met...	7.928	93	268076	37.553	ng		99
29) 2,4-Dichlorophenol	8.040	162	205819	38.961	ng		99
30) 1,2,4-Trichlorobenzene	8.122	180	220024	38.377	ng		98
31) Naphthalene	8.204	128	699587	38.121	ng		100
32) Benzoic acid	7.934	122	140703	39.792	ng		97
33) 4-Chloroaniline	8.251	127	285629	38.411	ng		99
34) Hexachlorobutadiene	8.322	225	134778	37.650	ng		99
35) Caprolactam	8.616	113	55626	37.492	ng		99
36) 4-Chloro-3-methylphenol	8.728	107	206459	38.135	ng		98
37) 2-Methylnaphthalene	8.892	142	430472	37.285	ng		100
38) 1-Methylnaphthalene	8.992	142	448040	37.517	ng		99
40) 1,2,4,5-Tetrachloroben...	9.063	216	221756	39.153	ng		99
41) Hexachlorocyclopentadiene	9.051	237	150573	39.409	ng		99
43) 2,4,6-Trichlorophenol	9.169	196	151013	39.540	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142502.D
Acq On : 22 May 2025 11:11
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: May 22 12:13:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

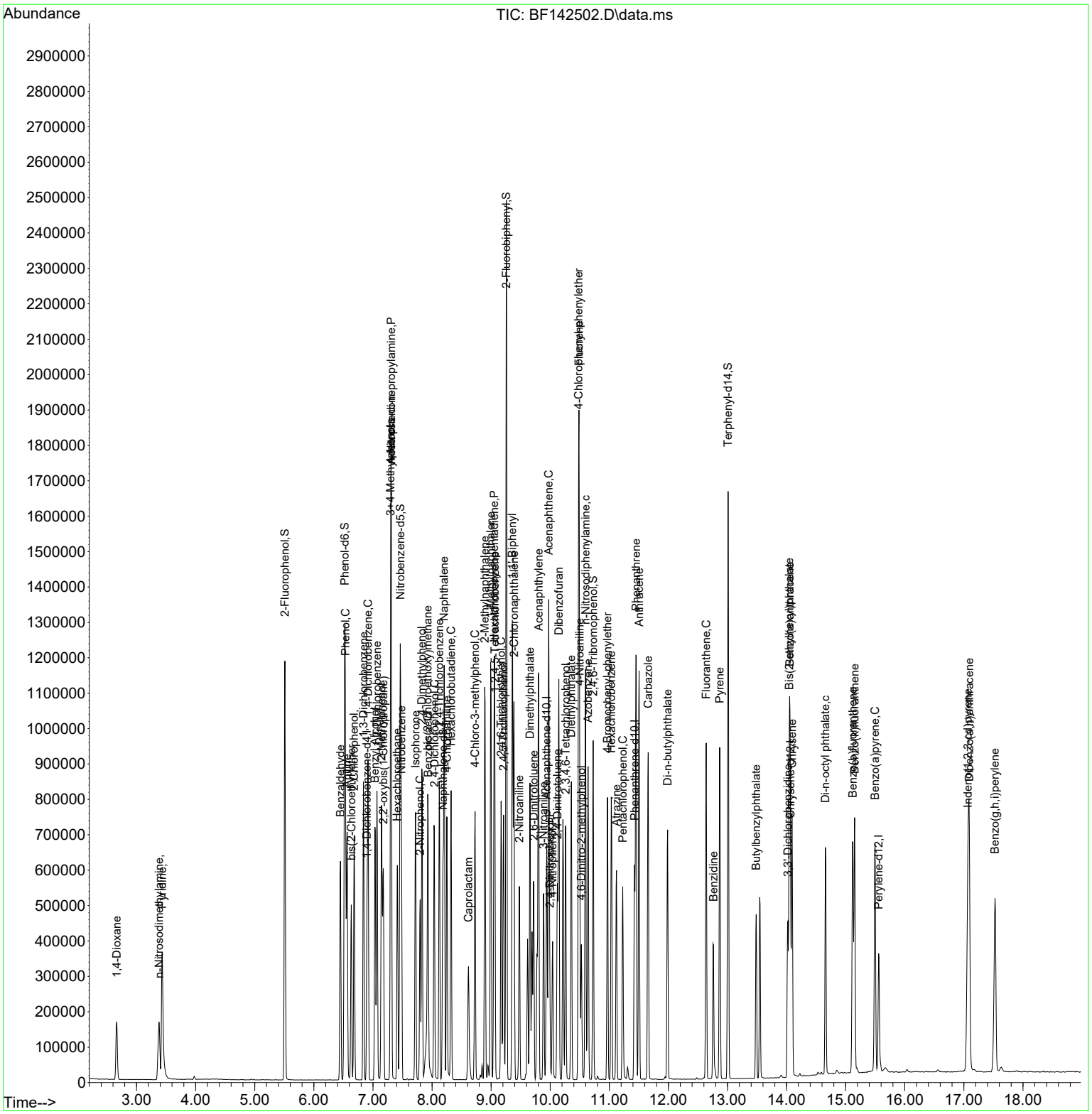
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	2,4,5-Trichlorophenol	9.210	196	152163	37.777	ng		98
46)	1,1'-Biphenyl	9.357	154	584245	38.167	ng		99
47)	2-Chloronaphthalene	9.386	162	436815	38.623	ng		98
48)	2-Nitroaniline	9.475	65	127235	38.921	ng		99
49)	Acenaphthylene	9.804	152	735563	38.516	ng		100
50)	Dimethylphthalate	9.657	163	478872	36.782	ng		100
51)	2,6-Dinitrotoluene	9.722	165	105507	37.548	ng		97
52)	Acenaphthene	9.975	154	441339	37.846	ng		100
53)	3-Nitroaniline	9.886	138	119491	38.933	ng		99
54)	2,4-Dinitrophenol	9.992	184	54378	37.458	ng	#	75
55)	Dibenzofuran	10.145	168	635174	37.851	ng		99
56)	4-Nitrophenol	10.039	139	87011	38.423	ng		99
57)	2,4-Dinitrotoluene	10.122	165	140453	38.274	ng		98
58)	Fluorene	10.486	166	486395	37.519	ng		98
59)	2,3,4,6-Tetrachlorophenol	10.263	232	128136	38.106	ng		99
60)	Diethylphthalate	10.357	149	452810	35.612	ng		99
61)	4-Chlorophenyl-phenyle...	10.481	204	235211	36.933	ng		97
62)	4-Nitroaniline	10.498	138	105151	37.776	ng		99
63)	Azobenzene	10.639	77	421311	36.891	ng		99
65)	4,6-Dinitro-2-methylph...	10.528	198	70104	39.872	ng		96
66)	n-Nitrosodiphenylamine	10.598	169	416459	38.637	ng		99
67)	4-Bromophenyl-phenylether	10.969	248	140846	37.808	ng		99
68)	Hexachlorobenzene	11.033	284	158451	38.456	ng		98
69)	Atrazine	11.122	200	98938	34.563	ng		99
70)	Pentachlorophenol	11.228	266	91869	39.493	ng		96
71)	Phenanthrene	11.451	178	635627	37.751	ng		100
72)	Anthracene	11.504	178	649550	37.800	ng		100
73)	Carbazole	11.657	167	543821	37.019	ng		100
74)	Di-n-butylphthalate	11.986	149	518477	32.244	ng		99
75)	Fluoranthene	12.639	202	553057	35.154	ng		99
77)	Benzidine	12.763	184	236304	40.217	ng		99
78)	Pyrene	12.869	202	538324	36.548	ng		100
80)	Butylbenzylphthalate	13.486	149	156746	38.513	ng		97
81)	Benzo(a)anthracene	14.057	228	397403	37.692	ng		99
82)	3,3'-Dichlorobenzidine	14.021	252	139902	43.748	ng		99
83)	Chrysene	14.092	228	358734	37.865	ng		99
84)	Bis(2-ethylhexyl)phtha...	14.045	149	253005	48.560	ng		99
85)	Di-n-octyl phthalate	14.657	149	445243	43.705	ng		99
87)	Indeno(1,2,3-cd)pyrene	17.068	276	553919	37.736	ng		100
88)	Benzo(b)fluoranthene	15.121	252	425246	36.747	ng		99
89)	Benzo(k)fluoranthene	15.151	252	408277	37.669	ng		99
90)	Benzo(a)pyrene	15.498	252	421492	38.641	ng		99
91)	Dibenzo(a,h)anthracene	17.092	278	447155	37.559	ng		99
92)	Benzo(g,h,i)perylene	17.527	276	447541	37.584	ng		98

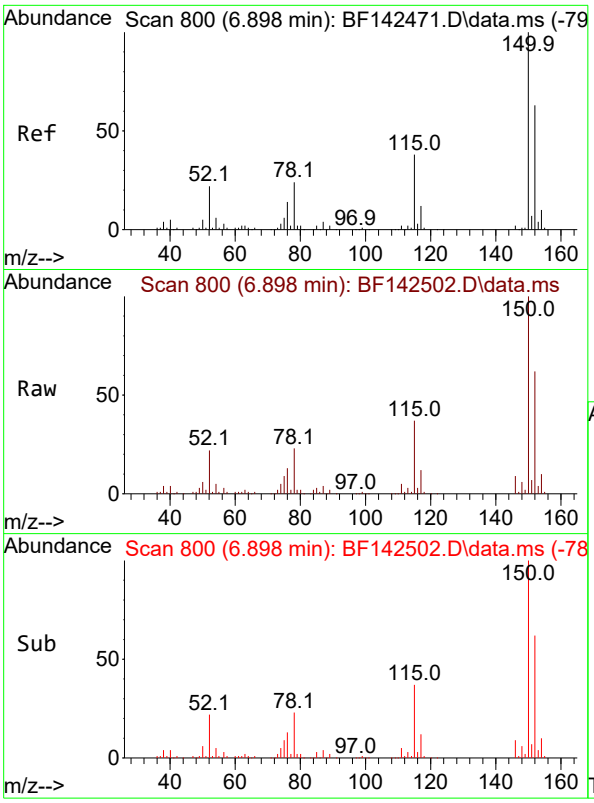
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142502.D
Acq On : 22 May 2025 11:11
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: May 22 12:13:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



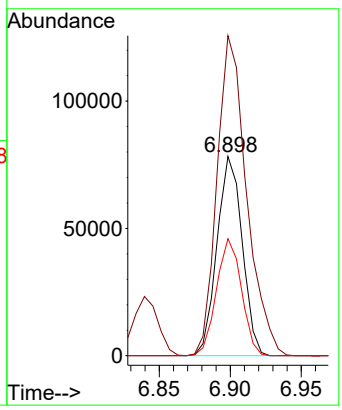


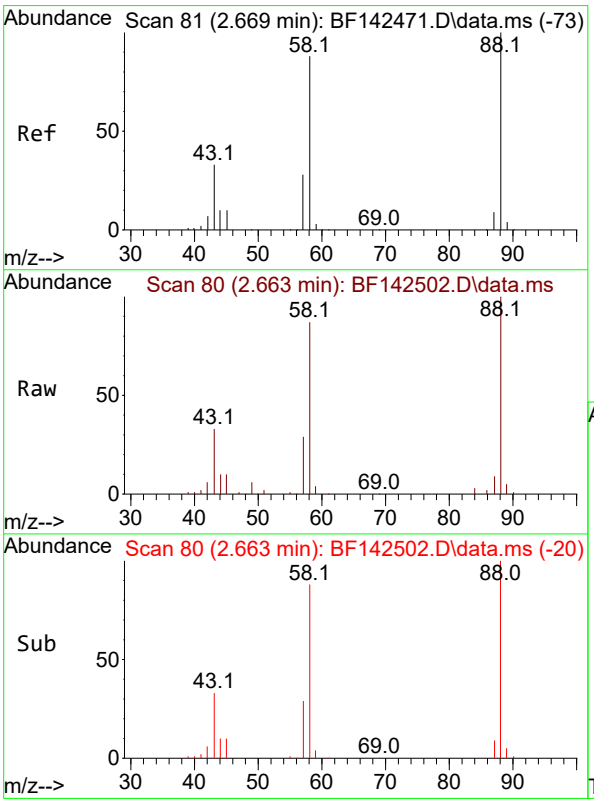
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 96659

Ion	Ratio	Lower	Upper
152	100		
150	160.7	128.2	192.4
115	58.8	48.3	72.5

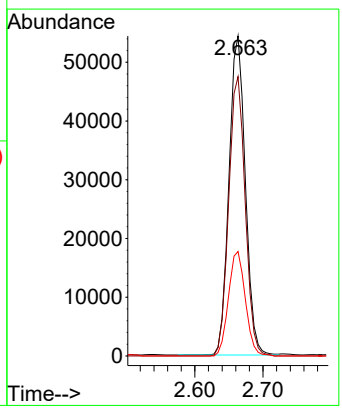


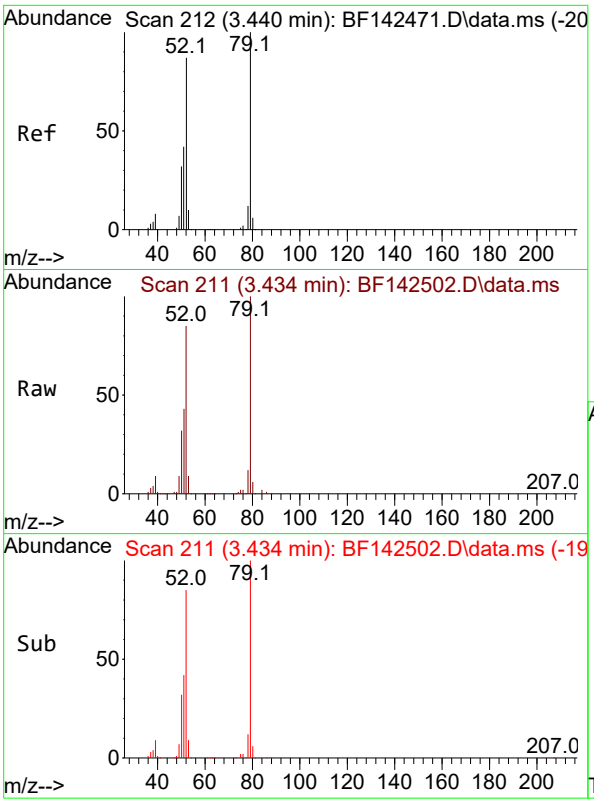


#2
1,4-Dioxane
Concen: 39.535 ng
RT: 2.663 min Scan# 80
Delta R.T. 0.000 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion: 88 Resp: 90766

Ion	Ratio	Lower	Upper
88	100		
58	88.0	70.8	106.2
43	33.8	26.6	40.0



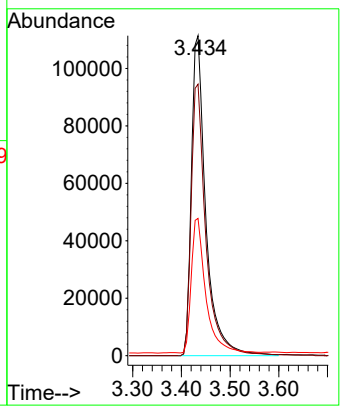


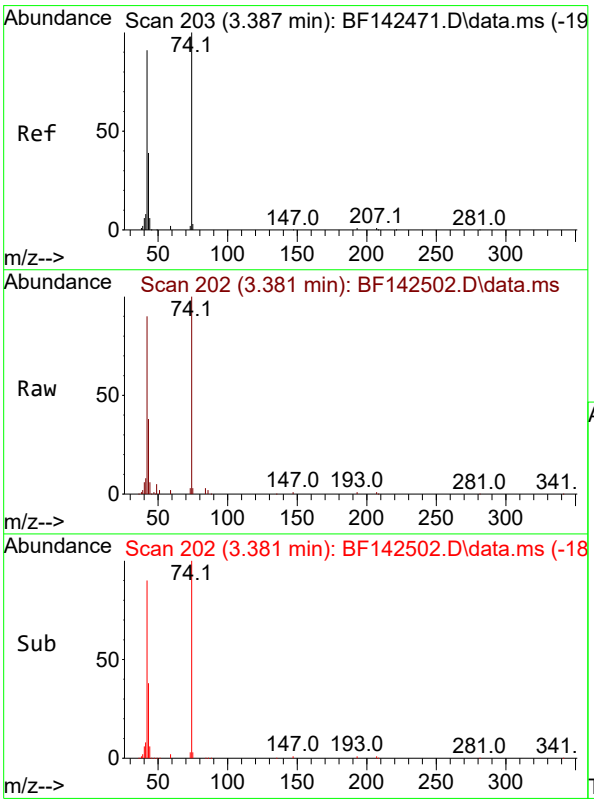
#3
Pyridine
Concen: 39.534 ng
RT: 3.434 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 231131

Ion	Ratio	Lower	Upper
79	100		
52	84.9	69.2	103.8
51	42.9	33.3	49.9

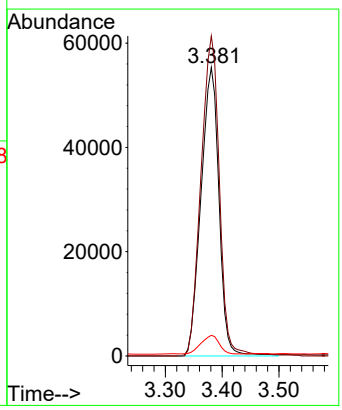


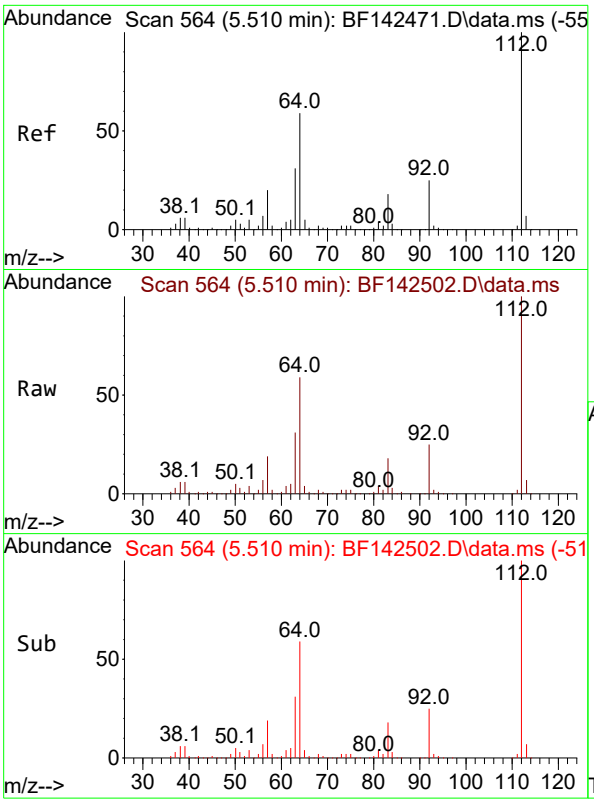


#4
n-Nitrosodimethylamine
Concen: 40.084 ng
RT: 3.381 min Scan# 202
Delta R.T. -0.023 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion: 42 Resp: 121679

Ion	Ratio	Lower	Upper
42	100		
74	110.9	88.2	132.4
44	7.1	5.4	8.2



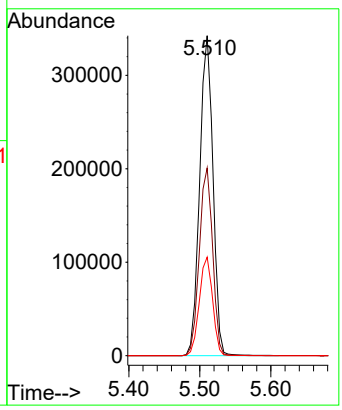


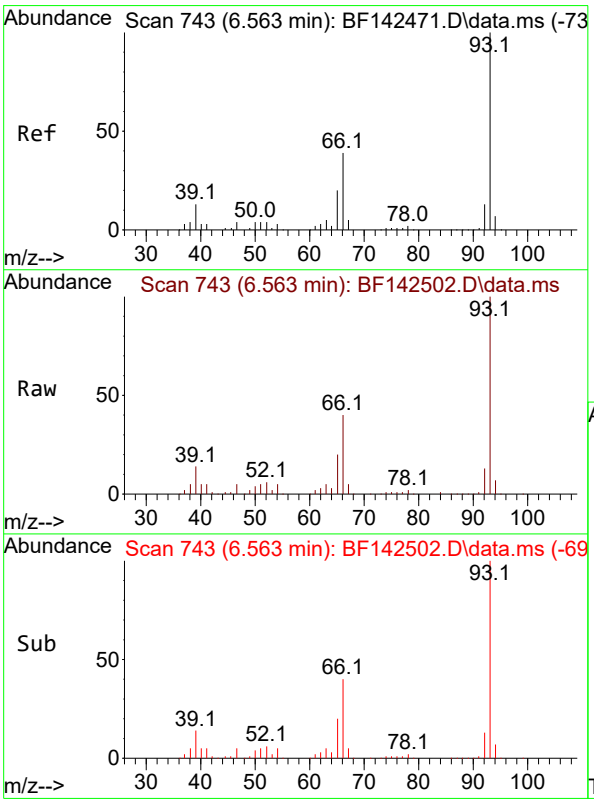
#5
2-Fluorophenol
Concen: 78.010 ng
RT: 5.510 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 447564

Ion	Ratio	Lower	Upper
112	100		
64	58.6	47.5	71.3
63	30.8	24.9	37.3

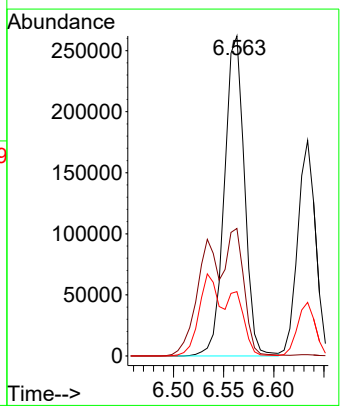


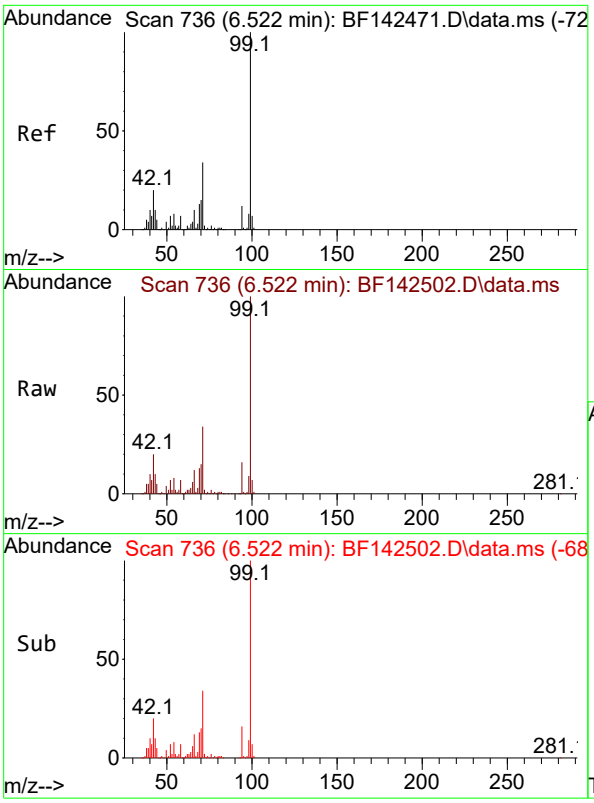


#6
Aniline
Concen: 39.064 ng
RT: 6.563 min Scan# 743
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion: 93 Resp: 362751

Ion	Ratio	Lower	Upper
93	100		
66	39.9	32.0	48.0
65	20.1	16.1	24.1



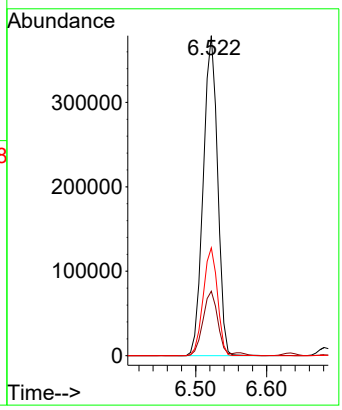


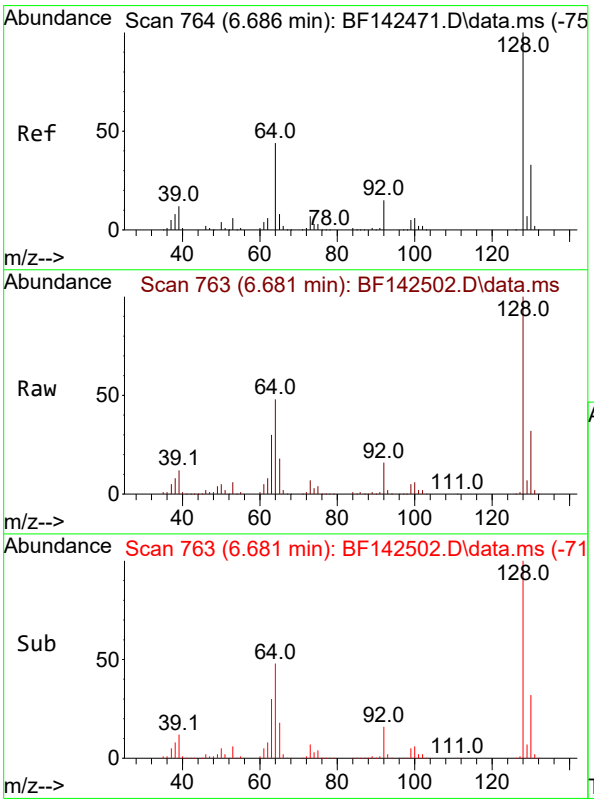
#7
Phenol-d6
Concen: 77.184 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 533057

Ion	Ratio	Lower	Upper
99	100		
42	20.1	16.2	24.2
71	33.7	27.3	40.9

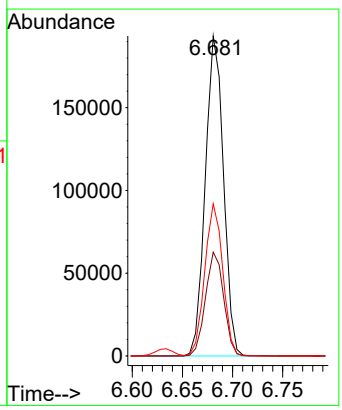


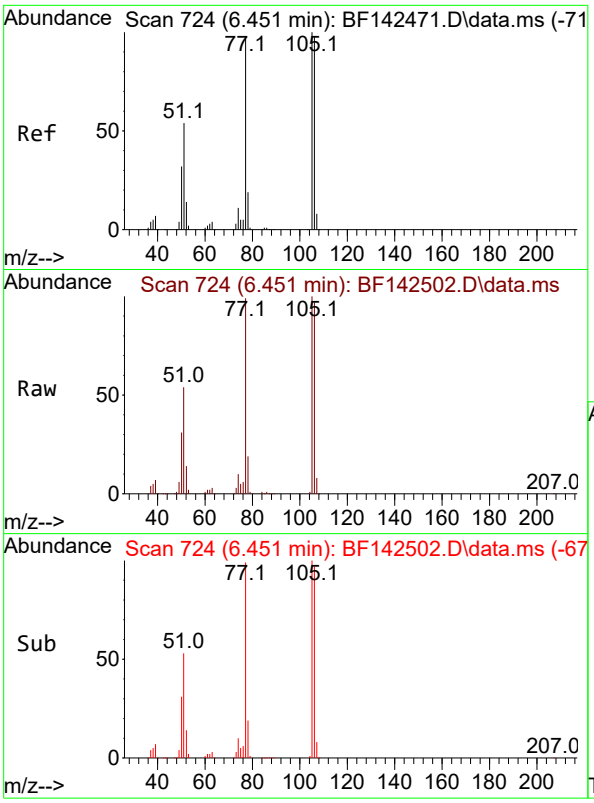


#8
2-Chlorophenol
Concen: 39.108 ng
RT: 6.681 min Scan# 763
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:128 Resp: 244389

Ion	Ratio	Lower	Upper
128	100		
130	32.4	12.6	52.6
64	47.6	25.1	65.1



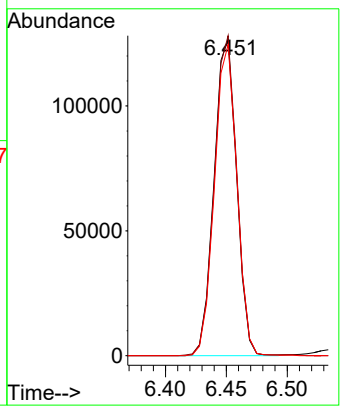


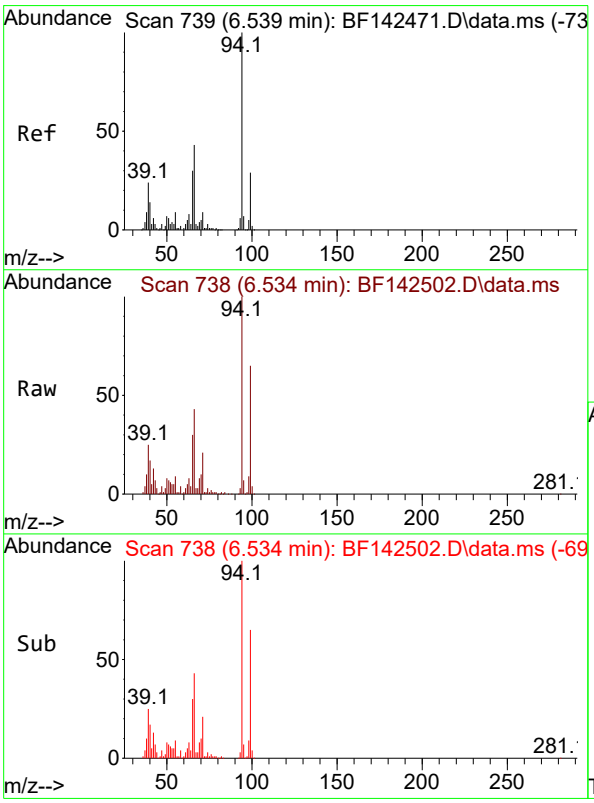
#9
Benzaldehyde
Concen: 39.334 ng
RT: 6.451 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 163391

Ion	Ratio	Lower	Upper
77	100		
105	101.1	82.5	122.5
106	98.4	80.0	120.0

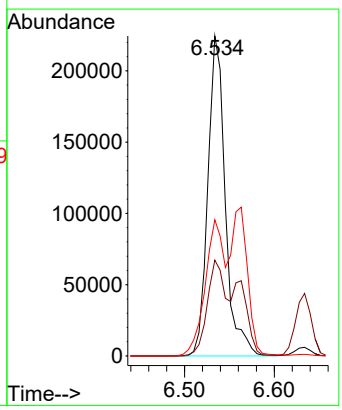


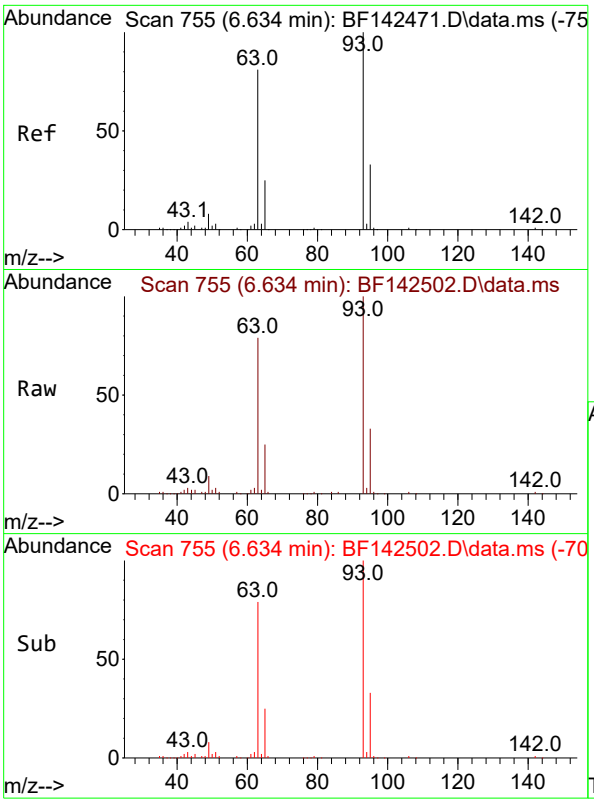


#10
Phenol
Concen: 38.958 ng
RT: 6.534 min Scan# 738
Delta R.T. -0.017 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion: 94 Resp: 302742

Ion	Ratio	Lower	Upper
94	100		
65	30.0	10.3	50.3
66	42.6	22.6	62.6



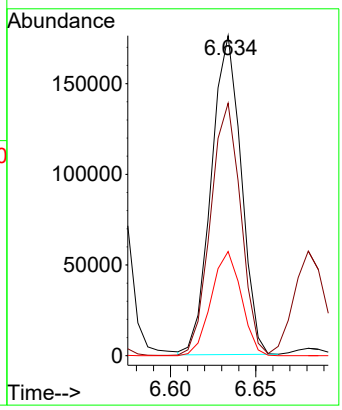


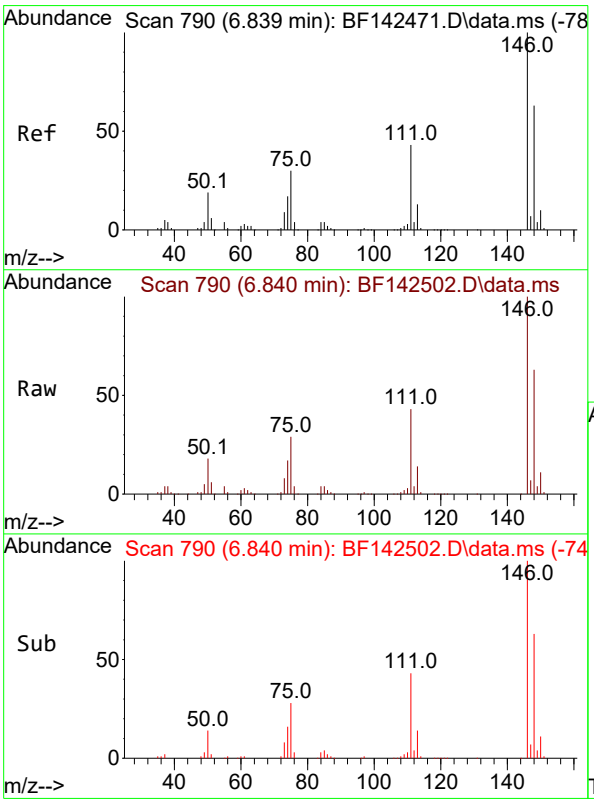
#11
bis(2-Chloroethyl)ether
Concen: 38.397 ng
RT: 6.634 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 214791

Ion	Ratio	Lower	Upper
93	100		
63	78.9	60.2	100.2
95	32.6	12.3	52.3

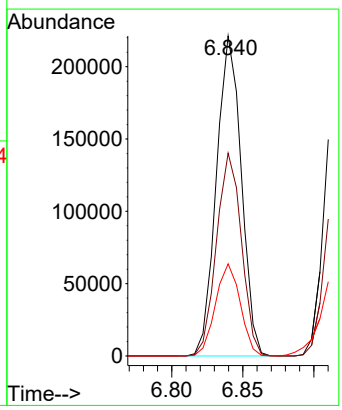


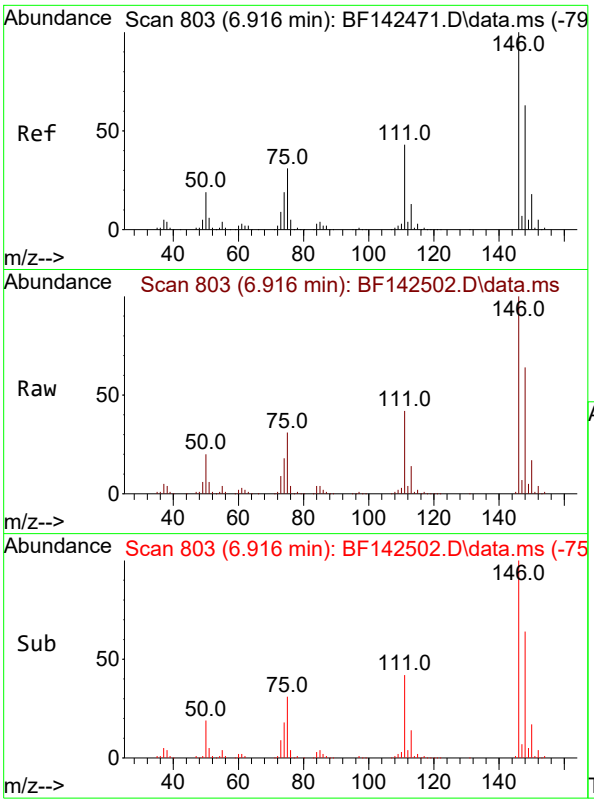


#12
1,3-Dichlorobenzene
Concen: 38.613 ng
RT: 6.840 min Scan# 790
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:146 Resp: 269252

Ion	Ratio	Lower	Upper
146	100		
148	63.4	50.6	75.8
75	28.8	23.8	35.6



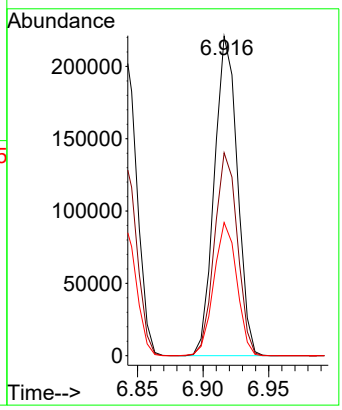


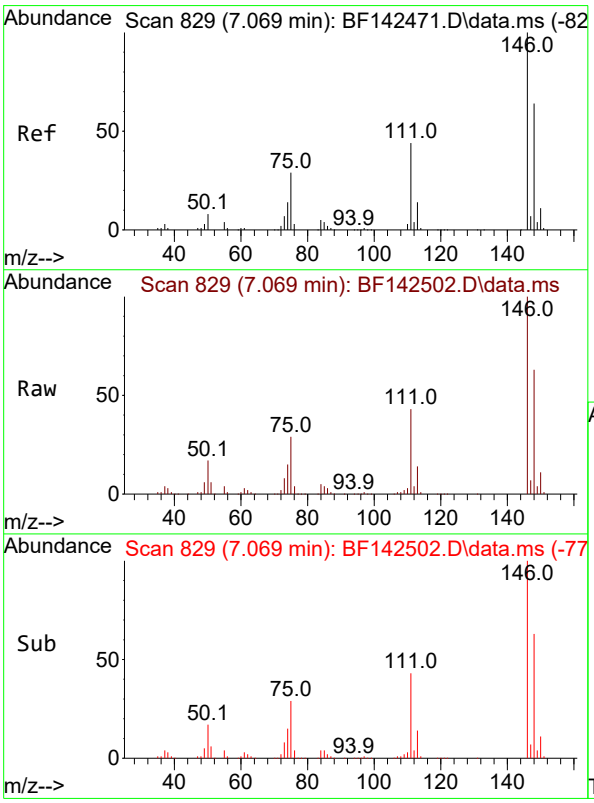
#13
1,4-Dichlorobenzene
Concen: 38.388 ng
RT: 6.916 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 269642

Ion	Ratio	Lower	Upper
146	100		
148	63.5	50.4	75.6
111	41.7	34.1	51.1

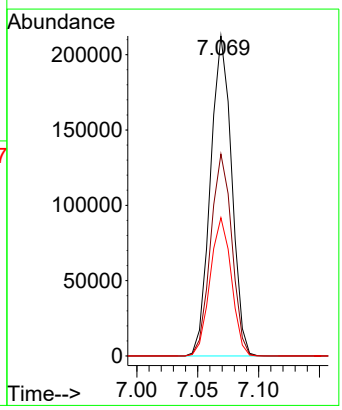


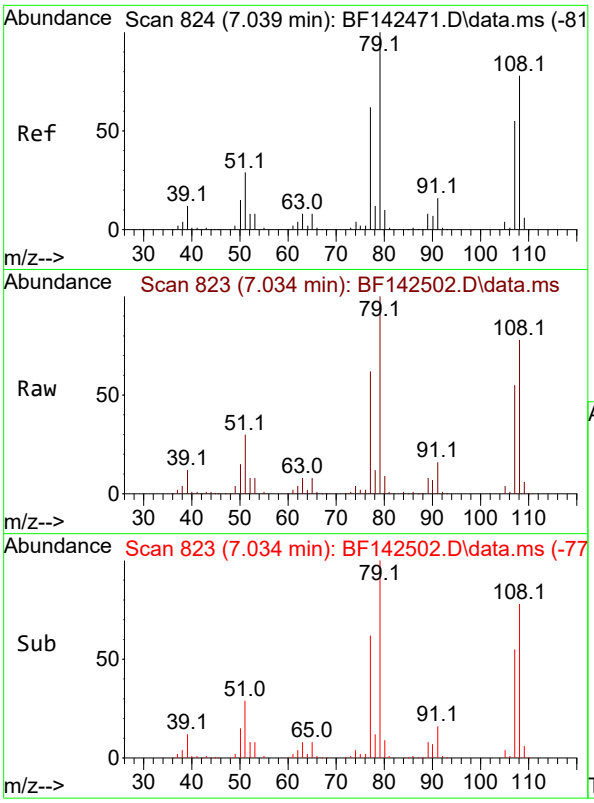


#14
1,2-Dichlorobenzene
Concen: 38.302 ng
RT: 7.069 min Scan# 829
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:146 Resp: 257431

Ion	Ratio	Lower	Upper
146	100		
148	63.1	51.0	76.4
111	43.2	35.0	52.6



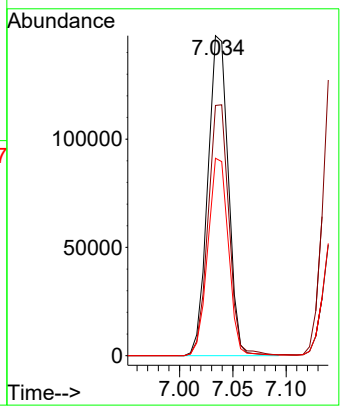


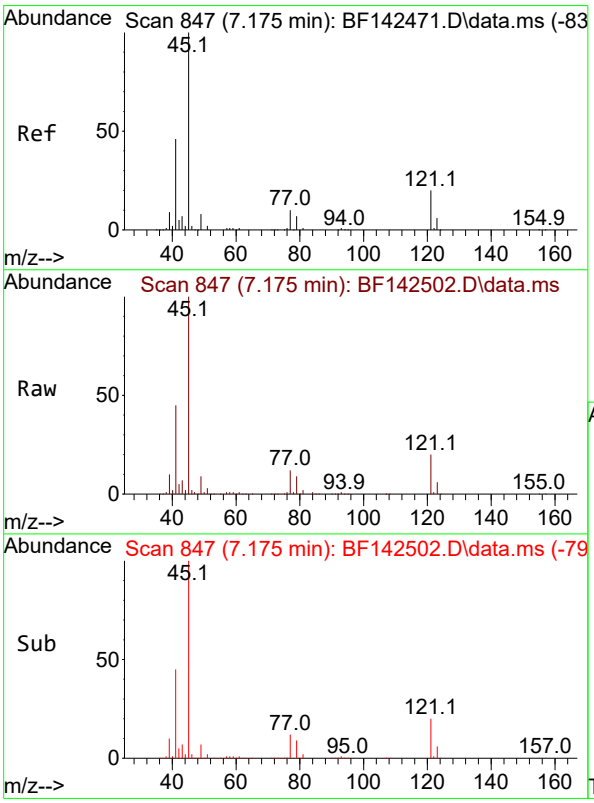
#15
Benzyl Alcohol
Concen: 38.771 ng
RT: 7.034 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 197875

Ion	Ratio	Lower	Upper
79	100		
108	78.2	62.1	93.1
77	61.7	49.5	74.3

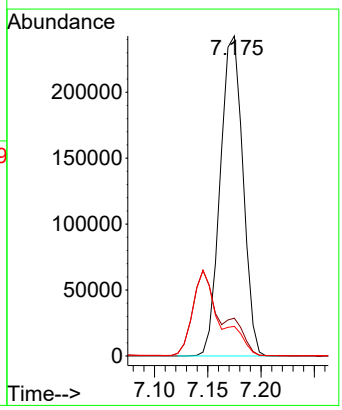


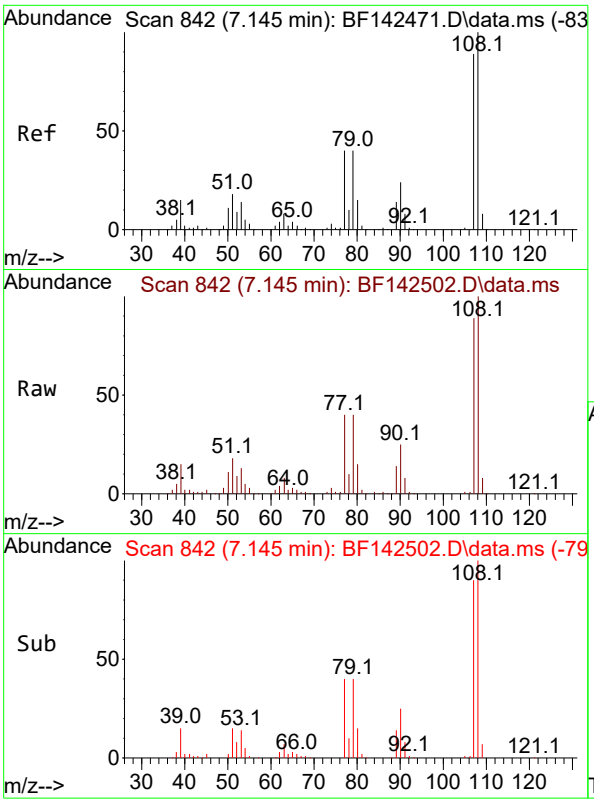


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.111 ng
RT: 7.175 min Scan# 847
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion: 45 Resp: 358019

Ion	Ratio	Lower	Upper
45	100		
77	11.8	0.0	32.0
79	9.2	0.0	29.2



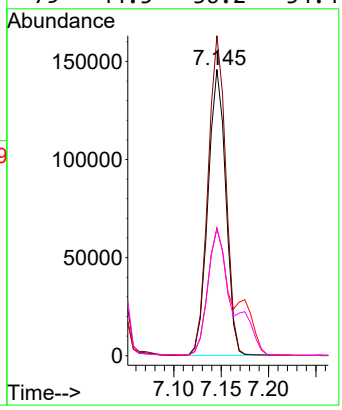


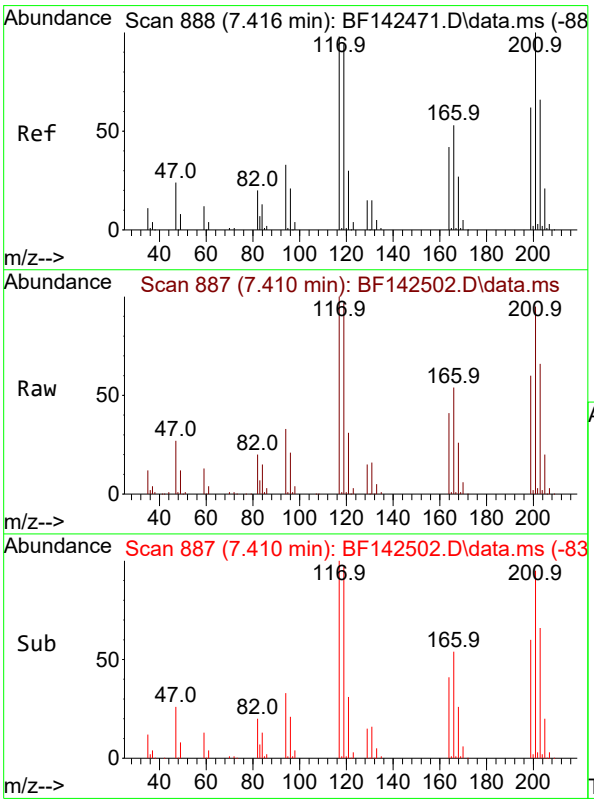
#17
2-Methylphenol
Concen: 38.917 ng
RT: 7.145 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 189875

Ion	Ratio	Lower	Upper
107	100		
108	111.8	90.2	135.2
77	44.5	36.1	54.1
79	44.5	36.2	54.4

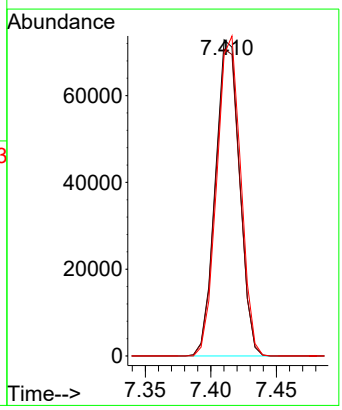


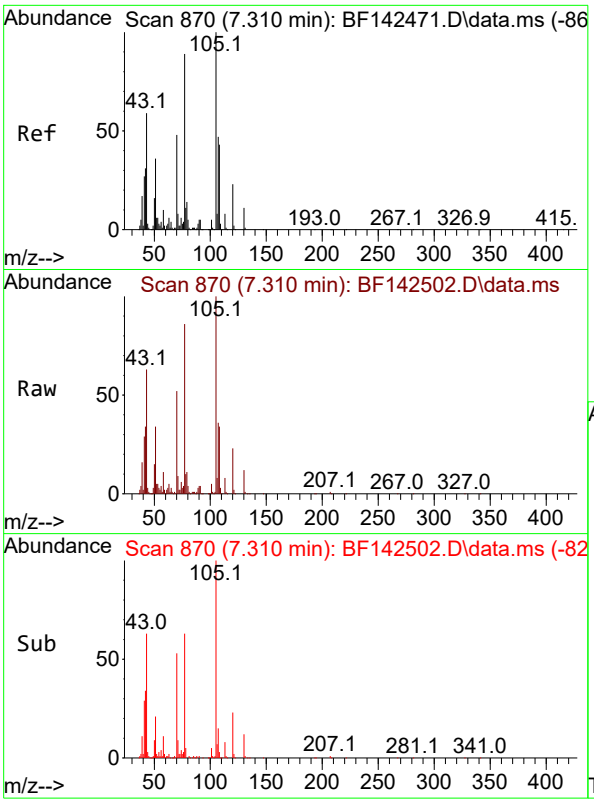


#18
Hexachloroethane
Concen: 38.072 ng
RT: 7.410 min Scan# 887
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:117 Resp: 93379

Ion	Ratio	Lower	Upper
117	100		
119	97.0	76.6	114.8
201	95.3	81.3	121.9



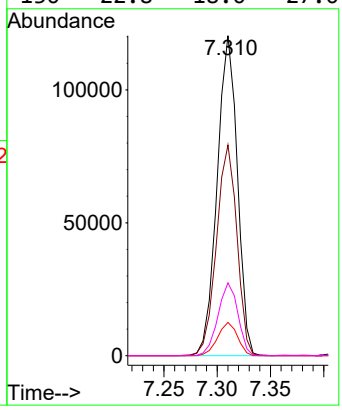


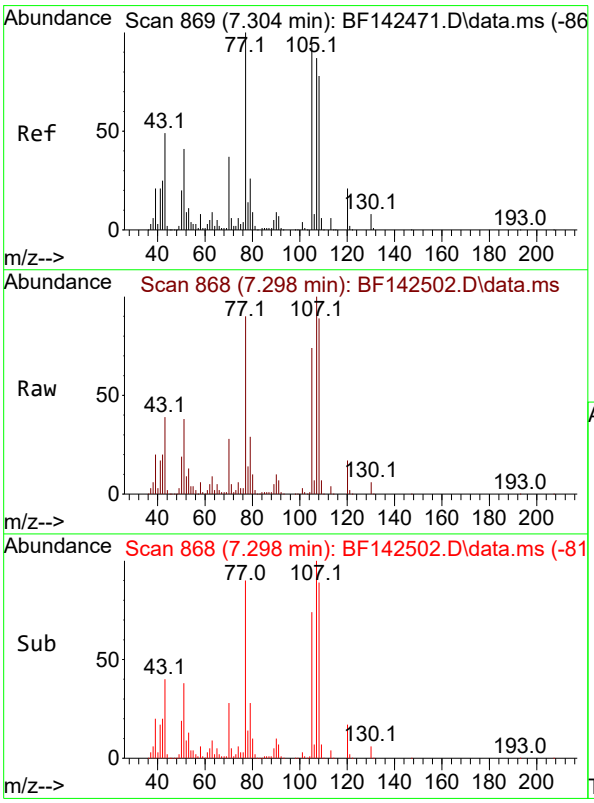
#19
n-Nitroso-di-n-propylamine
Concen: 37.081 ng
RT: 7.310 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 158714

Ion	Ratio	Lower	Upper
70	100		
42	65.8	52.4	78.6
101	10.4	7.8	11.8
130	22.8	18.0	27.0

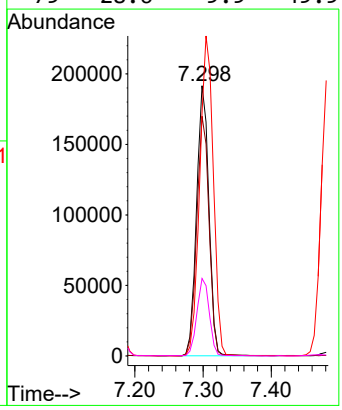


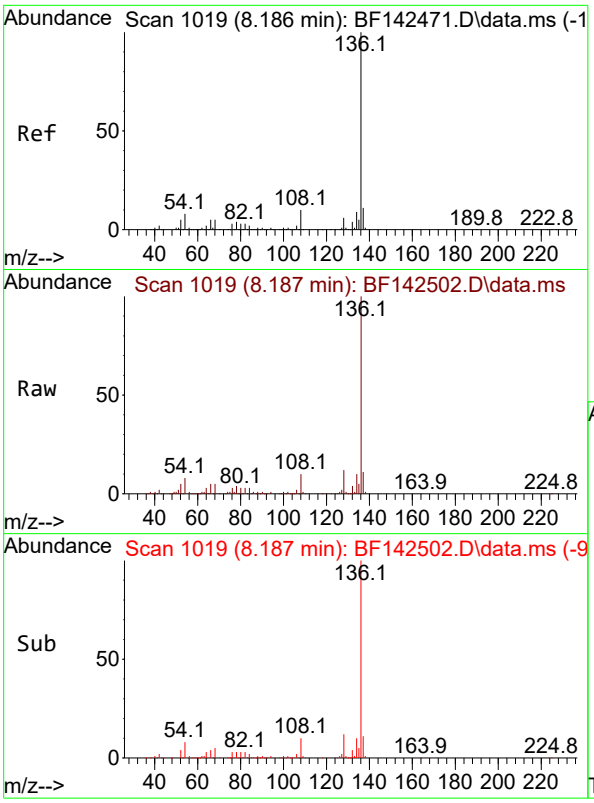


#20
3+4-Methylphenols
Concen: 38.429 ng
RT: 7.298 min Scan# 868
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:107 Resp: 240103

Ion	Ratio	Lower	Upper
107	100		
108	88.7	70.4	110.4
77	89.9	95.4	135.4#
79	28.6	9.9	49.9



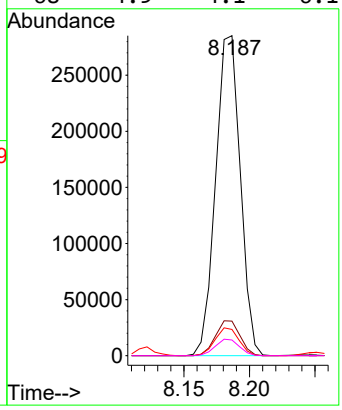


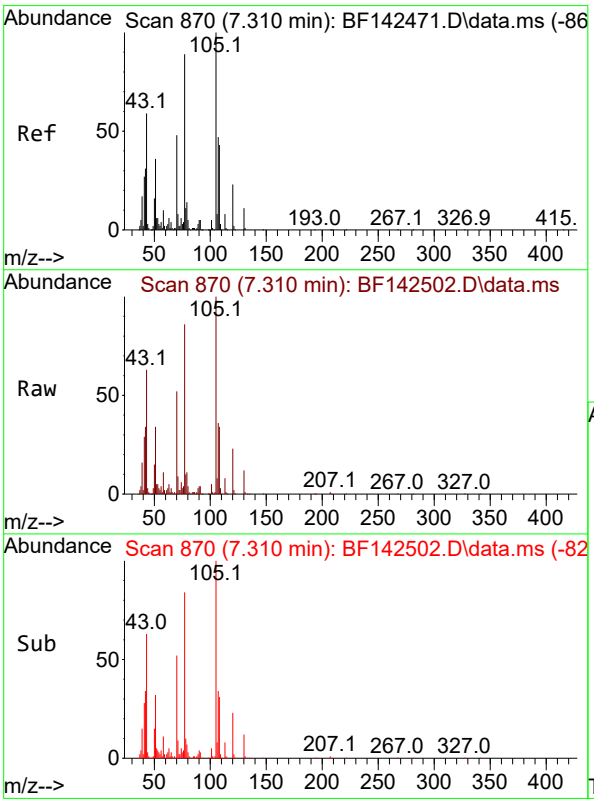
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.187 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 372701

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.2	6.6	10.0
68	4.9	4.1	6.1

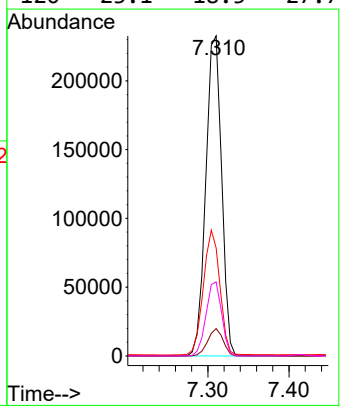


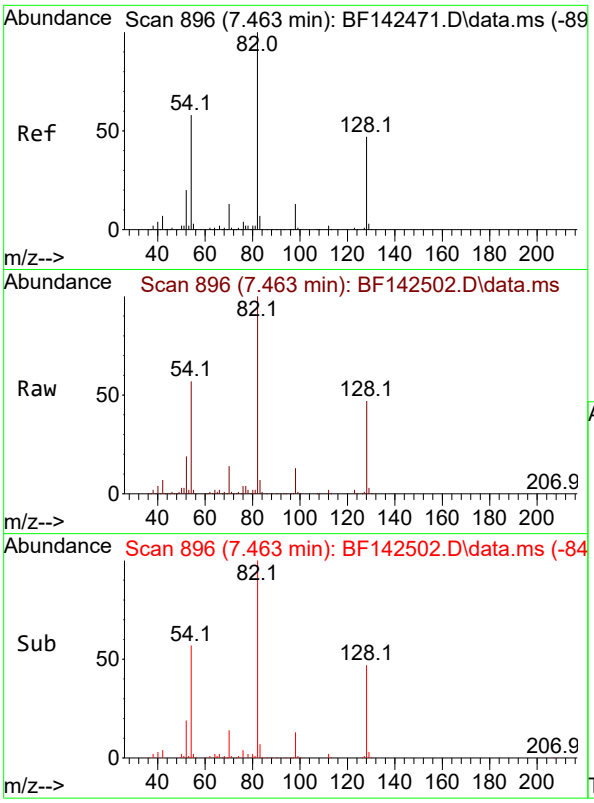


#22
Acetophenone
Concen: 38.192 ng
RT: 7.310 min Scan# 870
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:105 Resp: 315101

Ion	Ratio	Lower	Upper
105	100		
71	8.5	6.4	9.6
51	33.8	28.6	42.8
120	23.1	18.5	27.7



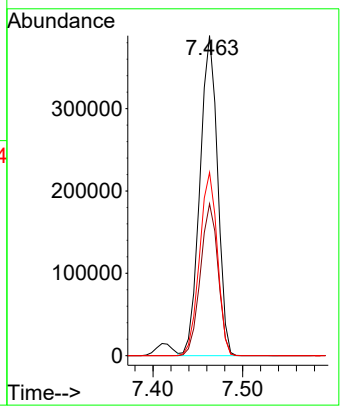


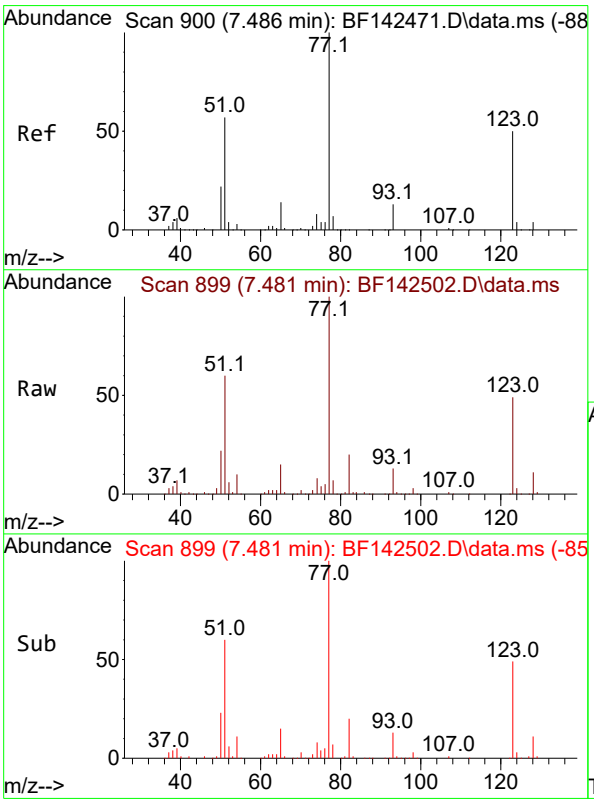
#23
Nitrobenzene-d5
Concen: 77.570 ng
RT: 7.463 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 530183

Ion	Ratio	Lower	Upper
82	100		
128	47.5	37.4	56.2
54	57.3	46.6	70.0

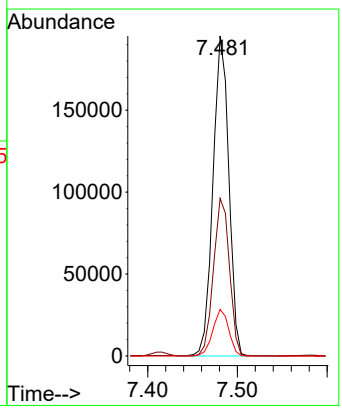


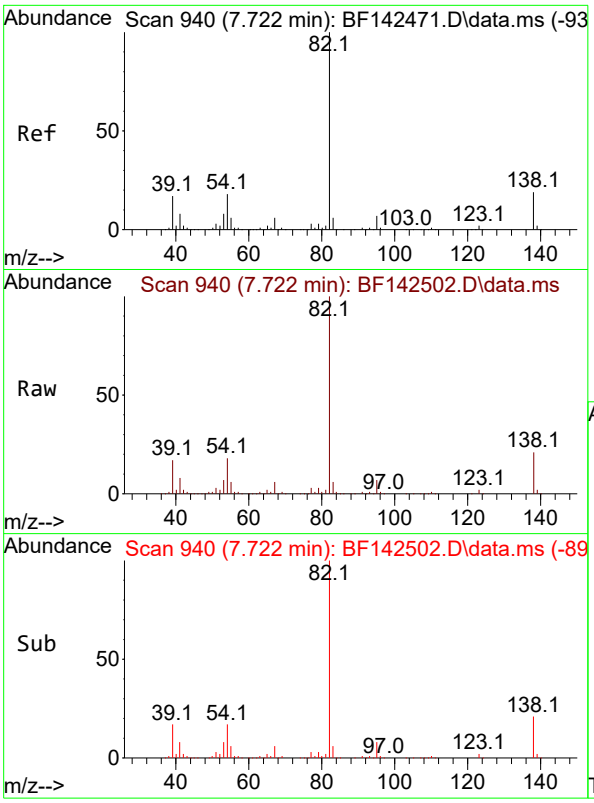


#24
Nitrobenzene
Concen: 38.825 ng
RT: 7.481 min Scan# 899
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion: 77 Resp: 239334

Ion	Ratio	Lower	Upper
77	100		
123	49.2	40.6	61.0
65	14.6	11.4	17.2



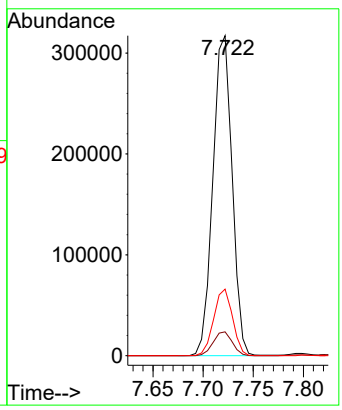


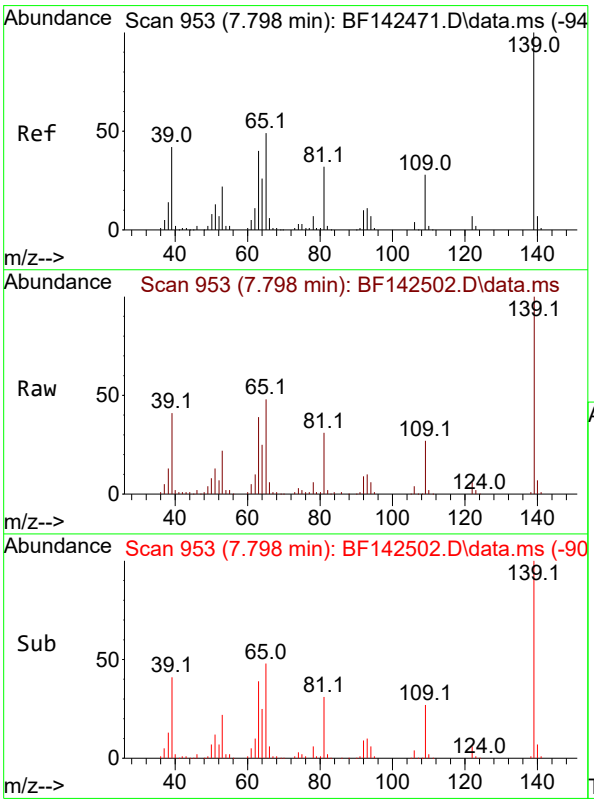
#25
Isophorone
Concen: 37.062 ng
RT: 7.722 min Scan# 94
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 423533

Ion	Ratio	Lower	Upper
82	100		
95	7.4	6.0	9.0
138	20.8	15.5	23.3

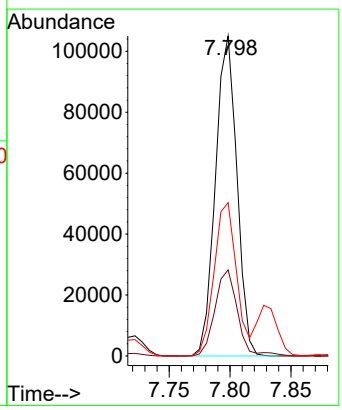


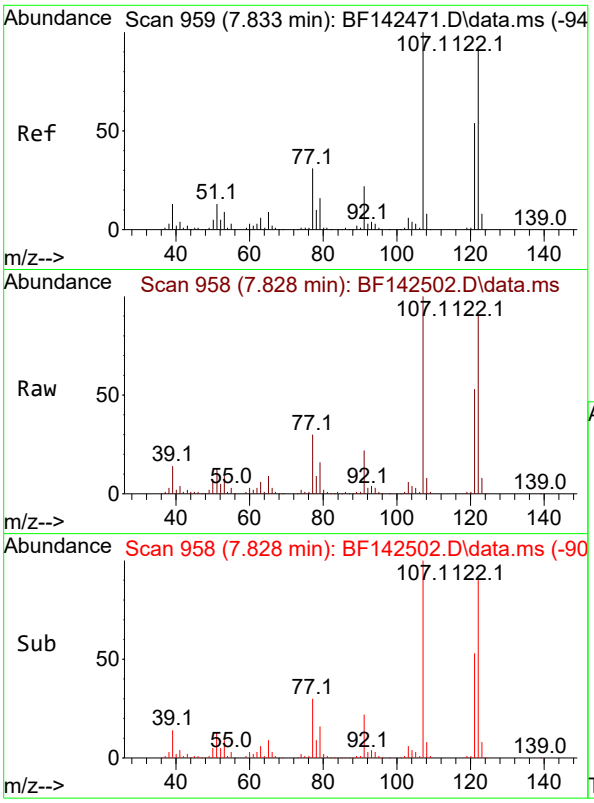


#26
2-Nitrophenol
Concen: 39.135 ng
RT: 7.798 min Scan# 953
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:139 Resp: 128906

Ion	Ratio	Lower	Upper
139	100		
109	26.9	22.6	33.8
65	47.9	39.4	59.0



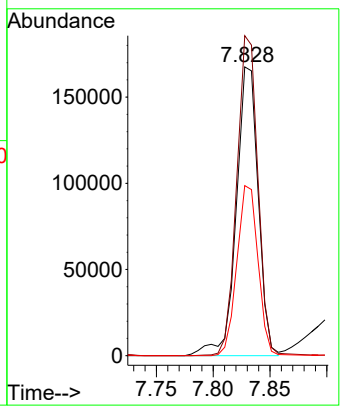


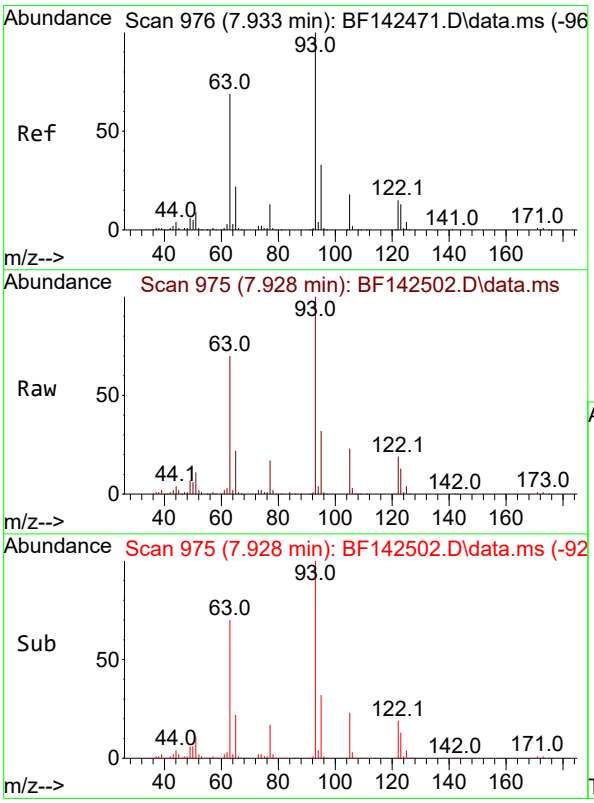
#27
2,4-Dimethylphenol
Concen: 38.788 ng
RT: 7.828 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 225314

Ion	Ratio	Lower	Upper
122	100		
107	110.8	88.1	132.1
121	58.9	47.3	70.9

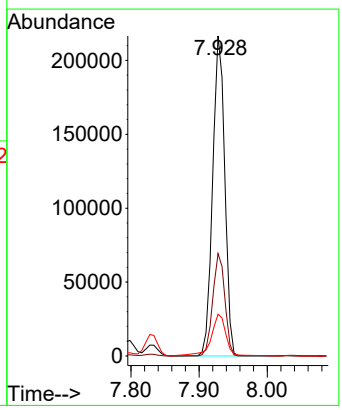


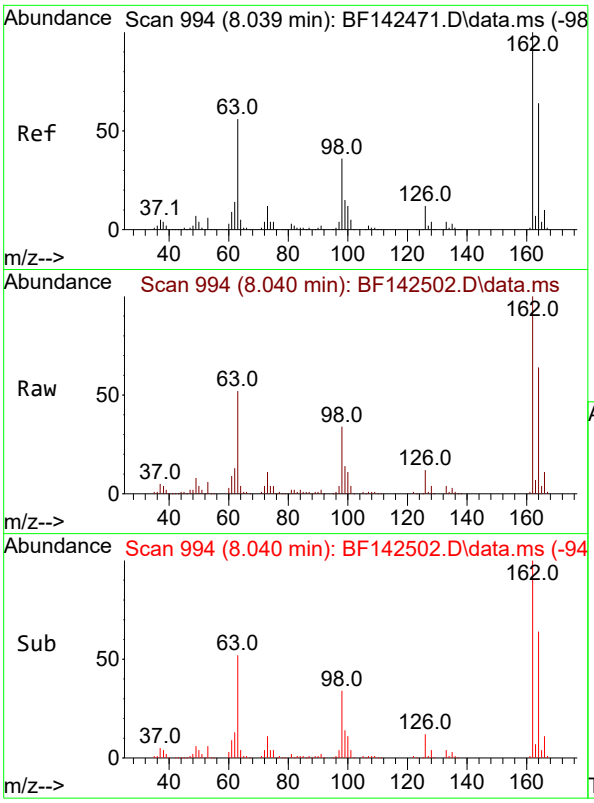


#28
bis(2-Chloroethoxy)methane
Concen: 37.553 ng
RT: 7.928 min Scan# 975
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion: 93 Resp: 268076

Ion	Ratio	Lower	Upper
93	100		
95	32.0	26.4	39.6
123	13.1	10.6	15.8



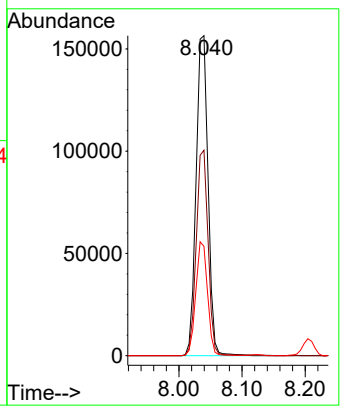


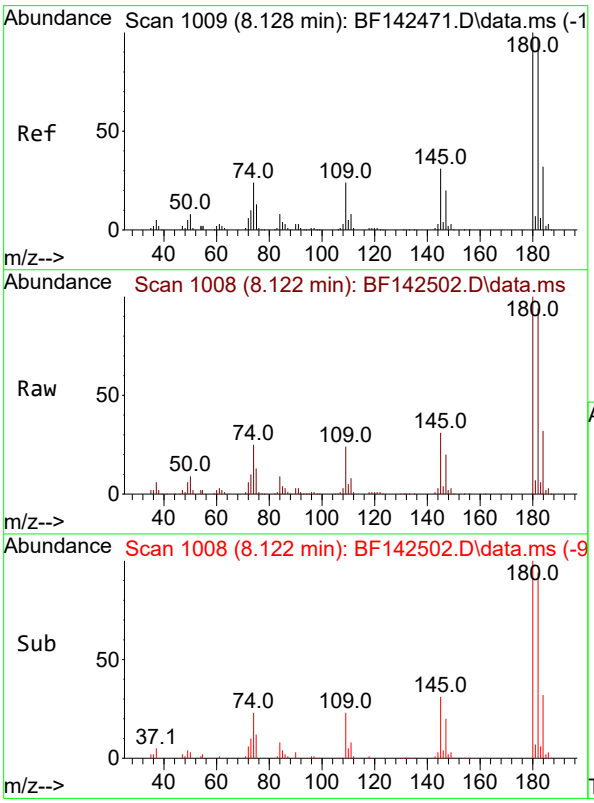
#29
2,4-Dichlorophenol
Concen: 38.961 ng
RT: 8.040 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 205819

Ion	Ratio	Lower	Upper
162	100		
164	64.2	43.7	83.7
98	34.1	15.5	55.5

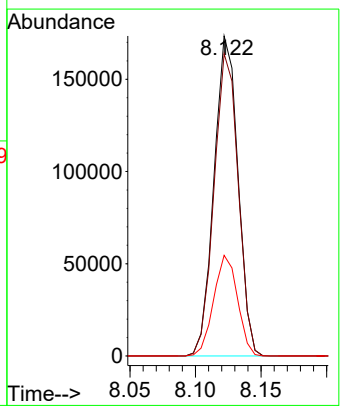


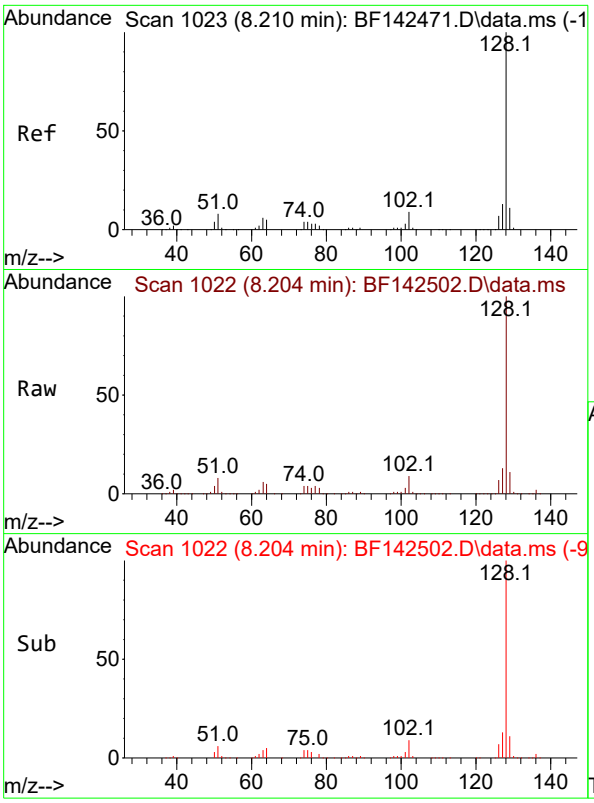


#30
1,2,4-Trichlorobenzene
Concen: 38.377 ng
RT: 8.122 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:180 Resp: 220024

Ion	Ratio	Lower	Upper
180	100		
182	94.4	78.0	117.0
145	31.5	25.0	37.6



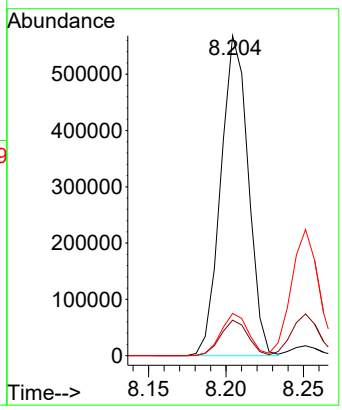


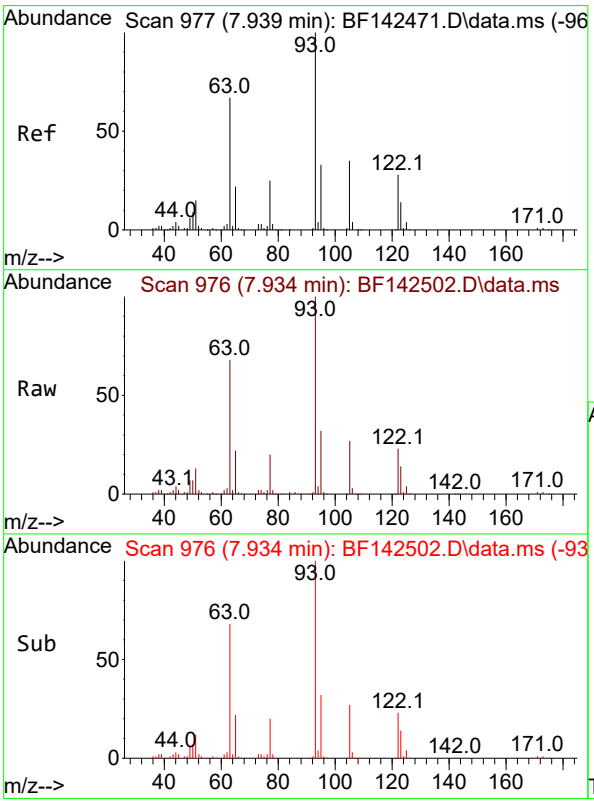
#31
Naphthalene
Concen: 38.121 ng
RT: 8.204 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 699587

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.2	10.5	15.7

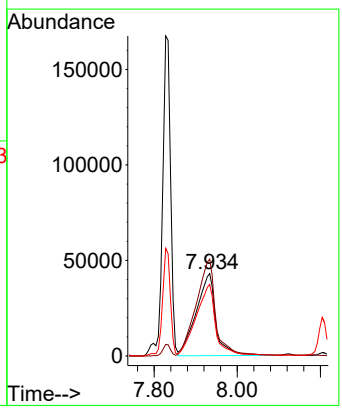


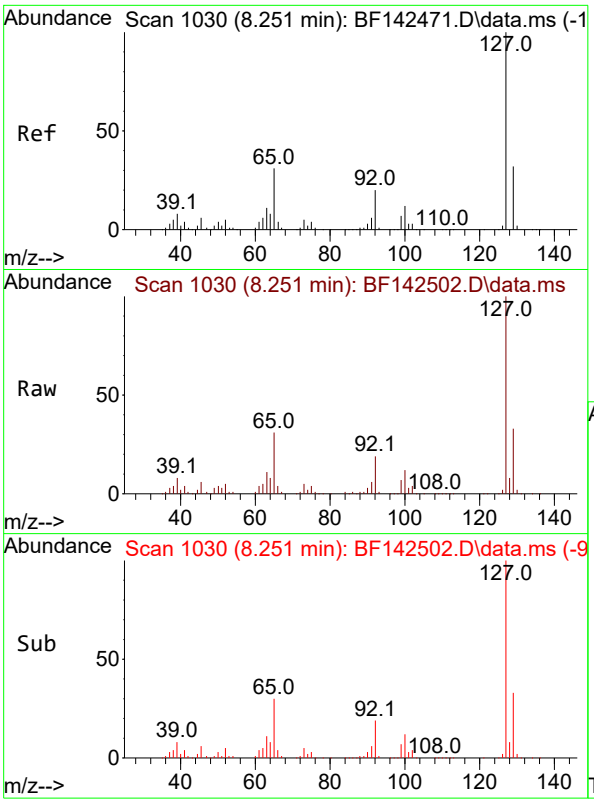


#32
Benzoic acid
Concen: 39.792 ng
RT: 7.934 min Scan# 976
Delta R.T. -0.041 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:122 Resp: 140703

Ion	Ratio	Lower	Upper
122	100		
105	117.4	101.7	141.7
77	86.8	69.5	109.5



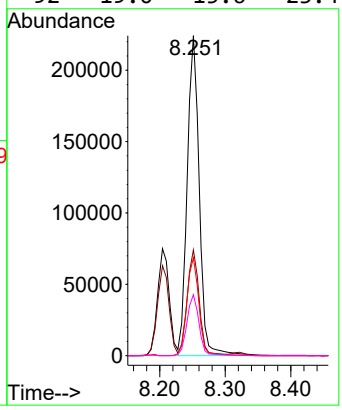


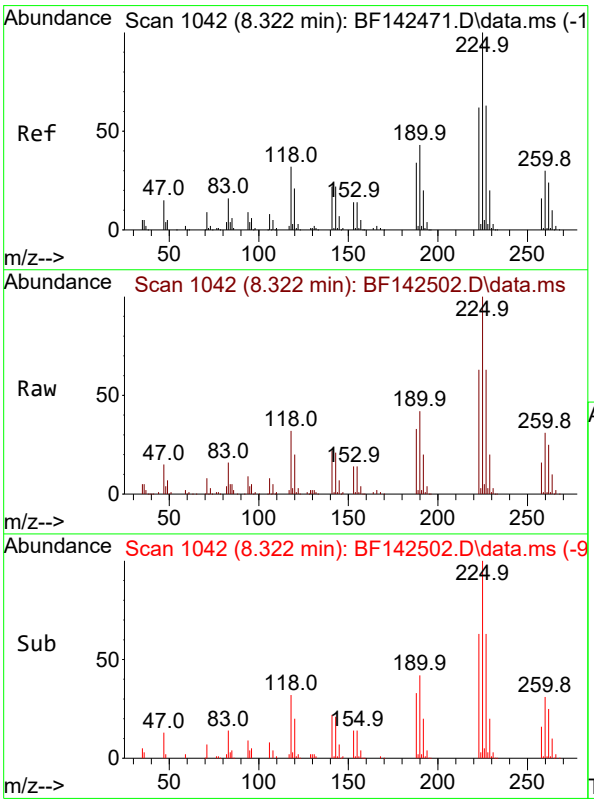
#33
4-Chloroaniline
Concen: 38.411 ng
RT: 8.251 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 285629

Ion	Ratio	Lower	Upper
127	100		
129	33.1	26.1	39.1
65	30.6	24.9	37.3
92	19.0	15.6	23.4

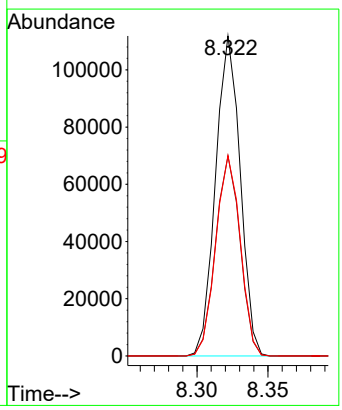


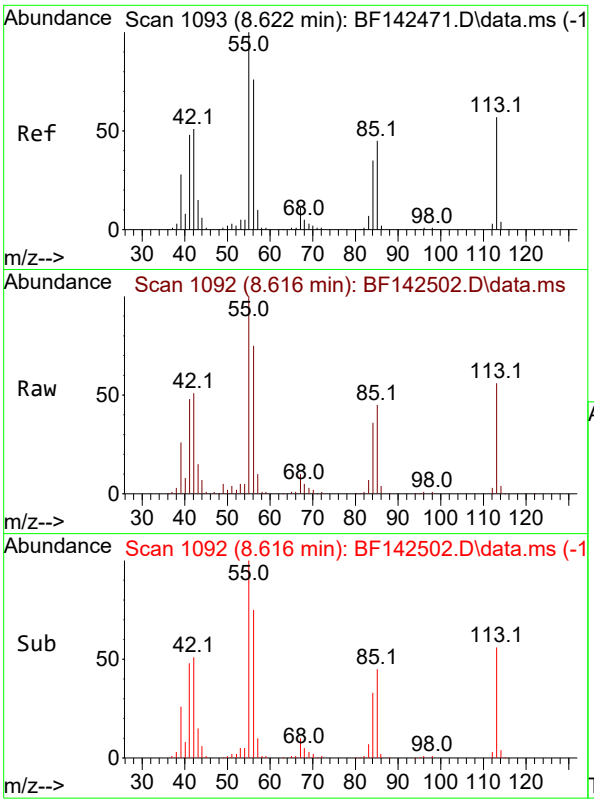


#34
Hexachlorobutadiene
Concen: 37.650 ng
RT: 8.322 min Scan# 1042
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:225 Resp: 134778

Ion	Ratio	Lower	Upper
225	100		
223	62.5	49.7	74.5
227	62.6	50.3	75.5



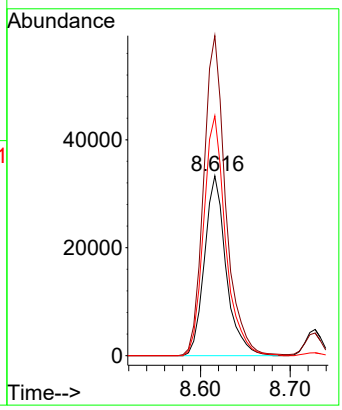


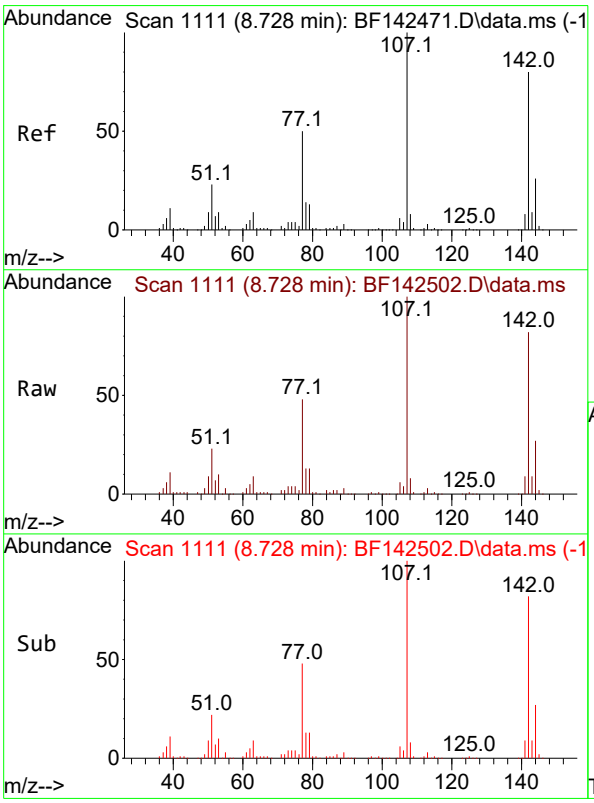
#35
Caprolactam
Concen: 37.492 ng
RT: 8.616 min Scan# 1
Delta R.T. -0.029 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 55626

Ion	Ratio	Lower	Upper
113	100		
55	177.9	154.7	194.7
56	133.3	113.2	153.2

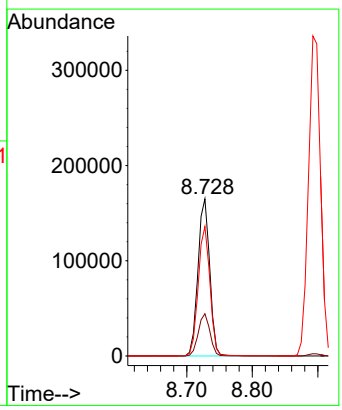


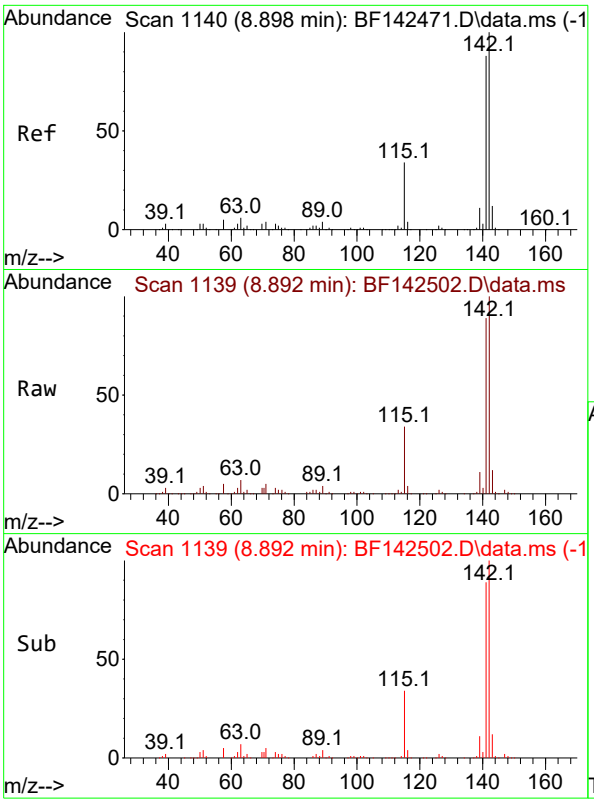


#36
4-Chloro-3-methylphenol
Concen: 38.135 ng
RT: 8.728 min Scan# 1111
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:107 Resp: 206459

Ion	Ratio	Lower	Upper
107	100		
144	26.9	20.9	31.3
142	82.4	64.2	96.2



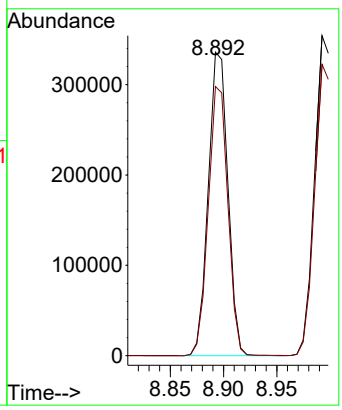


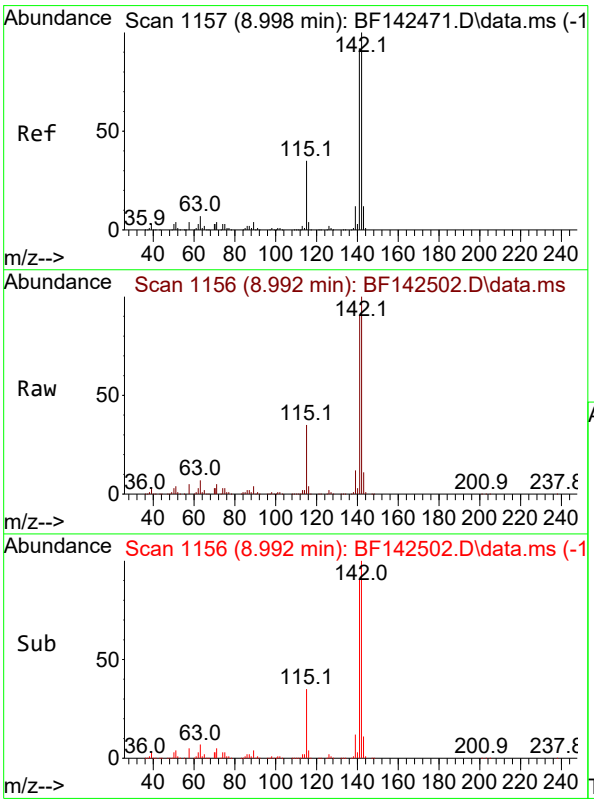
#37
2-Methylnaphthalene
Concen: 37.285 ng
RT: 8.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 430472

Ion	Ratio	Lower	Upper
142	100		
141	88.6	70.7	106.1

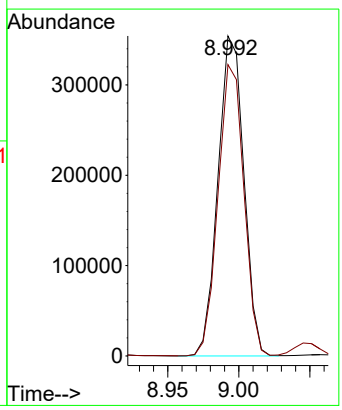


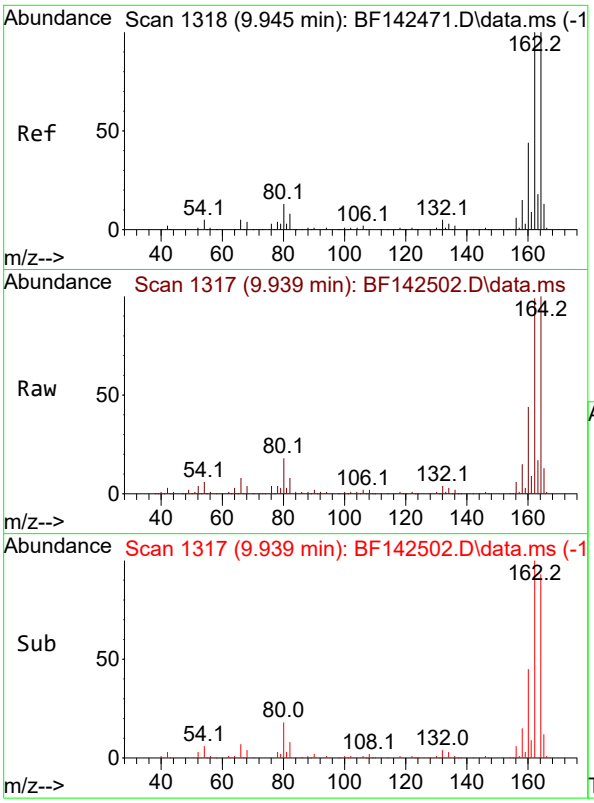


#38
1-Methylnaphthalene
Concen: 37.517 ng
RT: 8.992 min Scan# 1156
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:142 Resp: 448040

Ion	Ratio	Lower	Upper
142	100		
141	91.1	73.4	110.2



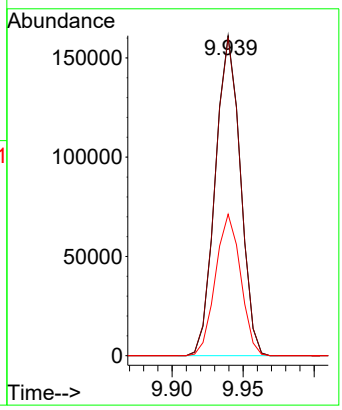


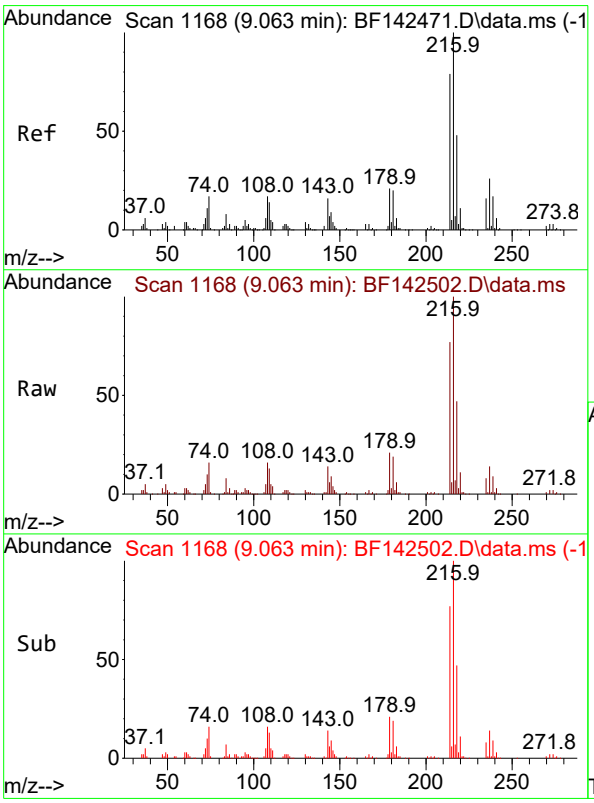
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 197309

Ion	Ratio	Lower	Upper
164	100		
162	99.3	80.2	120.4
160	44.2	35.6	53.4

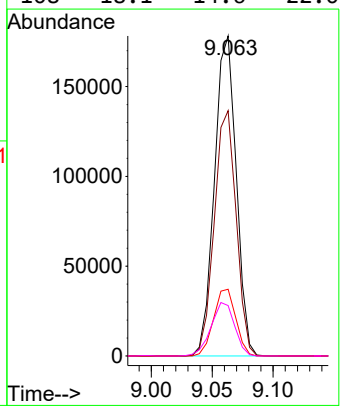


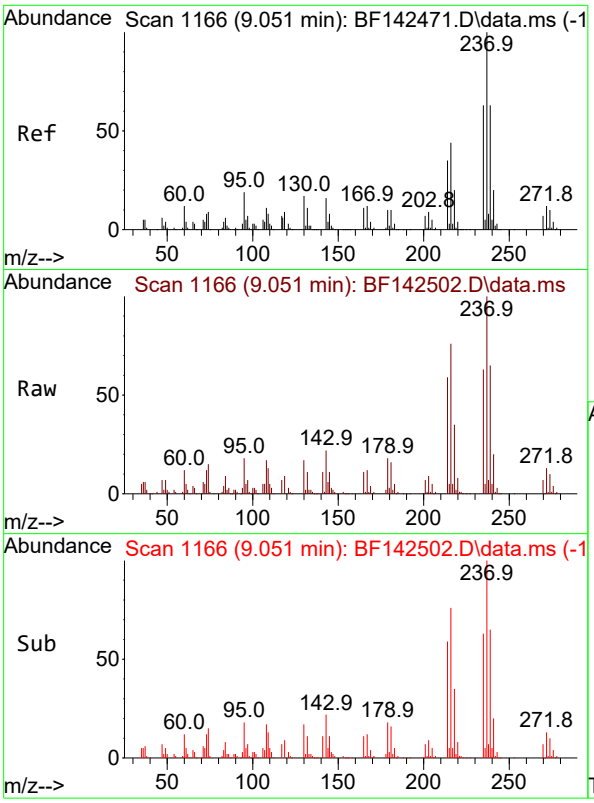


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.153 ng
RT: 9.063 min Scan# 1168
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:216 Resp: 221756

Ion	Ratio	Lower	Upper
216	100		
214	76.9	62.9	94.3
179	21.3	16.9	25.3
108	18.1	14.6	22.0



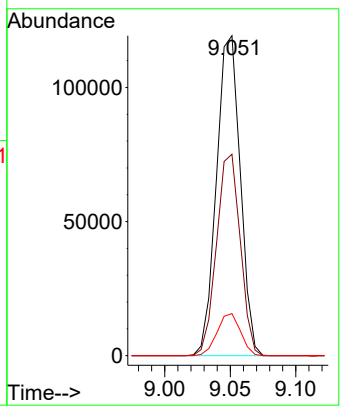


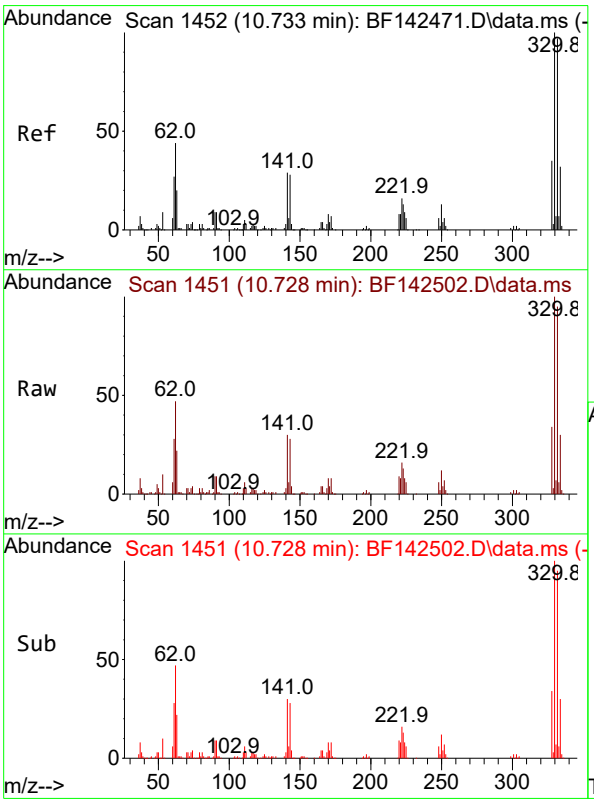
#41
Hexachlorocyclopentadiene
Concen: 39.409 ng
RT: 9.051 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 150573

Ion	Ratio	Lower	Upper
237	100		
235	62.9	43.3	83.3
272	13.1	0.0	32.4

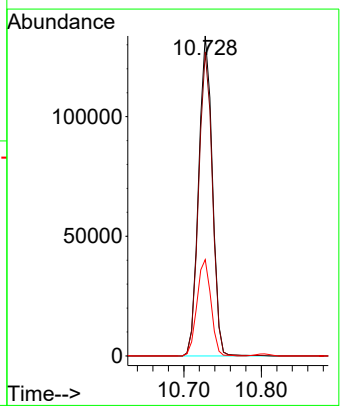


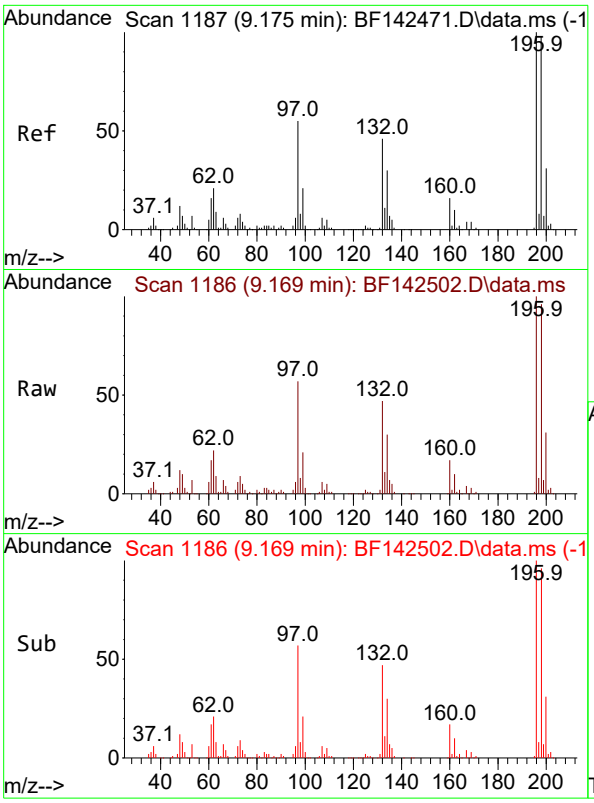


#42
2,4,6-Tribromophenol
Concen: 74.998 ng
RT: 10.728 min Scan# 1451
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:330 Resp: 164236

Ion	Ratio	Lower	Upper
330	100		
332	95.0	77.6	116.4
141	30.6	24.6	36.8



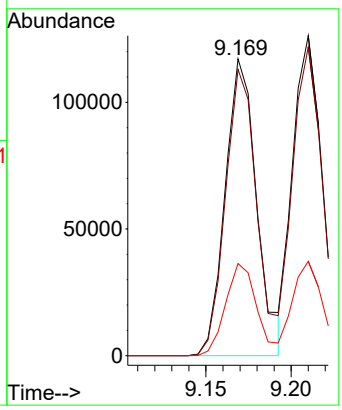


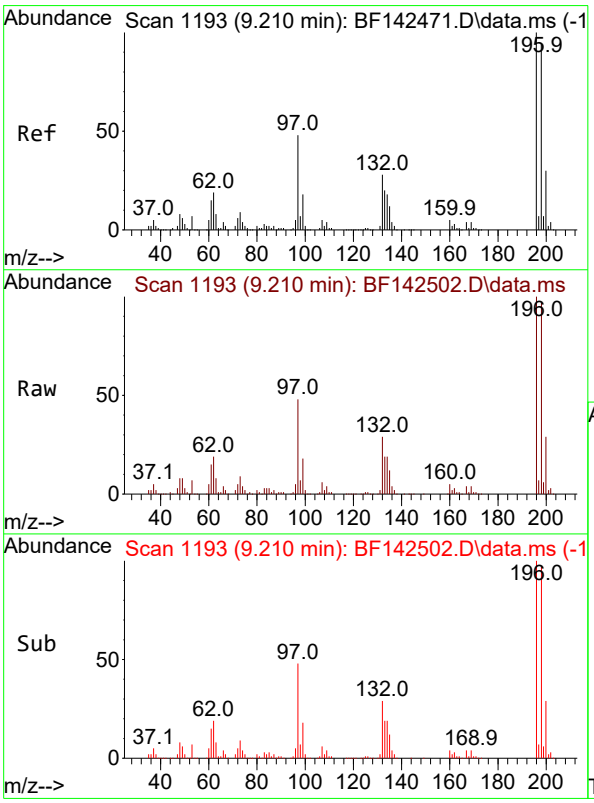
#43
2,4,6-Trichlorophenol
Concen: 39.540 ng
RT: 9.169 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 151013

Ion	Ratio	Lower	Upper
196	100		
198	96.4	78.8	118.2
200	31.1	24.9	37.3

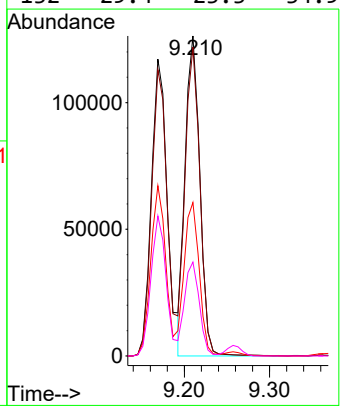


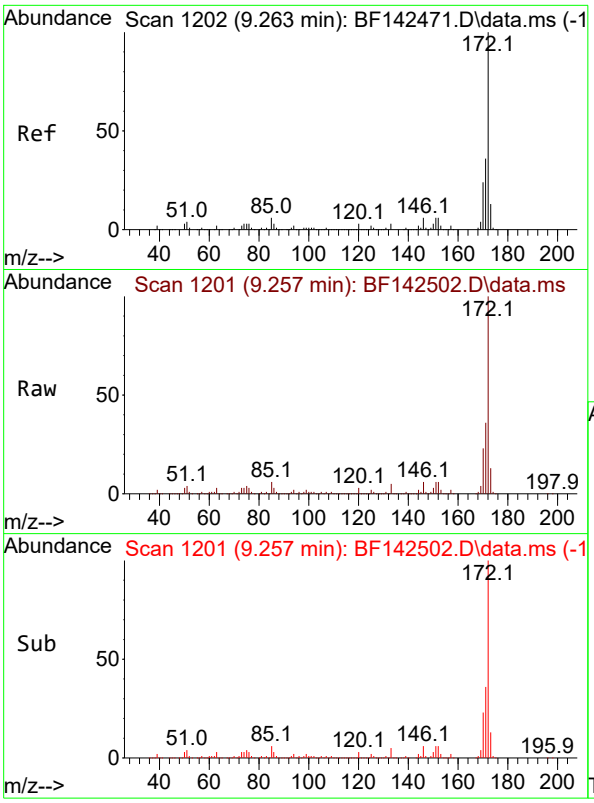


#44
2,4,5-Trichlorophenol
Concen: 37.777 ng
RT: 9.210 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:196 Resp: 152163

Ion	Ratio	Lower	Upper
196	100		
198	96.5	75.5	113.3
97	47.9	39.3	58.9
132	29.4	23.3	34.9



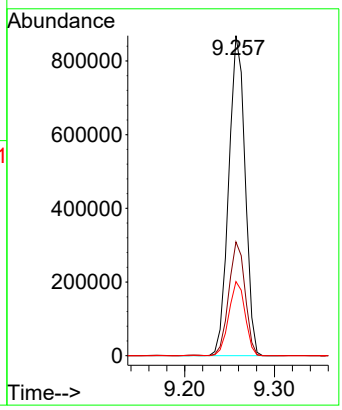


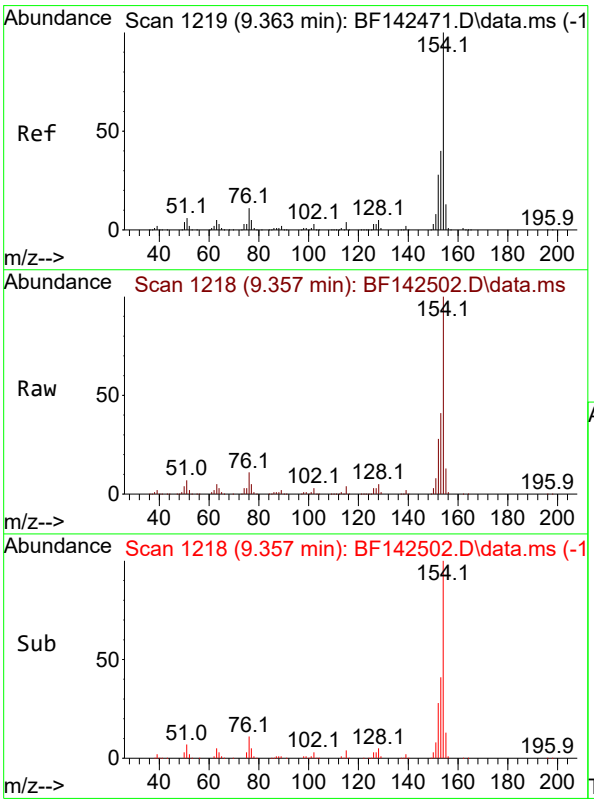
#45
2-Fluorobiphenyl
Concen: 74.571 ng
RT: 9.257 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 1096499

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	42.8
170	23.2	18.9	28.3

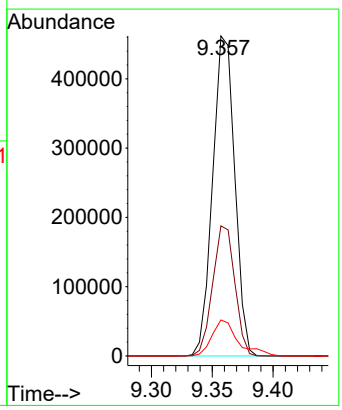


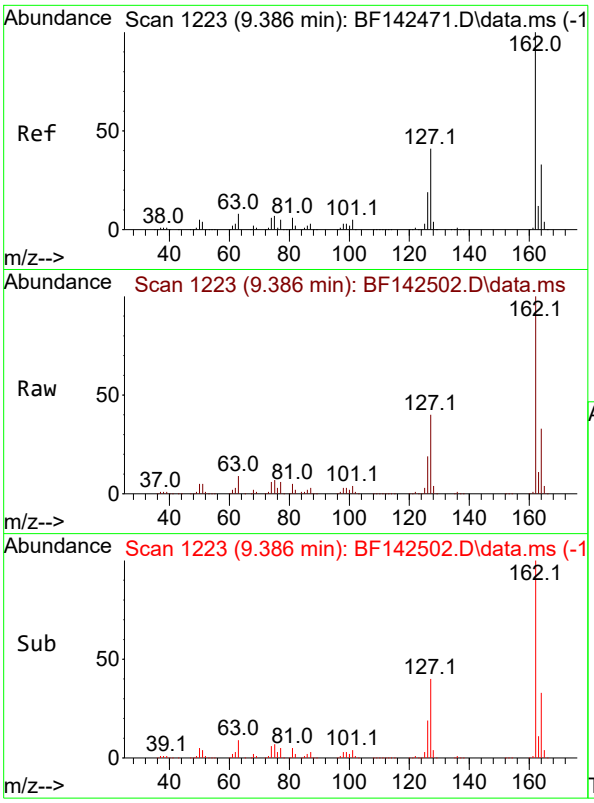


#46
1,1'-Biphenyl
Concen: 38.167 ng
RT: 9.357 min Scan# 1218
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:154 Resp: 584245

Ion	Ratio	Lower	Upper
154	100		
153	40.7	20.4	60.4
76	11.3	0.0	30.8



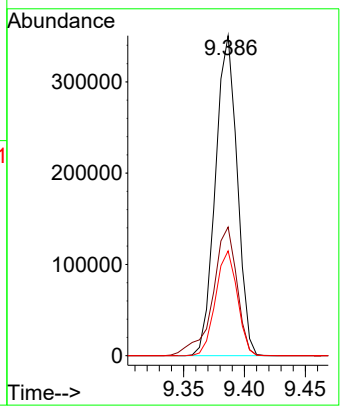


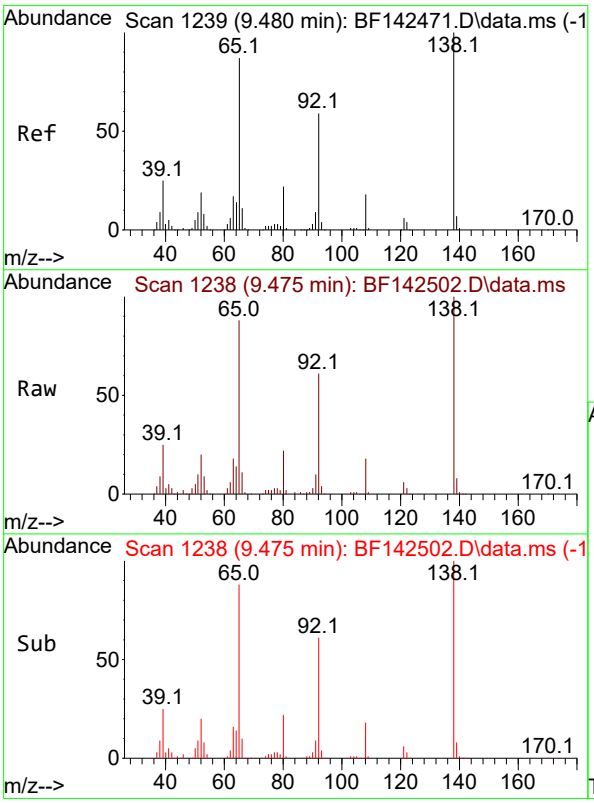
#47
2-Chloronaphthalene
Concen: 38.623 ng
RT: 9.386 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 436815

Ion	Ratio	Lower	Upper
162	100		
127	40.2	33.5	50.3
164	32.7	26.1	39.1

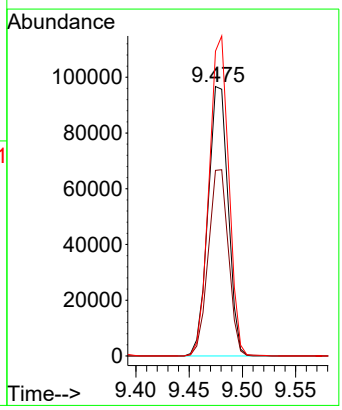


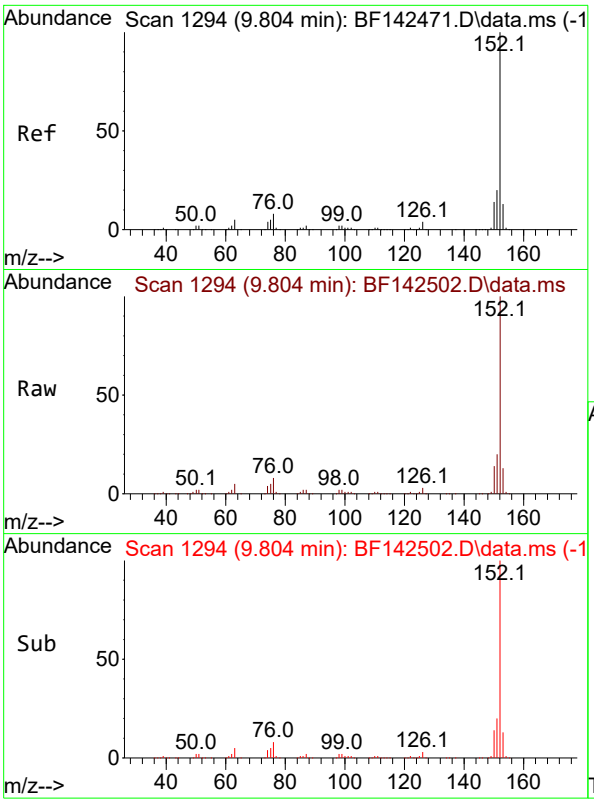


#48
2-Nitroaniline
Concen: 38.921 ng
RT: 9.475 min Scan# 1238
Delta R.T. -0.011 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion: 65 Resp: 127235

Ion	Ratio	Lower	Upper
65	100		
92	68.9	54.4	81.6
138	113.1	91.4	137.2



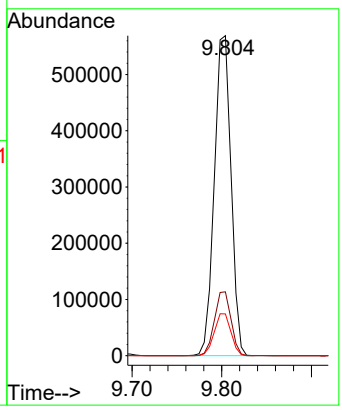


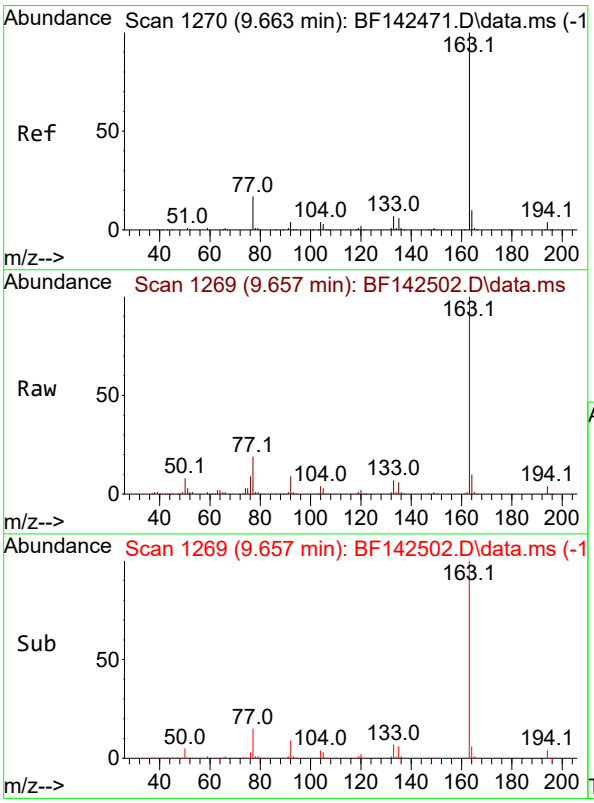
#49
Acenaphthylene
Concen: 38.516 ng
RT: 9.804 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 735563

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.8
153	13.1	10.6	15.8

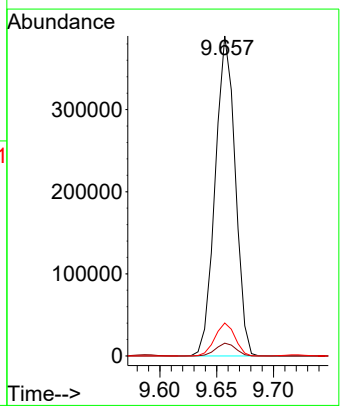


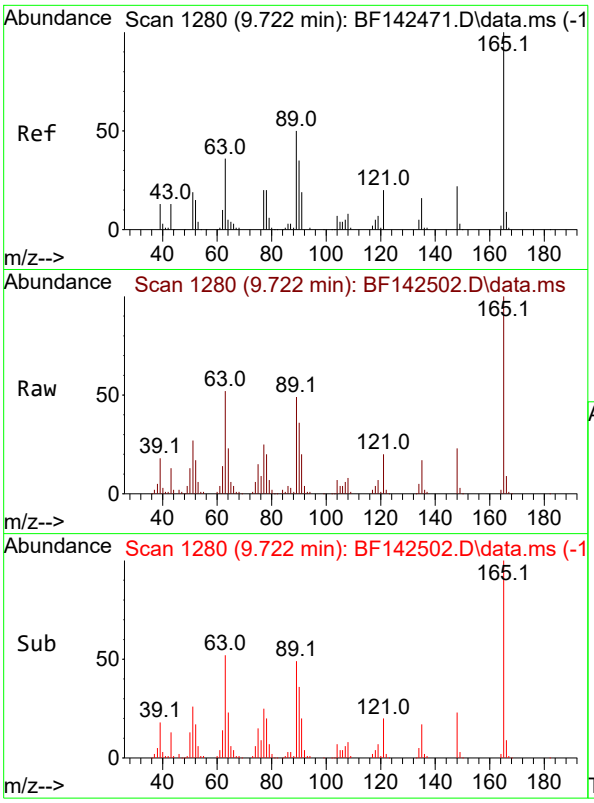


#50
Dimethylphthalate
Concen: 36.782 ng
RT: 9.657 min Scan# 1269
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:163 Resp: 478872

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.3	4.9
164	10.3	8.2	12.4



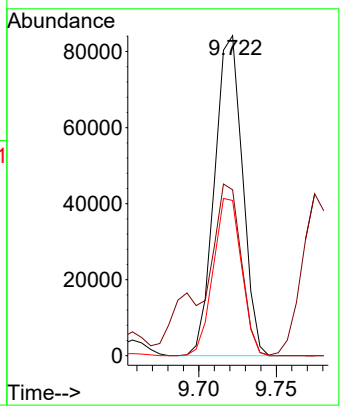


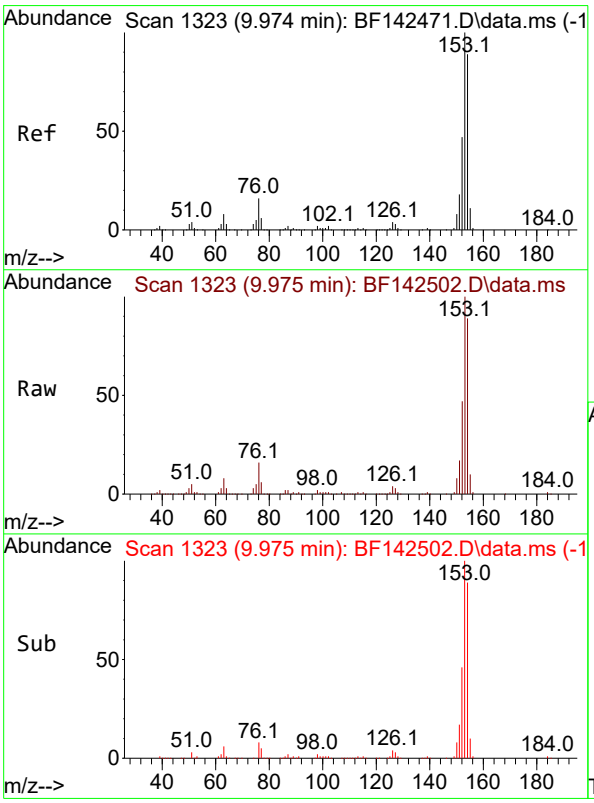
#51
2,6-Dinitrotoluene
Concen: 37.548 ng
RT: 9.722 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 105507

Ion	Ratio	Lower	Upper
165	100		
63	51.9	42.9	64.3
89	48.5	40.2	60.4

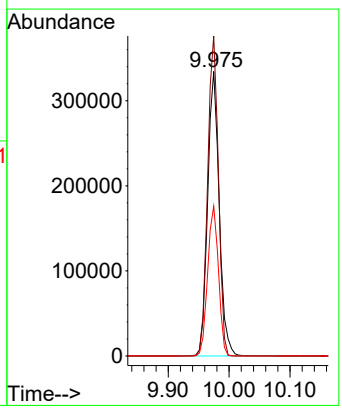


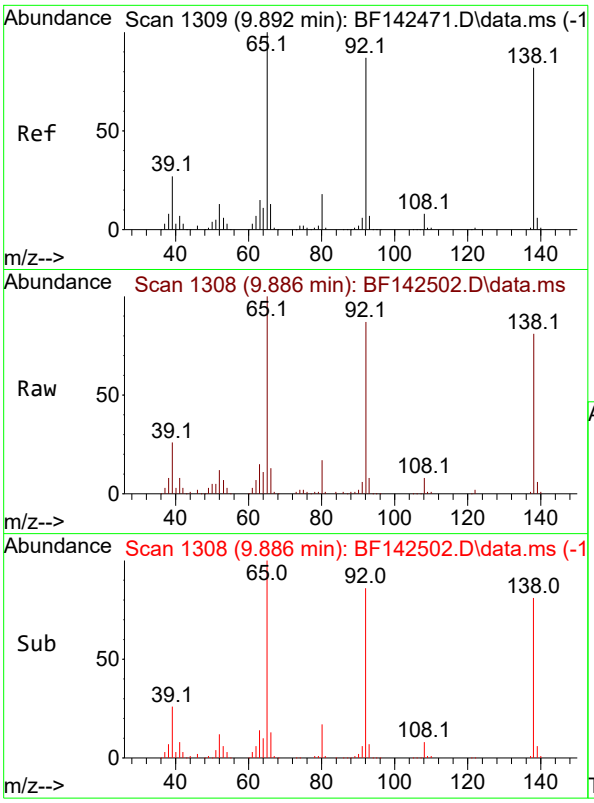


#52
Acenaphthene
Concen: 37.846 ng
RT: 9.975 min Scan# 1323
Delta R.T. -0.005 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:154 Resp: 441339

Ion	Ratio	Lower	Upper
154	100		
153	112.5	90.0	135.0
152	52.7	42.6	64.0



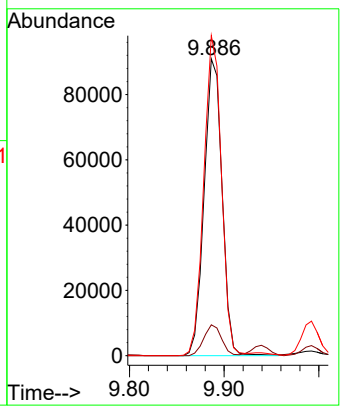


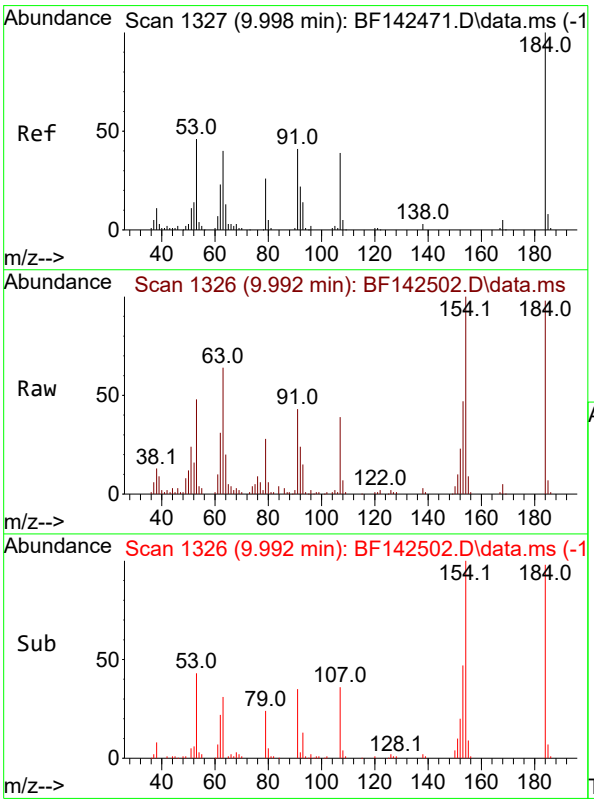
#53
3-Nitroaniline
Concen: 38.933 ng
RT: 9.886 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 119491

Ion	Ratio	Lower	Upper
138	100		
108	10.4	8.1	12.1
92	107.8	85.2	127.8

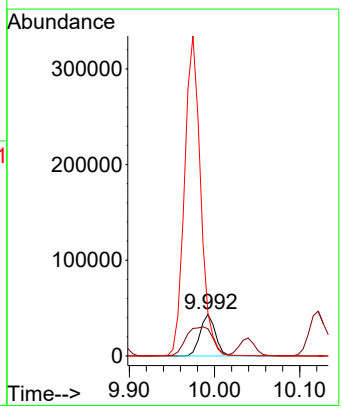


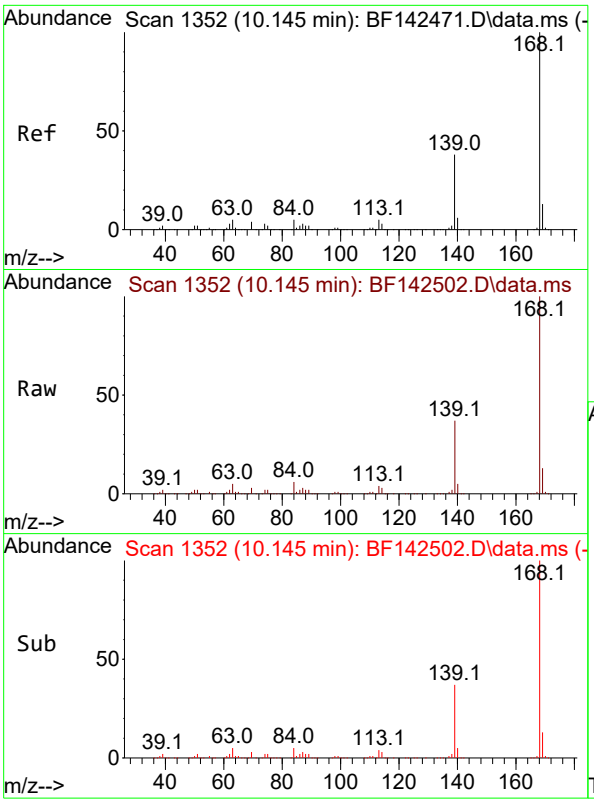


#54
2,4-Dinitrophenol
Concen: 37.458 ng
RT: 9.992 min Scan# 1326
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:184 Resp: 54378

Ion	Ratio	Lower	Upper
184	100		
63	65.3	46.3	69.5
154	101.8	56.8	85.2#



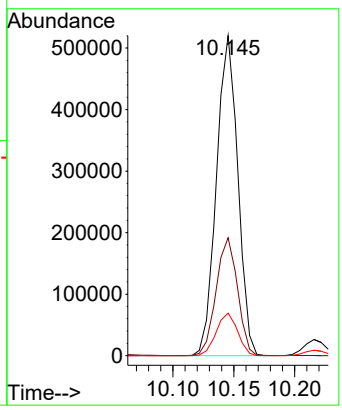


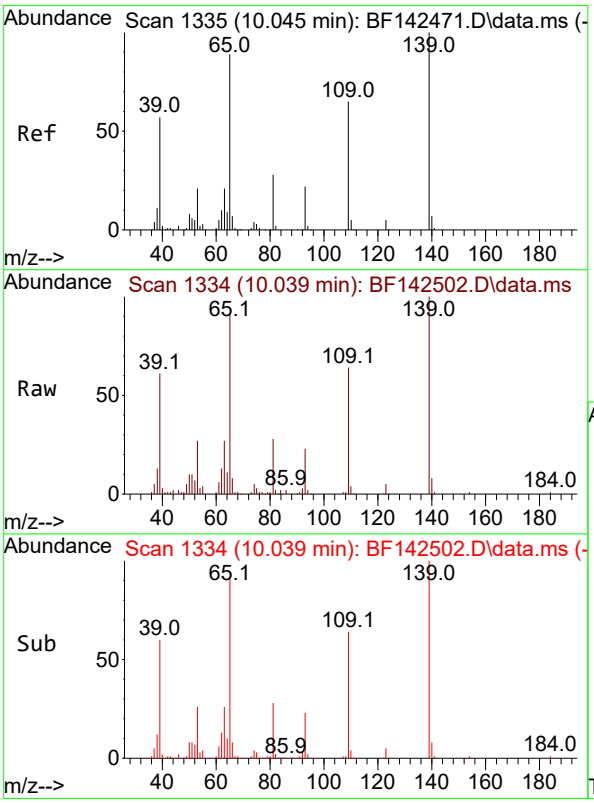
#55
Dibenzofuran
Concen: 37.851 ng
RT: 10.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 635174

Ion	Ratio	Lower	Upper
168	100		
139	36.9	30.2	45.2
169	13.3	10.7	16.1

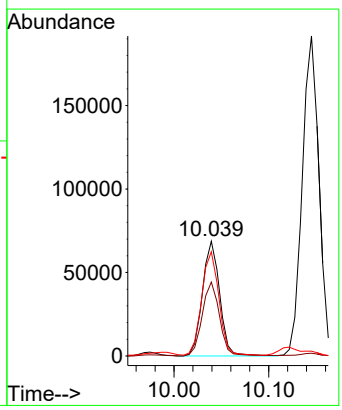


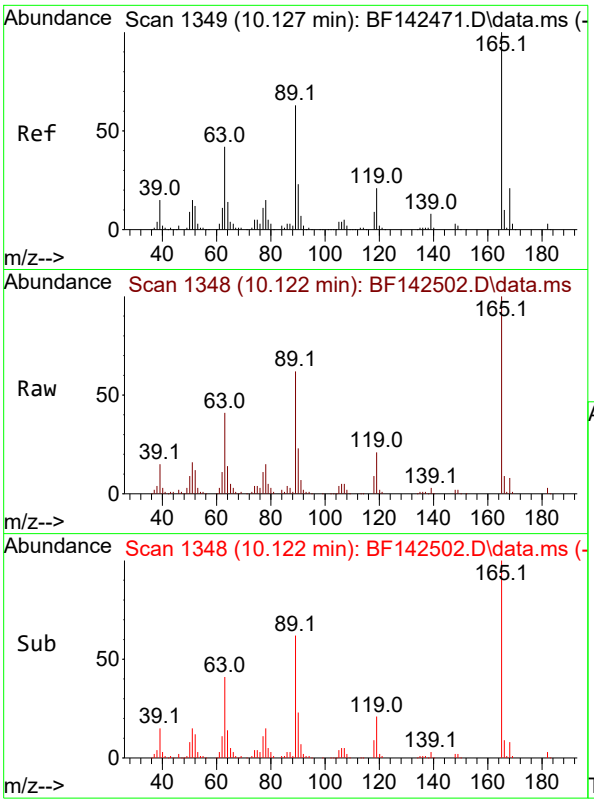


#56
4-Nitrophenol
Concen: 38.423 ng
RT: 10.039 min Scan# 1334
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:139 Resp: 87011

Ion	Ratio	Lower	Upper
139	100		
109	64.4	45.1	85.1
65	90.7	69.7	109.7



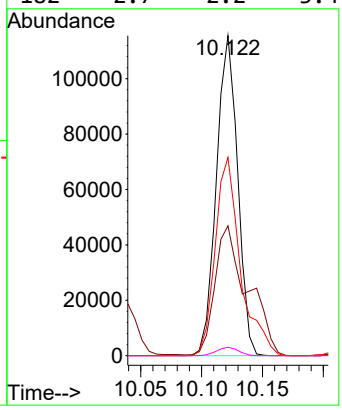


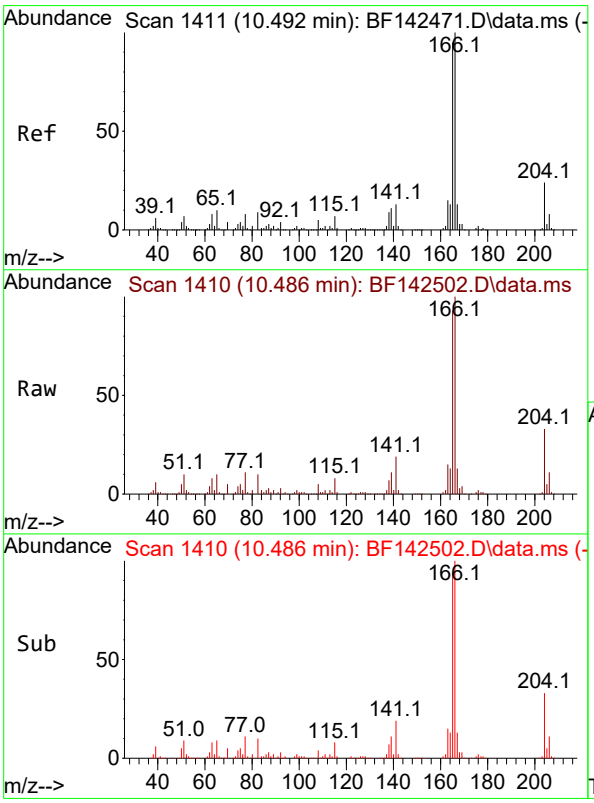
#57
2,4-Dinitrotoluene
Concen: 38.274 ng
RT: 10.122 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 140453

Ion	Ratio	Lower	Upper
165	100		
63	40.6	33.6	50.4
89	62.0	50.2	75.4
182	2.7	2.2	3.4

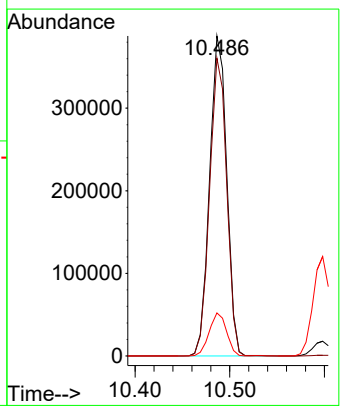


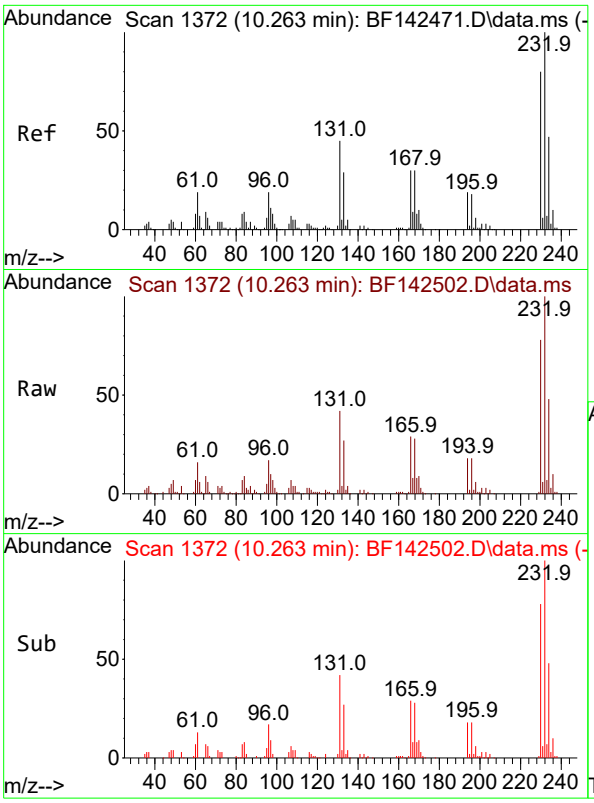


#58
Fluorene
Concen: 37.519 ng
RT: 10.486 min Scan# 1410
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:166 Resp: 486395

Ion	Ratio	Lower	Upper
166	100		
165	93.1	75.8	113.8
167	13.4	10.6	16.0



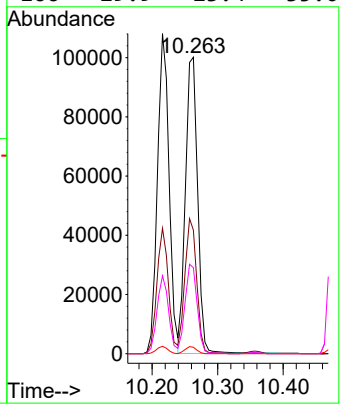


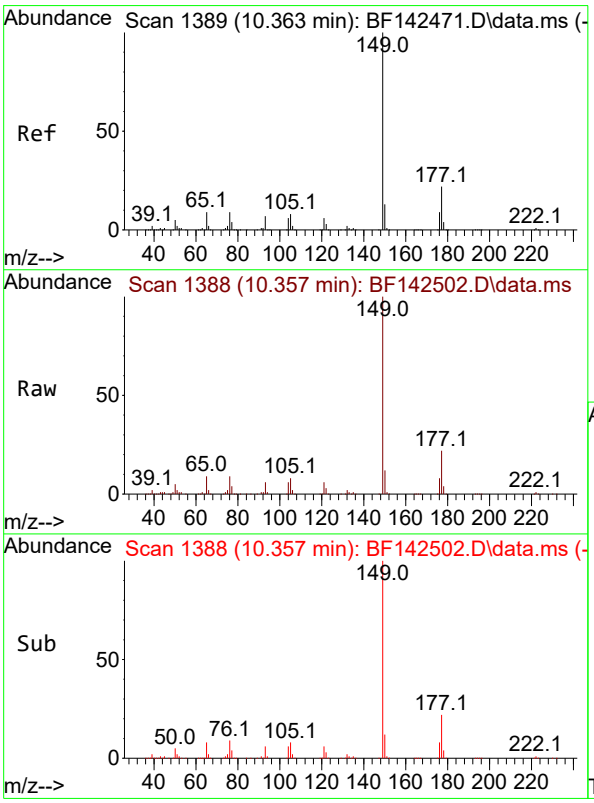
#59
2,3,4,6-Tetrachlorophenol
Concen: 38.106 ng
RT: 10.263 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 128136

Ion	Ratio	Lower	Upper
232	100		
131	44.1	35.2	52.8
130	2.2	1.7	2.5
166	29.9	23.4	35.0

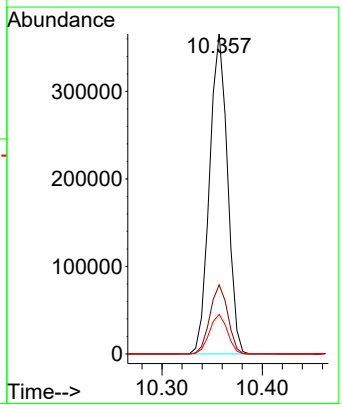


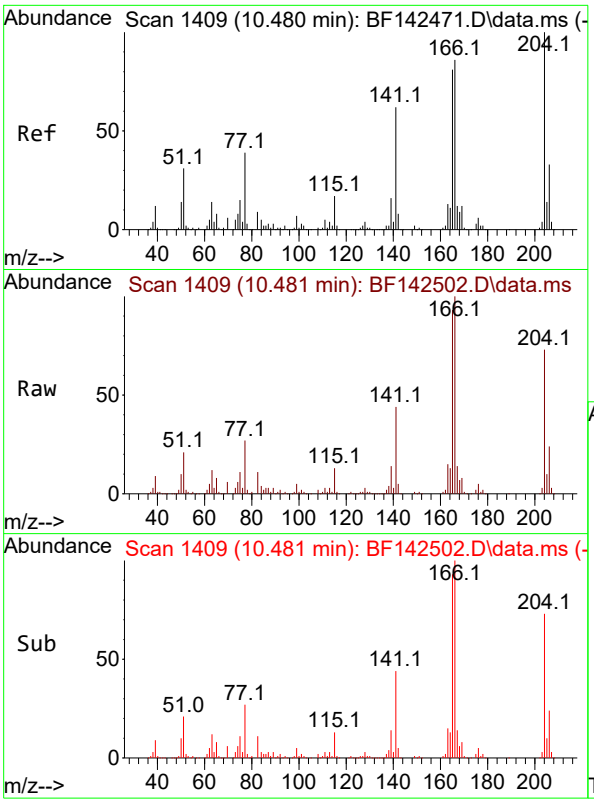


#60
Diethylphthalate
Concen: 35.612 ng
RT: 10.357 min Scan# 1388
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:149 Resp: 452810

Ion	Ratio	Lower	Upper
149	100		
177	21.6	17.6	26.4
150	12.4	10.1	15.1



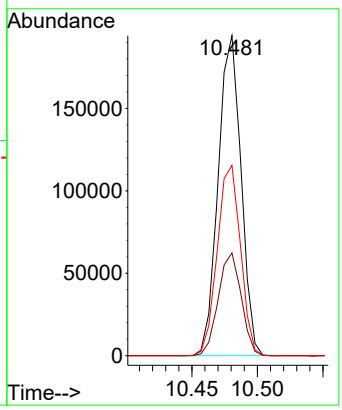


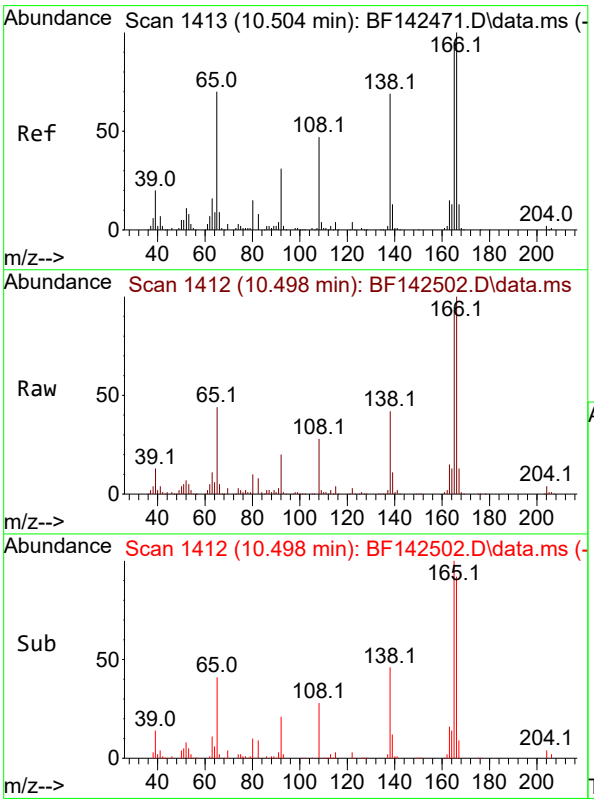
#61
4-Chlorophenyl-phenylether
Concen: 36.933 ng
RT: 10.481 min Scan# 14
Delta R.T. -0.005 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 235211

Ion	Ratio	Lower	Upper
204	100		
206	32.1	26.3	39.5
141	59.4	49.5	74.3

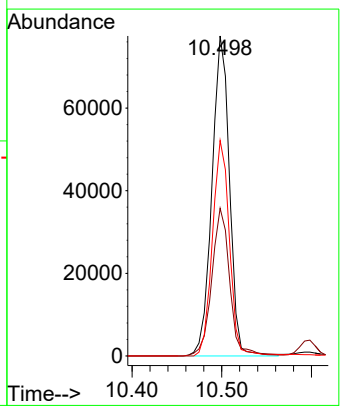


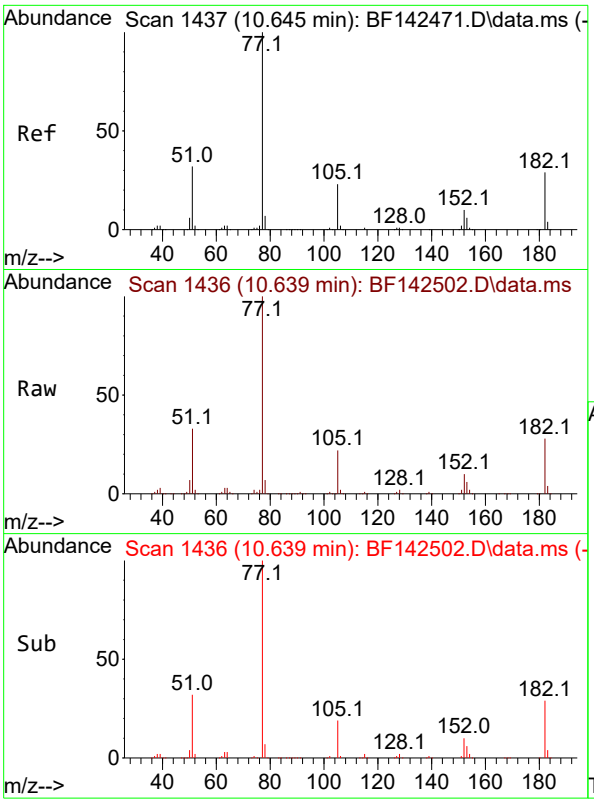


#62
4-Nitroaniline
Concen: 37.776 ng
RT: 10.498 min Scan# 1412
Delta R.T. -0.017 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:138 Resp: 105151

Ion	Ratio	Lower	Upper
138	100		
92	46.2	26.0	66.0
108	67.4	48.4	88.4



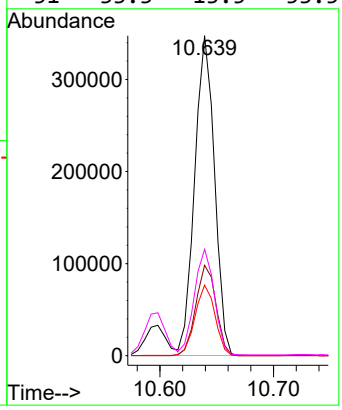


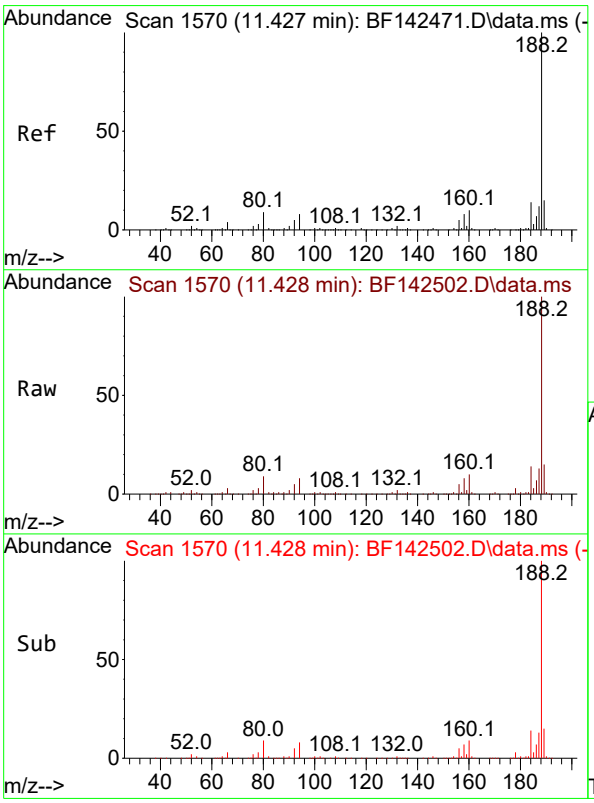
#63
Azobenzene
Concen: 36.891 ng
RT: 10.639 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 421311

Ion	Ratio	Lower	Upper
77	100		
182	28.3	9.0	49.0
105	22.0	2.4	42.4
51	33.3	13.5	53.5

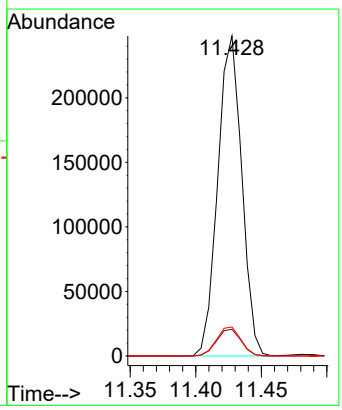


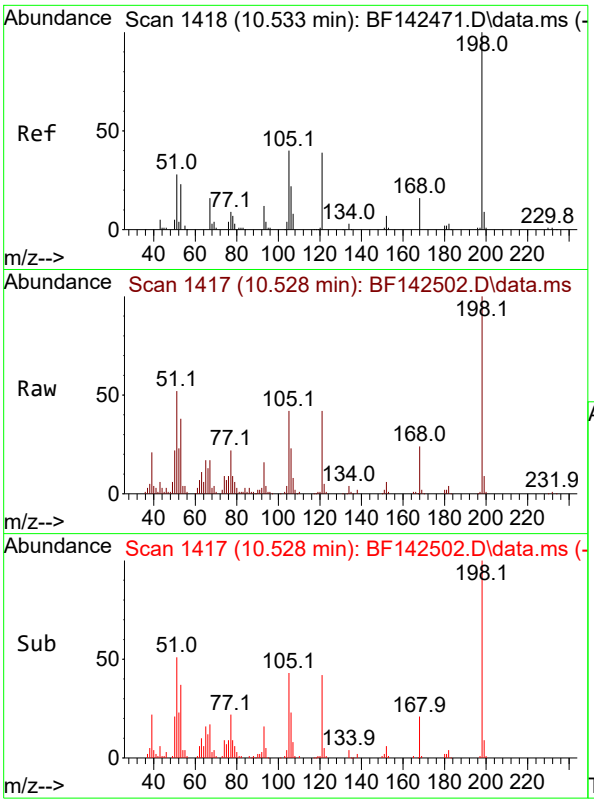


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:188 Resp: 315055

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.6	10.0
80	9.1	7.4	11.0



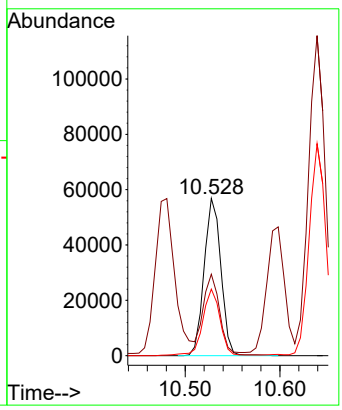


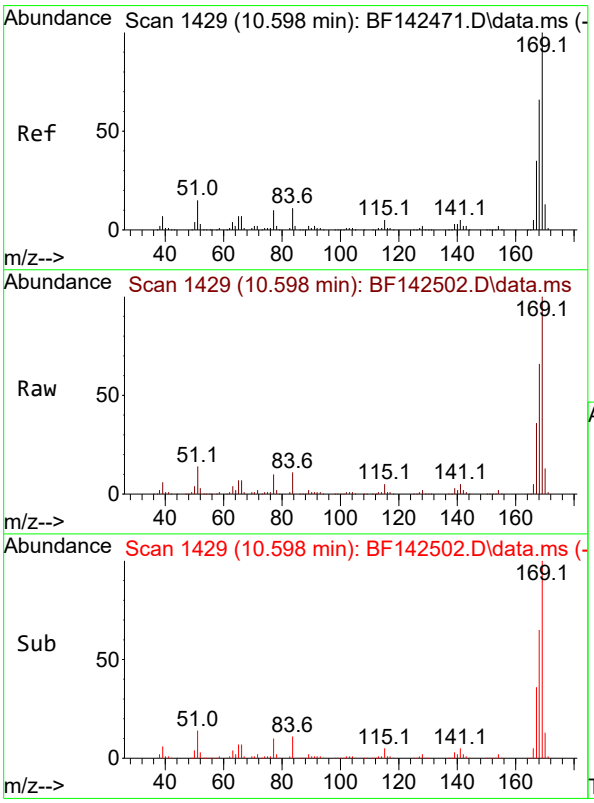
#65
4,6-Dinitro-2-methylphenol
Concen: 39.872 ng
RT: 10.528 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 70104

Ion	Ratio	Lower	Upper
198	100		
51	51.8	28.3	68.3
105	42.4	21.3	61.3

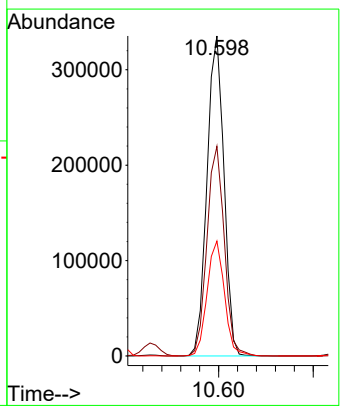


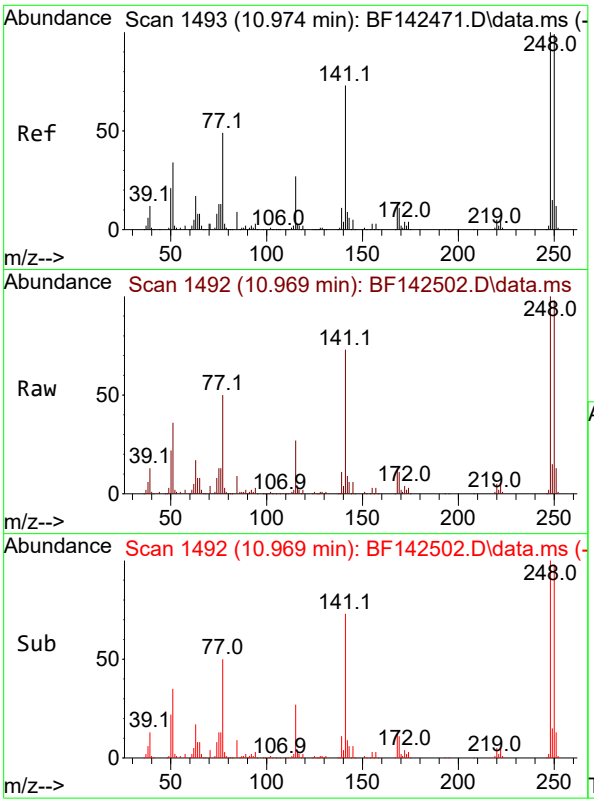


#66
n-Nitrosodiphenylamine
Concen: 38.637 ng
RT: 10.598 min Scan# 1429
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:169 Resp: 416459

Ion	Ratio	Lower	Upper
169	100		
168	65.5	52.7	79.1
167	35.9	28.3	42.5



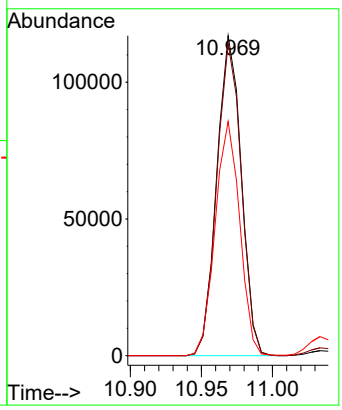


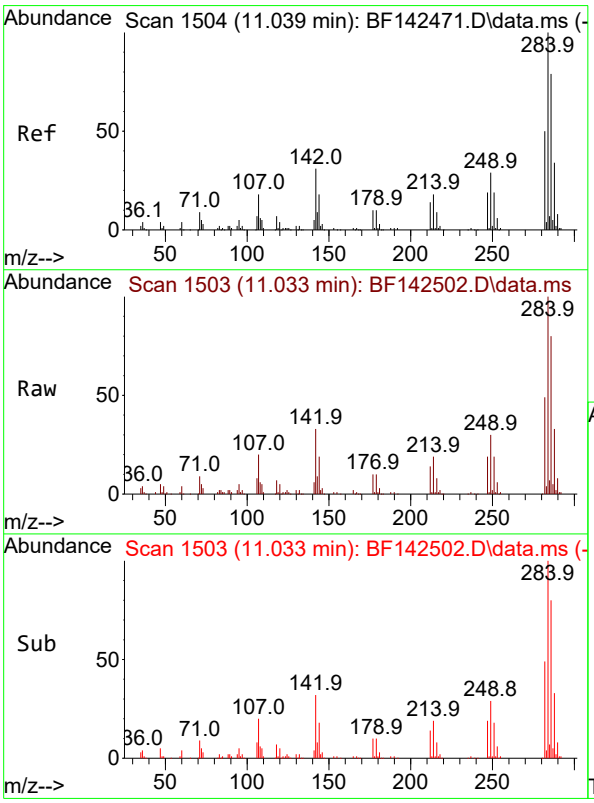
#67
4-Bromophenyl-phenylether
Concen: 37.808 ng
RT: 10.969 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 140846

Ion	Ratio	Lower	Upper
248	100		
250	97.6	79.0	118.4
141	73.2	58.4	87.6

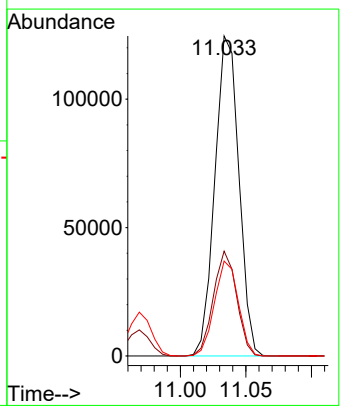


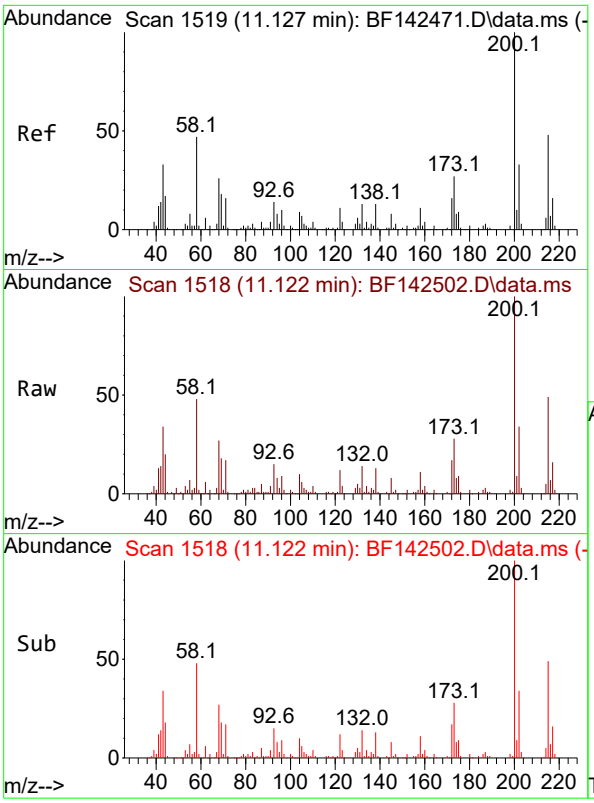


#68
Hexachlorobenzene
Concen: 38.456 ng
RT: 11.033 min Scan# 1503
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:284 Resp: 158451

Ion	Ratio	Lower	Upper
284	100		
142	32.7	24.8	37.2
249	29.7	23.6	35.4



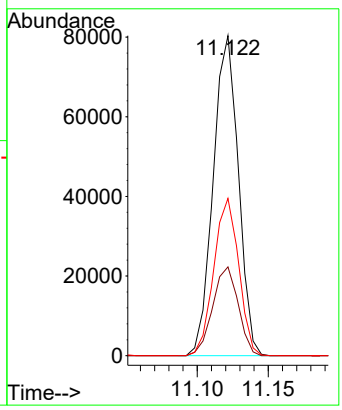


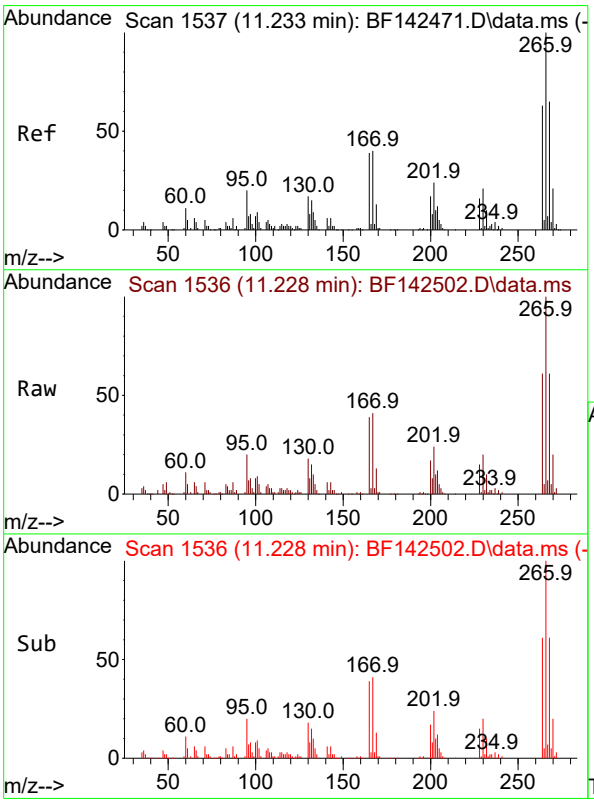
#69
Atrazine
Concen: 34.563 ng
RT: 11.122 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 98938

Ion	Ratio	Lower	Upper
200	100		
173	27.7	7.4	47.4
215	49.1	28.5	68.5

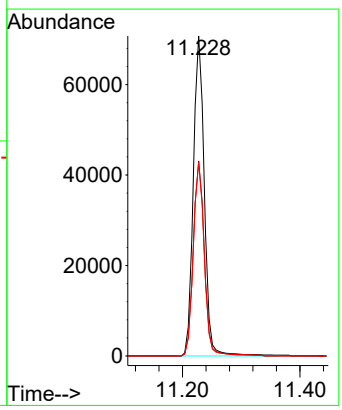


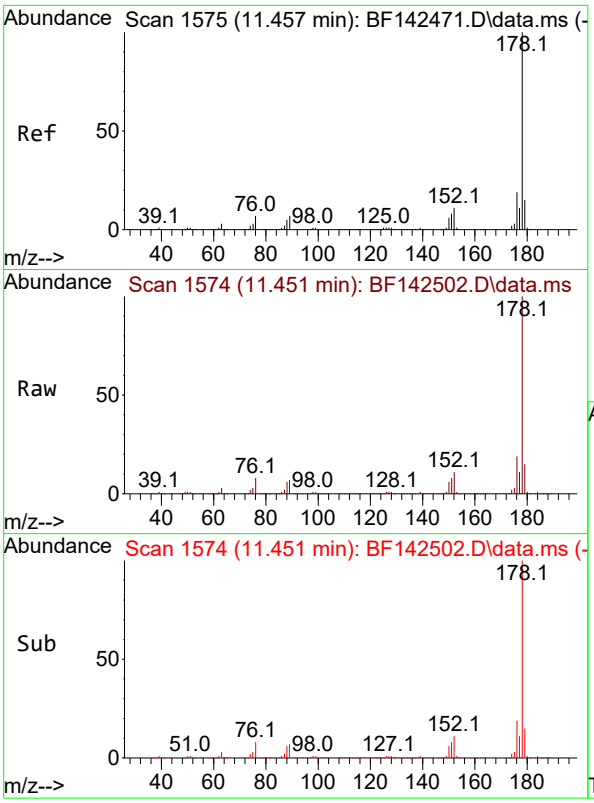


#70
Pentachlorophenol
Concen: 39.493 ng
RT: 11.228 min Scan# 1536
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:266 Resp: 91869

Ion	Ratio	Lower	Upper
266	100		
268	60.9	51.7	77.5
264	60.6	50.4	75.6



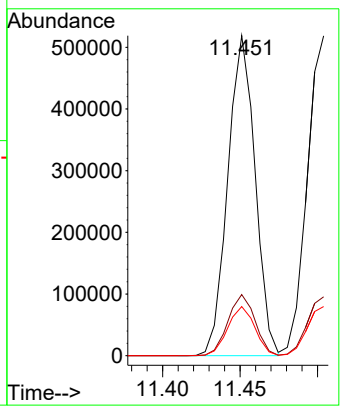


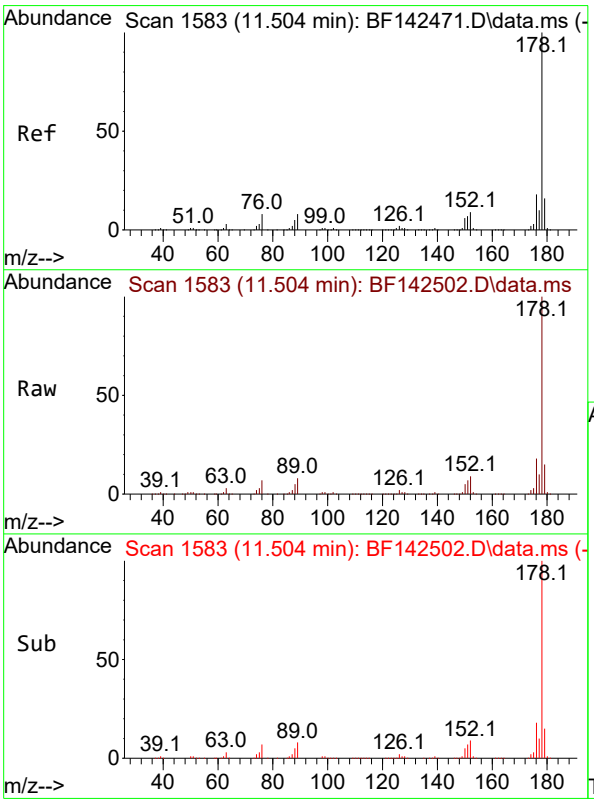
#71
Phenanthrene
Concen: 37.751 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 635627

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	15.3	12.3	18.5

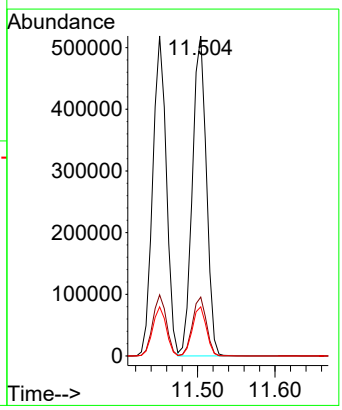


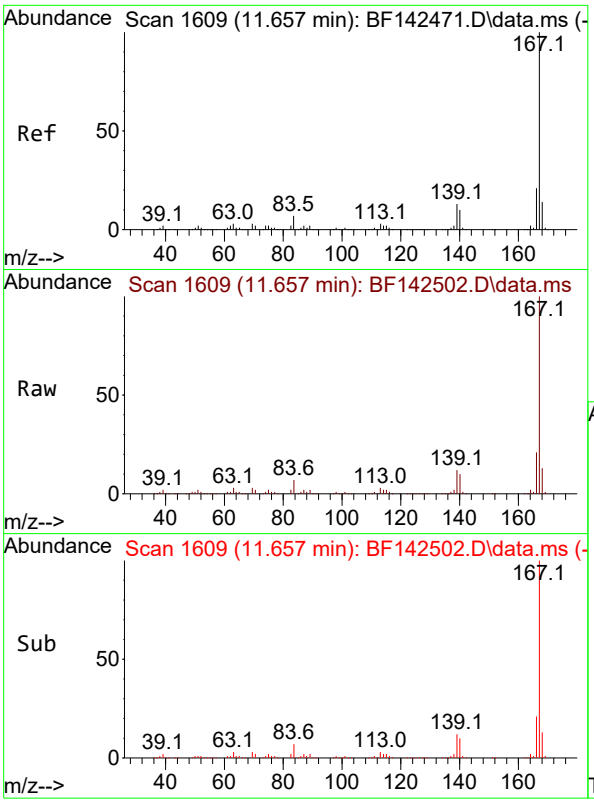


#72
Anthracene
Concen: 37.800 ng
RT: 11.504 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:178 Resp: 649550

Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.6	21.8
179	15.4	12.4	18.6



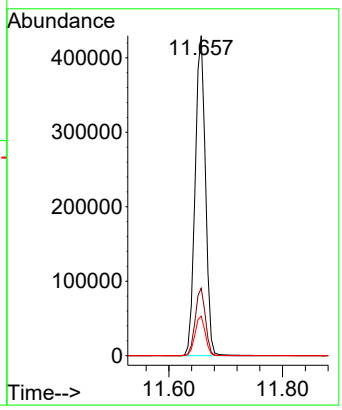


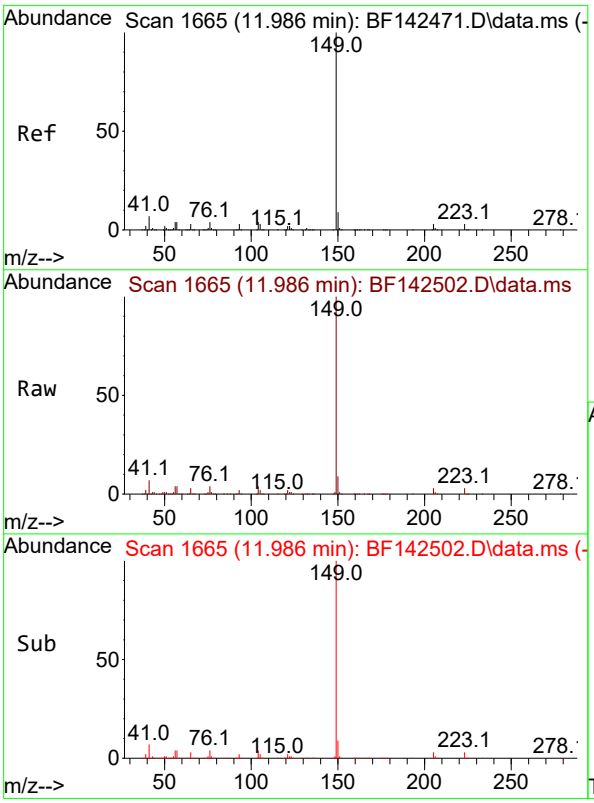
#73
Carbazole
Concen: 37.019 ng
RT: 11.657 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 543821

Ion	Ratio	Lower	Upper
167	100		
166	21.1	16.9	25.3
139	12.4	10.2	15.4

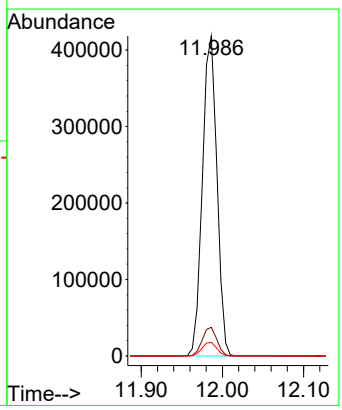


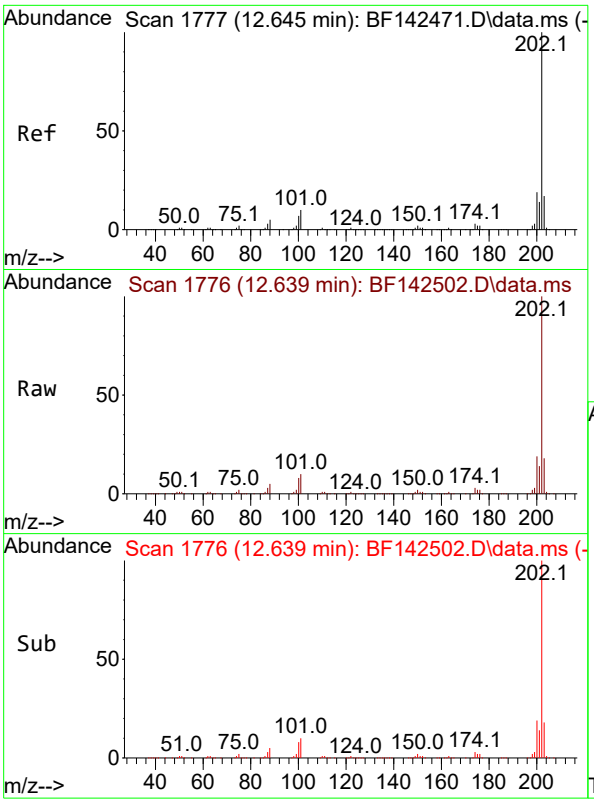


#74
Di-n-butylphthalate
Concen: 32.244 ng
RT: 11.986 min Scan# 1665
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:149 Resp: 518477

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.3	10.9
104	4.2	3.6	5.4



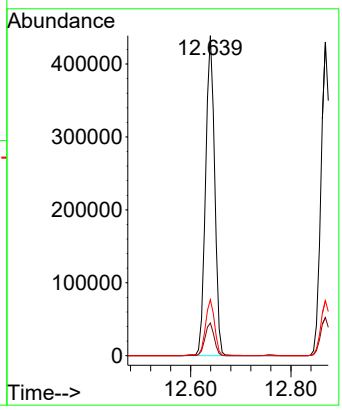


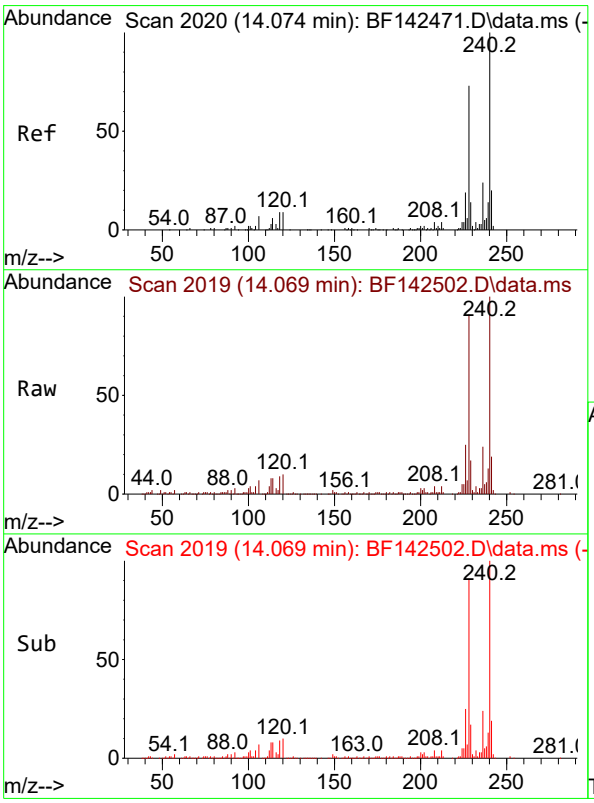
#75
Fluoranthene
Concen: 35.154 ng
RT: 12.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 553057

Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	29.6
203	17.5	0.0	37.2

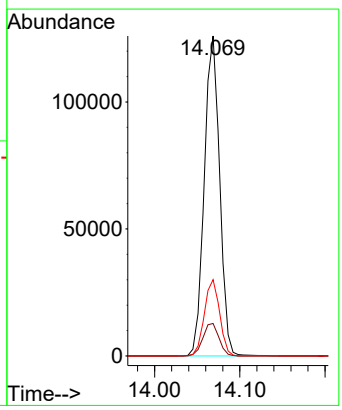


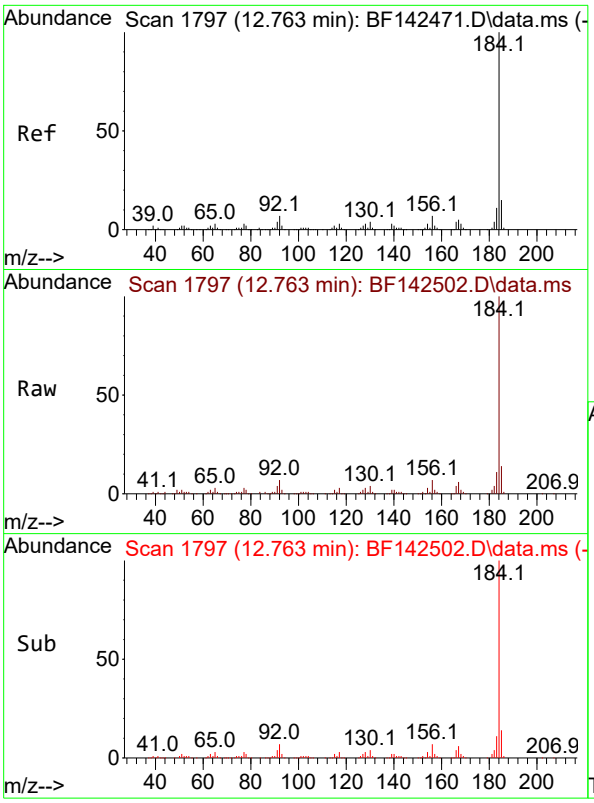


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:240 Resp: 157895

Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.5	11.3
236	23.9	19.6	29.4



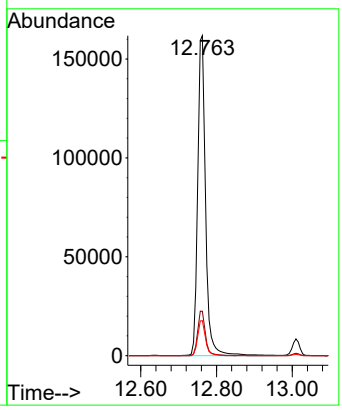


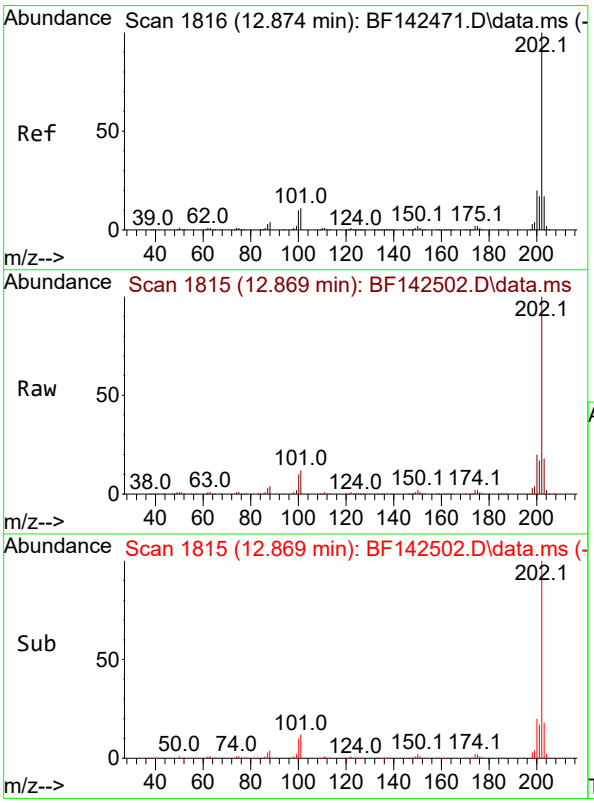
#77
Benzidine
Concen: 40.217 ng
RT: 12.763 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 236304

Ion	Ratio	Lower	Upper
184	100		
185	13.9	11.6	17.4
183	11.0	9.0	13.4

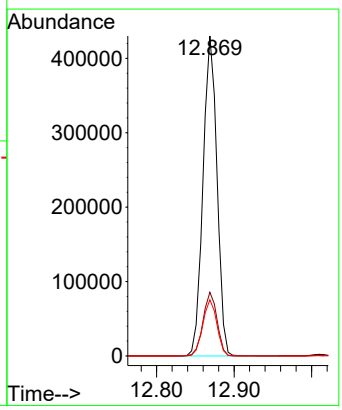


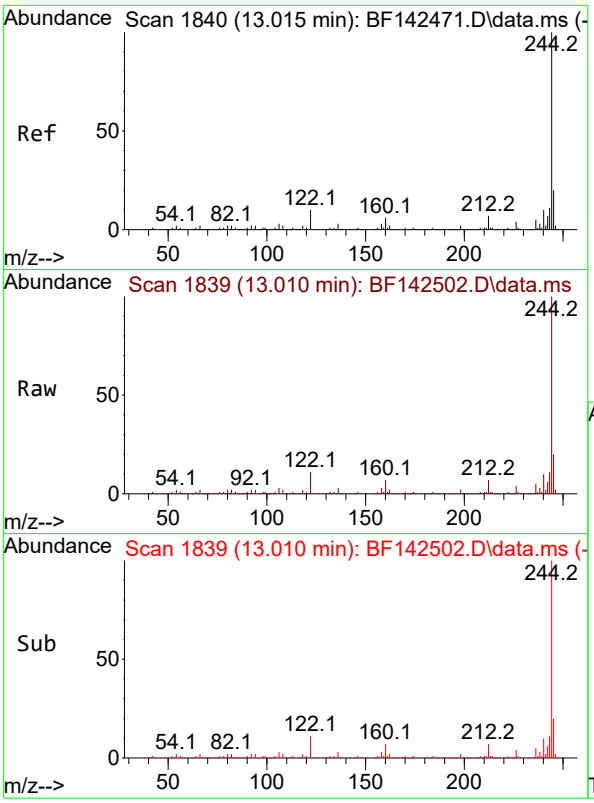


#78
Pyrene
Concen: 36.548 ng
RT: 12.869 min Scan# 1815
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:202 Resp: 538324

Ion	Ratio	Lower	Upper
202	100		
200	19.9	16.1	24.1
203	17.6	13.9	20.9



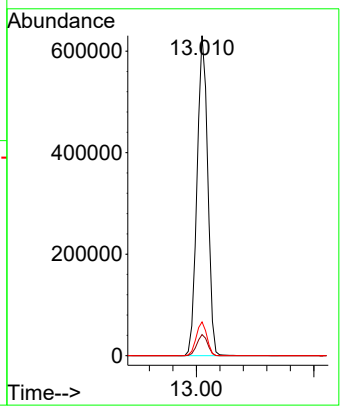


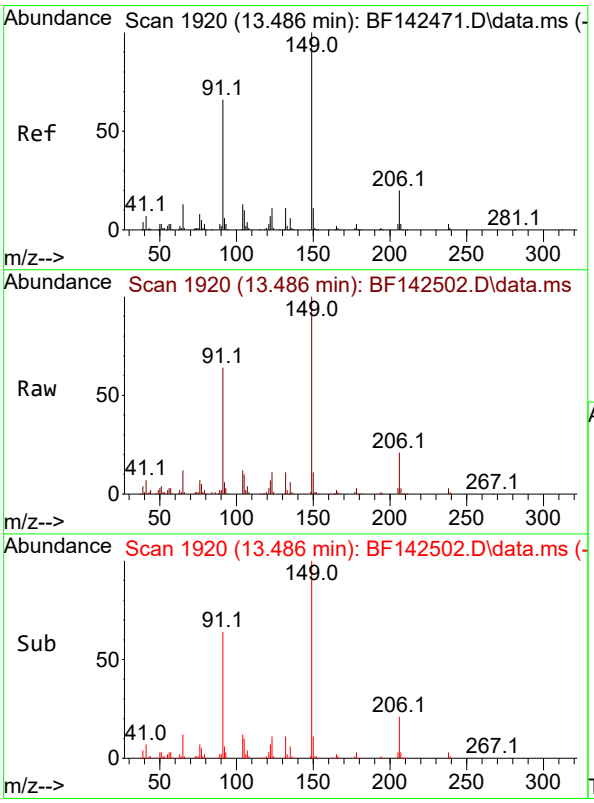
#79
Terphenyl-d14
Concen: 68.835 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 795345

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.3	7.9
122	10.6	8.2	12.2

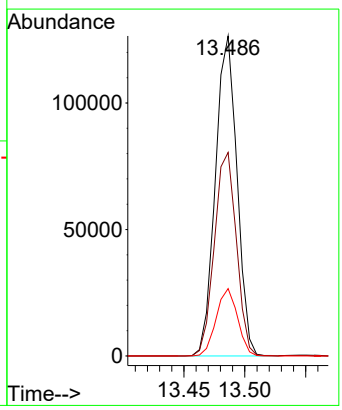


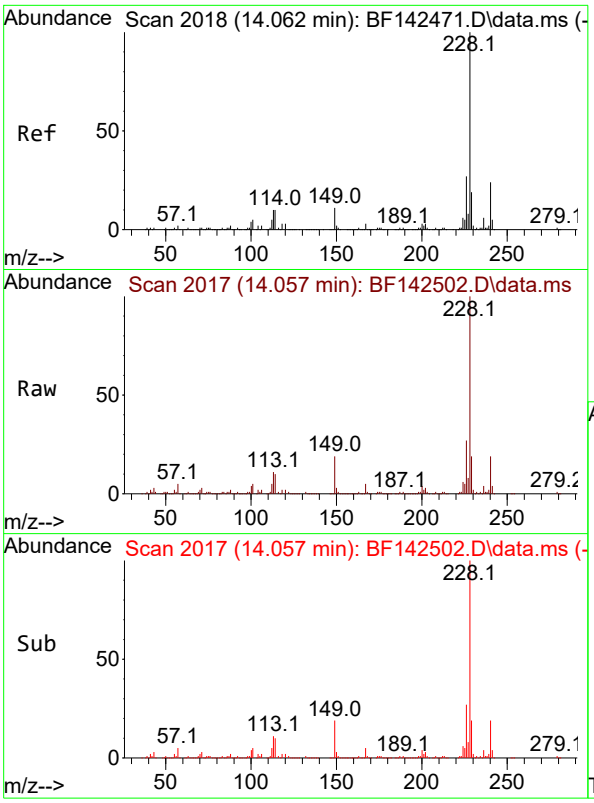


#80
Butylbenzylphthalate
Concen: 38.513 ng
RT: 13.486 min Scan# 1920
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:149 Resp: 156746

Ion	Ratio	Lower	Upper
149	100		
91	63.6	52.9	79.3
206	21.0	16.2	24.2



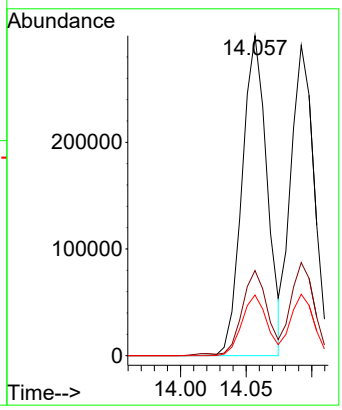


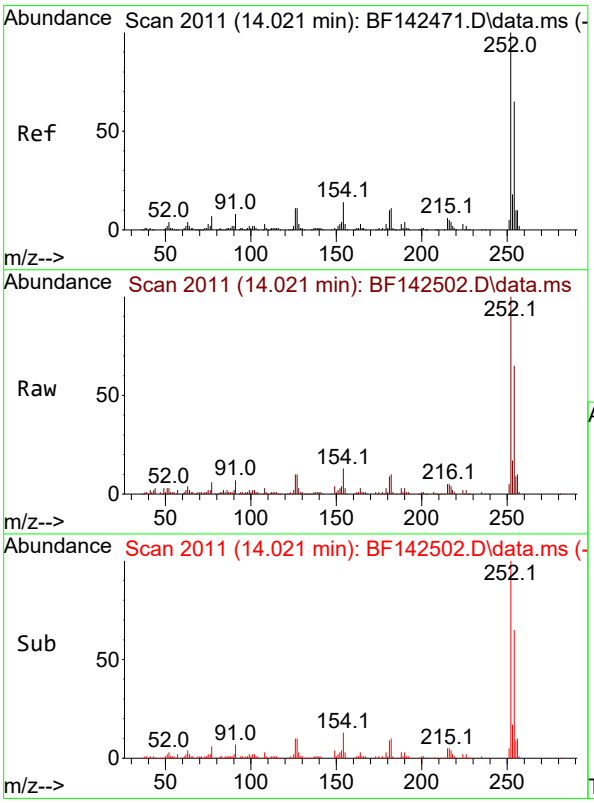
#81
Benzo(a)anthracene
Concen: 37.692 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 397403

Ion	Ratio	Lower	Upper
228	100		
226	26.6	21.2	31.8
229	18.9	15.5	23.3

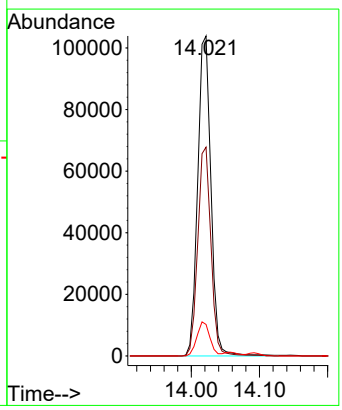


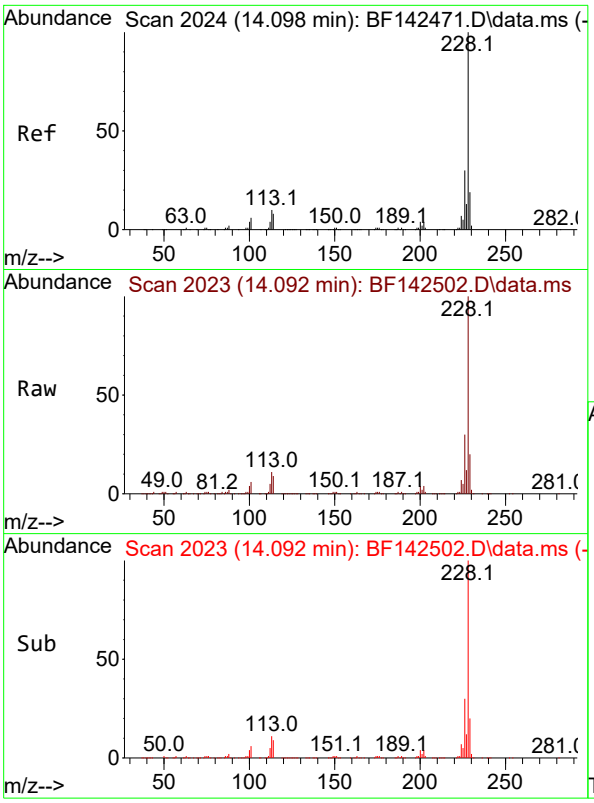


#82
3,3'-Dichlorobenzidine
Concen: 43.748 ng
RT: 14.021 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:252 Resp: 139902

Ion	Ratio	Lower	Upper
252	100		
254	65.3	52.0	78.0
126	9.8	8.9	13.3



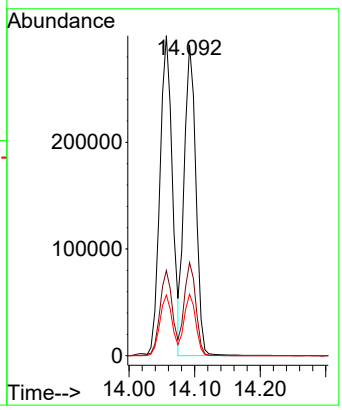


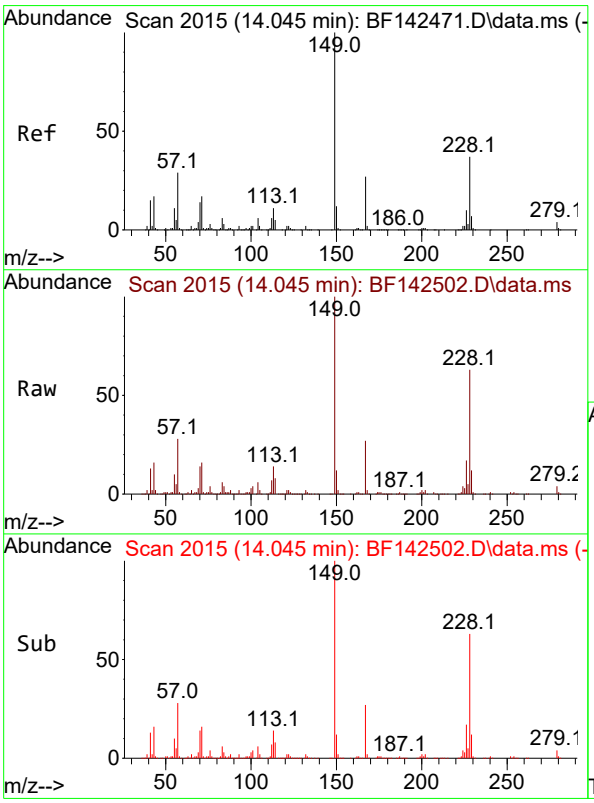
#83
Chrysene
Concen: 37.865 ng
RT: 14.092 min Scan# 2(
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 358734

Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.8	35.6
229	19.8	15.4	23.2

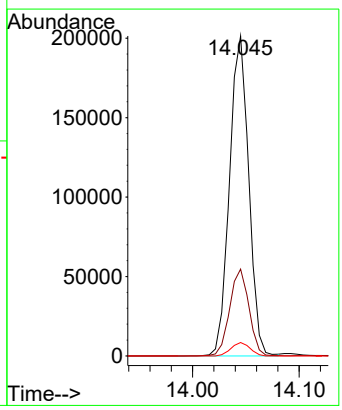


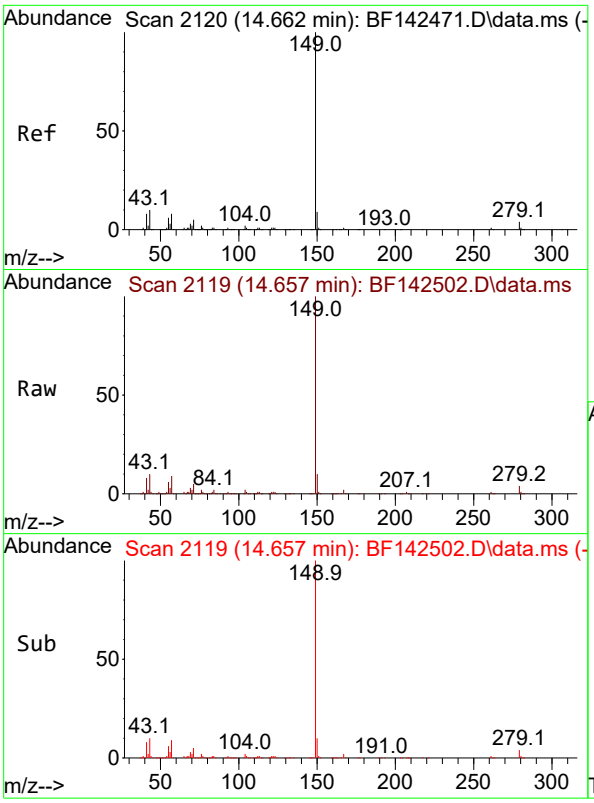


#84
Bis(2-ethylhexyl)phthalate
Concen: 48.560 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:149 Resp: 253005

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.5	32.3
279	4.2	3.2	4.8



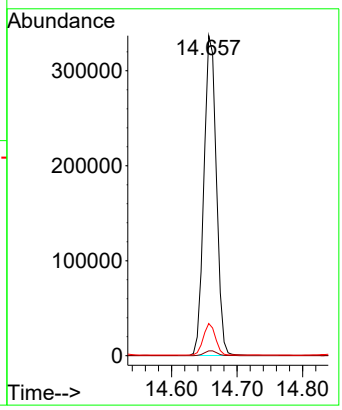


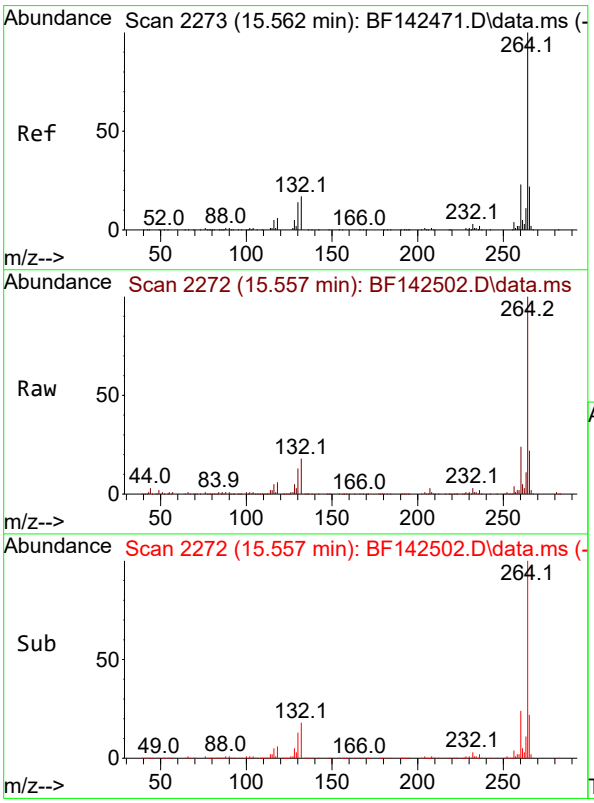
#85
Di-n-octyl phthalate
Concen: 43.705 ng
RT: 14.657 min Scan# 2
Delta R.T. -0.011 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 445243

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	9.6	7.9	11.9

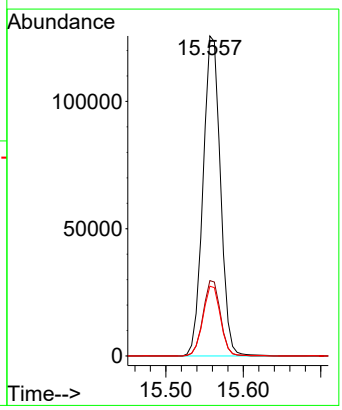


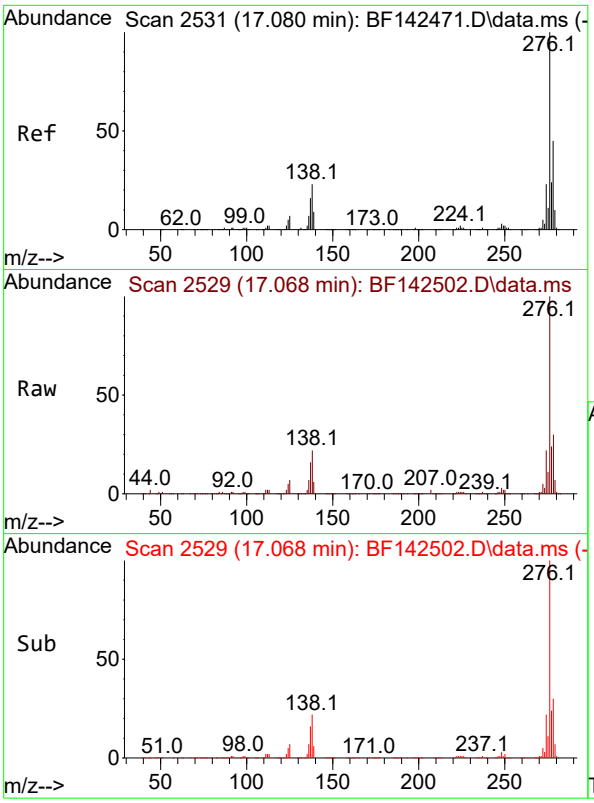


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:264 Resp: 195527

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.6	28.0
265	21.8	17.7	26.5



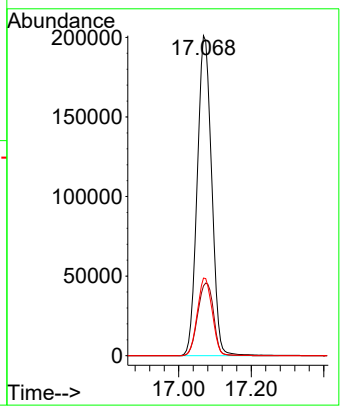


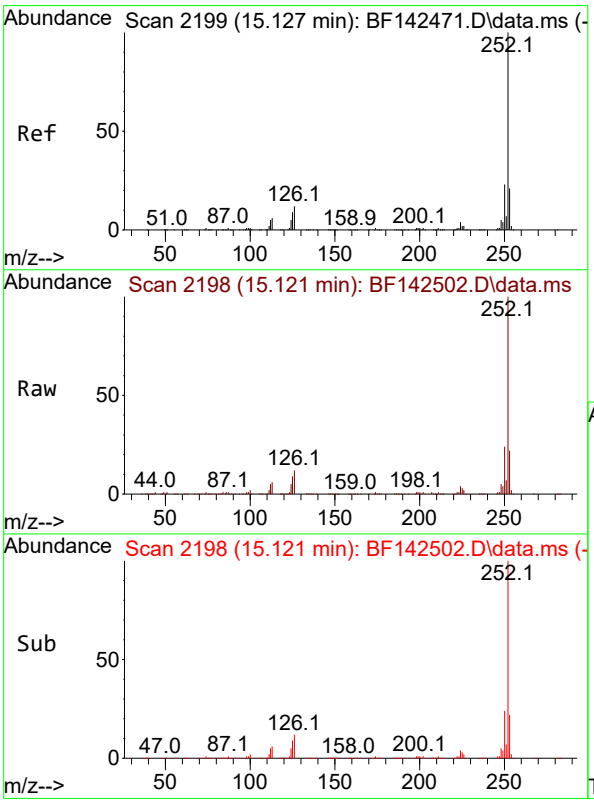
#87
Indeno(1,2,3-cd)pyrene
Concen: 37.736 ng
RT: 17.068 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 553919

Ion	Ratio	Lower	Upper
276	100		
138	24.9	19.9	29.9
277	25.0	20.2	30.2

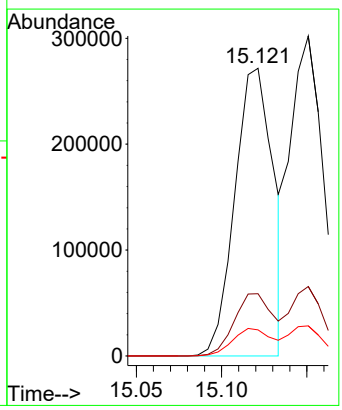


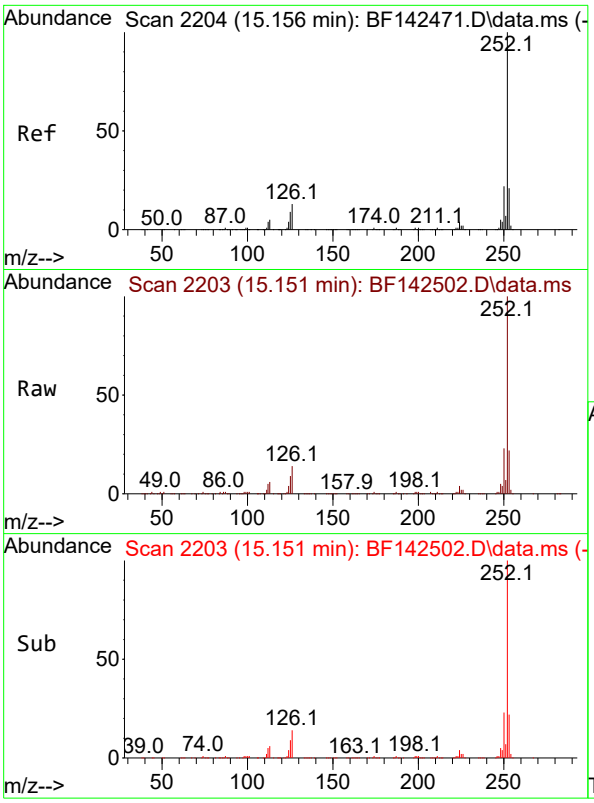


#88
Benzo(b)fluoranthene
Concen: 36.747 ng
RT: 15.121 min Scan# 2198
Delta R.T. -0.006 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:252 Resp: 425246

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.0	25.4
125	9.1	7.4	11.0



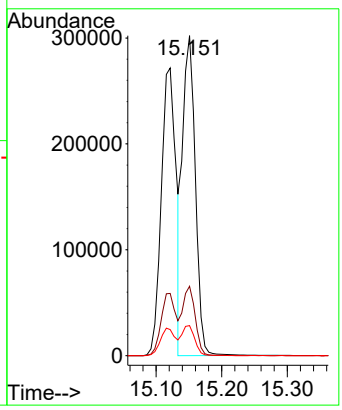


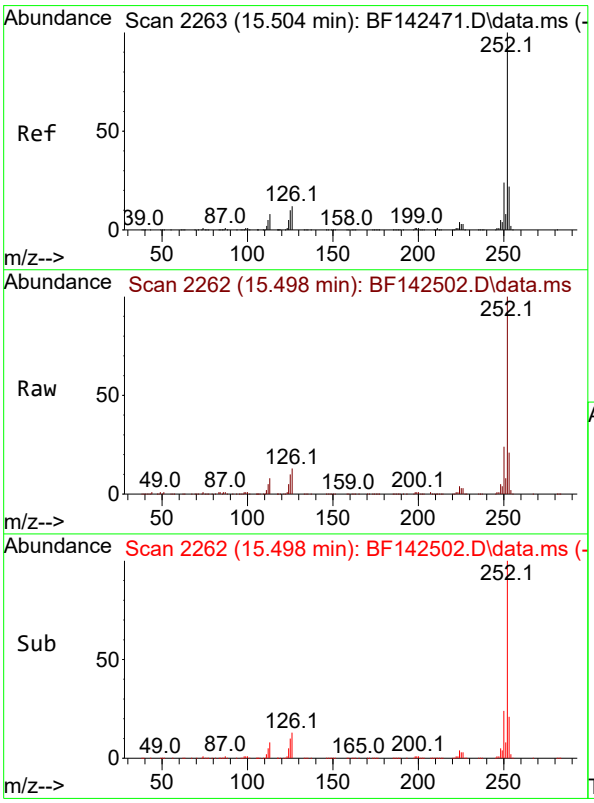
#89
Benzo(k)fluoranthene
Concen: 37.669 ng
RT: 15.151 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 408277

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.0	25.4
125	9.4	7.3	10.9

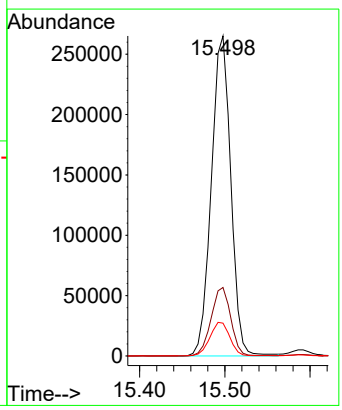


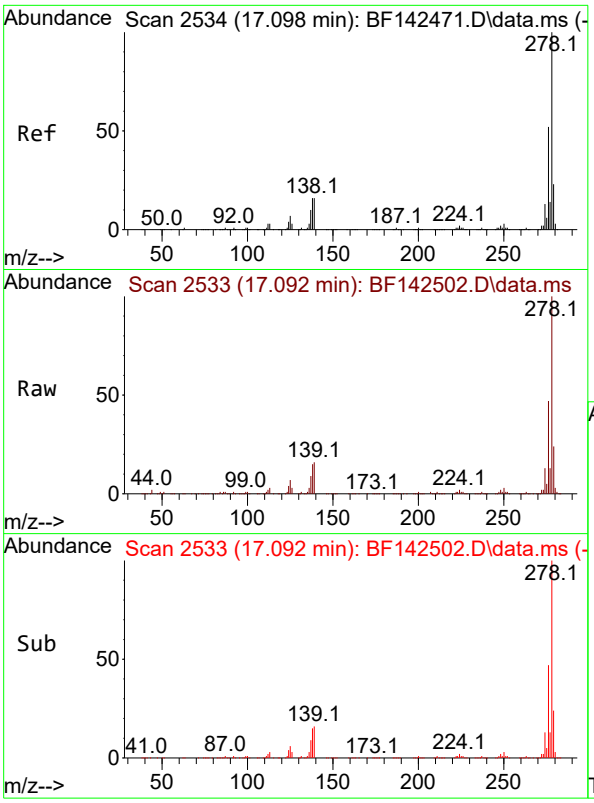


#90
Benzo(a)pyrene
Concen: 38.641 ng
RT: 15.498 min Scan# 2262
Delta R.T. -0.012 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:252 Resp: 421492

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.4	26.0
125	10.2	7.9	11.9



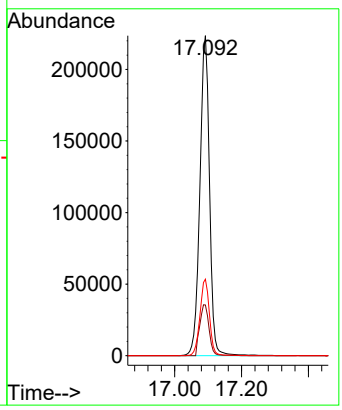


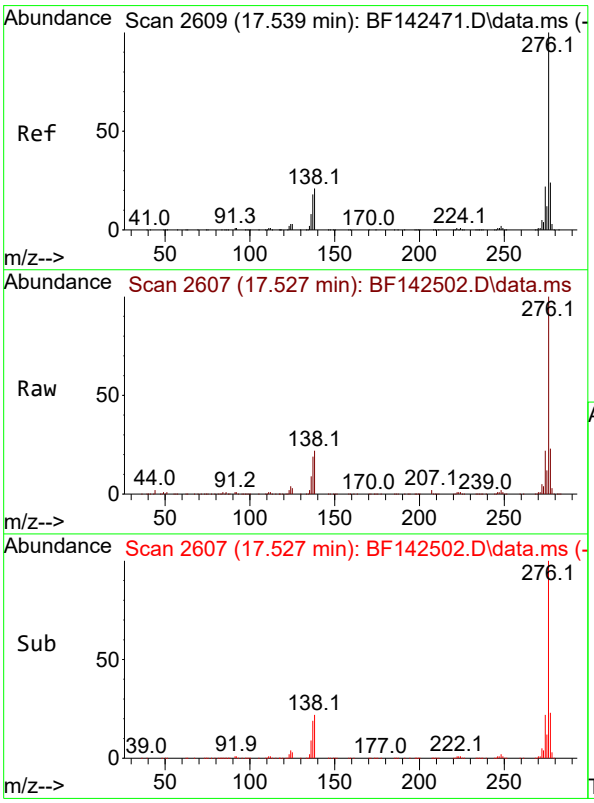
#91
Dibenzo(a,h)anthracene
Concen: 37.559 ng
RT: 17.092 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 447155

Ion	Ratio	Lower	Upper
278	100		
139	15.8	12.8	19.2
279	23.9	18.6	28.0

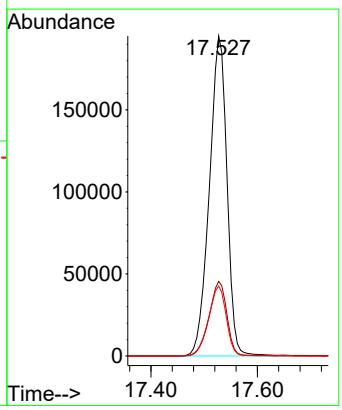




#92
Benzo(g,h,i)perylene
Concen: 37.584 ng
RT: 17.527 min Scan# 2607
Delta R.T. -0.029 min
Lab File: BF142502.D
Acq: 22 May 2025 11:11

Tgt Ion:276 Resp: 447541

Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.2	28.8
138	21.9	16.8	25.2



Sample Results: **BF142502.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142502.D
Acq On : 22 May 2025 11:11
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: May 22 12:13:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00
2		1,4-Dioxane	0.475	0.470	1.1	102	0.00
3		Pyridine	1.210	1.196	1.2	101	0.00
4		n-Nitrosodimethylamine	0.628	0.629	-0.2	101	-0.02
5	S	2-Fluorophenol	1.187	1.158	2.4	102	0.00
6		Aniline	1.921	1.876	2.3	101	0.00
7	S	Phenol-d6	1.429	1.379	3.5	100	-0.01
8		2-Chlorophenol	1.293	1.264	2.2	100	0.00
9		Benzaldehyde	0.859	0.845	1.6	102	0.00
10	C	Phenol	1.608	1.566	2.6	101	-0.02
11		bis(2-Chloroethyl)ether	1.157	1.111	4.0	99	0.00
12		1,3-Dichlorobenzene	1.443	1.393	3.5	99	0.00
13	C	1,4-Dichlorobenzene	1.453	1.395	4.0	98	0.00
14		1,2-Dichlorobenzene	1.391	1.332	4.2	99	0.00
15		Benzyl Alcohol	1.056	1.024	3.0	99	-0.01
16		2,2'-oxybis(1-Chloropropane	1.944	1.852	4.7	98	0.00
17		2-Methylphenol	1.010	0.982	2.8	100	0.00
18		Hexachloroethane	0.507	0.483	4.7	98	0.00
19	P	n-Nitroso-di-n-propylamine	0.886	0.821	7.3	96	-0.02
20		3+4-Methylphenols	1.293	1.242	3.9	99	-0.01
21	I	Naphthalene-d8	1.000	1.000	0.0	99	0.00
22		Acetophenone	0.443	0.423	4.5	97	0.00
23	S	Nitrobenzene-d5	0.367	0.356	3.0	99	-0.01
24		Nitrobenzene	0.331	0.321	3.0	98	-0.01
25		Isophorone	0.613	0.568	7.3	95	-0.01
26	C	2-Nitrophenol	0.177	0.173	2.3	97	0.00
27		2,4-Dimethylphenol	0.312	0.302	3.2	99	-0.01
28		bis(2-Chloroethoxy)methane	0.383	0.360	6.0	98	-0.01
29	C	2,4-Dichlorophenol	0.283	0.276	2.5	99	0.00
30		1,2,4-Trichlorobenzene	0.308	0.295	4.2	99	0.00
31		Naphthalene	0.985	0.939	4.7	98	0.00
32		Benzoic acid	0.190	0.189	0.5	99	-0.04
33		4-Chloroaniline	0.399	0.383	4.0	97	0.00
34	C	Hexachlorobutadiene	0.192	0.181	5.7	95	0.00
35		Caprolactam	0.080	0.075	6.3	94	-0.03
36	C	4-Chloro-3-methylphenol	0.291	0.277	4.8	97	-0.01
37		2-Methylnaphthalene	0.620	0.578	6.8	97	0.00
38		1-Methylnaphthalene	0.641	0.601	6.2	96	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	96	0.00
40		1,2,4,5-Tetrachlorobenzene	0.574	0.562	2.1	97	0.00
41	P	Hexachlorocyclopentadiene	0.387	0.382	1.3	93	0.00
42	S	2,4,6-Tribromophenol	0.222	0.208	6.3	94	-0.01
43	C	2,4,6-Trichlorophenol	0.387	0.383	1.0	99	0.00
44		2,4,5-Trichlorophenol	0.408	0.386	5.4	93	0.00
45	S	2-Fluorobiphenyl	1.490	1.389	6.8	96	-0.01
46		1,1'-Biphenyl	1.552	1.481	4.6	96	-0.01
47		2-Chloronaphthalene	1.146	1.107	3.4	97	0.00

Sample Results: **BF142502.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142502.D
Acq On : 22 May 2025 11:11
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: May 22 12:13:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.331	0.322	2.7	95	-0.01
49		Acenaphthylene	1.936	1.864	3.7	96	0.00
50		Dimethylphthalate	1.320	1.214	8.0	92	-0.01
51		2,6-Dinitrotoluene	0.285	0.267	6.3	91	0.00
52	C	Acenaphthene	1.182	1.118	5.4	95	0.00
53		3-Nitroaniline	0.311	0.303	2.6	97	-0.01
54	P	2,4-Dinitrophenol	0.147	0.138	6.1	88	-0.01
55		Dibenzofuran	1.701	1.610	5.3	96	0.00
56	P	4-Nitrophenol	0.230	0.220	4.3	93	-0.01
57		2,4-Dinitrotoluene	0.372	0.356	4.3	94	-0.01
58		Fluorene	1.314	1.233	6.2	96	-0.01
59		2,3,4,6-Tetrachlorophenol	0.341	0.325	4.7	93	0.00
60		Diethylphthalate	1.289	1.147	11.0	89	-0.01
61		4-Chlorophenyl-phenylether	0.646	0.596	7.7	94	0.00
62		4-Nitroaniline	0.282	0.266	5.7	92	-0.02
63		Azobenzene	1.158	1.068	7.8	92	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	92	0.00
65		4,6-Dinitro-2-methylphenol	0.112	0.111	0.9	89	-0.01
66	c	n-Nitrosodiphenylamine	0.684	0.661	3.4	94	0.00
67		4-Bromophenyl-phenylether	0.236	0.224	5.1	92	0.00
68		Hexachlorobenzene	0.262	0.251	4.2	92	-0.01
69		Atrazine	0.182	0.157	13.7	81	0.00
70	C	Pentachlorophenol	0.148	0.146	1.4	91	0.00
71		Phenanthrene	1.069	1.009	5.6	92	0.00
72		Anthracene	1.091	1.031	5.5	91	0.00
73		Carbazole	0.933	0.863	7.5	89	0.00
74		Di-n-butylphthalate	1.021	0.823	19.4	77	0.00
75	C	Fluoranthene	0.999	0.878	12.1	86	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	93	0.00
77		Benzidine	0.744	0.748	-0.5	88	0.00
78		Pyrene	1.866	1.705	8.6	86	0.00
79	S	Terphenyl-d14	1.464	1.259	14.0	83	0.00
80		Butylbenzylphthalate	0.516	0.496	3.9	88	0.00
81		Benzo(a)anthracene	1.336	1.258	5.8	92	0.00
82		3,3'-Dichlorobenzidine	0.405	0.443	-9.4	102	0.00
83		Chrysene	1.200	1.136	5.3	93	-0.01
84		Bis(2-ethylhexyl)phthalate	0.660	0.801	-21.4	111	0.00
85	c	Di-n-octyl phthalate	1.290	1.410	-9.3	104	-0.01
86	I	Perylene-d12	1.000	1.000	0.0	103	-0.01
87		Indeno(1,2,3-cd)pyrene	1.501	1.416	5.7	101	-0.02
88		Benzo(b)fluoranthene	1.184	1.087	8.2	100	0.00
89		Benzo(k)fluoranthene	1.109	1.044	5.9	103	-0.01
90	C	Benzo(a)pyrene	1.116	1.078	3.4	103	-0.01
91		Dibenzo(a,h)anthracene	1.218	1.143	6.2	100	-0.02
92		Benzo(g,h,i)perylene	1.218	1.144	6.1	100	-0.03

Sample Results: **BF142502.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142502.D
Acq On : 22 May 2025 11:11
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: May 22 12:13:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **BF142502.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142502.D
Acq On : 22 May 2025 11:11
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: May 22 12:13:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	99	0.00
2		1,4-Dioxane	40.000	39.535	1.2	102	0.00
3		Pyridine	40.000	39.534	1.2	101	0.00
4		n-Nitrosodimethylamine	40.000	40.084	-0.2	101	-0.02
5	S	2-Fluorophenol	80.000	78.010	2.5	102	0.00
6		Aniline	40.000	39.064	2.3	101	0.00
7	S	Phenol-d6	80.000	77.184	3.5	100	-0.01
8		2-Chlorophenol	40.000	39.108	2.2	100	0.00
9		Benzaldehyde	40.000	39.334	1.7	102	0.00
10	C	Phenol	40.000	38.958	2.6	101	-0.02
11		bis(2-Chloroethyl)ether	40.000	38.397	4.0	99	0.00
12		1,3-Dichlorobenzene	40.000	38.613	3.5	99	0.00
13	C	1,4-Dichlorobenzene	40.000	38.388	4.0	98	0.00
14		1,2-Dichlorobenzene	40.000	38.302	4.2	99	0.00
15		Benzyl Alcohol	40.000	38.771	3.1	99	-0.01
16		2,2'-oxybis(1-Chloropropane	40.000	38.111	4.7	98	0.00
17		2-Methylphenol	40.000	38.917	2.7	100	0.00
18		Hexachloroethane	40.000	38.072	4.8	98	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	37.081	7.3	96	-0.02
20		3+4-Methylphenols	40.000	38.429	3.9	99	-0.01
21	I	Naphthalene-d8	20.000	20.000	0.0	99	0.00
22		Acetophenone	40.000	38.192	4.5	97	0.00
23	S	Nitrobenzene-d5	80.000	77.570	3.0	99	-0.01
24		Nitrobenzene	40.000	38.825	2.9	98	-0.01
25		Isophorone	40.000	37.062	7.3	95	-0.01
26	C	2-Nitrophenol	40.000	39.135	2.2	97	0.00
27		2,4-Dimethylphenol	40.000	38.788	3.0	99	-0.01
28		bis(2-Chloroethoxy)methane	40.000	37.553	6.1	98	-0.01
29	C	2,4-Dichlorophenol	40.000	38.961	2.6	99	0.00
30		1,2,4-Trichlorobenzene	40.000	38.377	4.1	99	0.00
31		Naphthalene	40.000	38.121	4.7	98	0.00
32		Benzoic acid	40.000	39.792	0.5	99	-0.04
33		4-Chloroaniline	40.000	38.411	4.0	97	0.00
34	C	Hexachlorobutadiene	40.000	37.650	5.9	95	0.00
35		Caprolactam	40.000	37.492	6.3	94	-0.03
36	C	4-Chloro-3-methylphenol	40.000	38.135	4.7	97	-0.01
37		2-Methylnaphthalene	40.000	37.285	6.8	97	0.00
38		1-Methylnaphthalene	40.000	37.517	6.2	96	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	96	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	39.153	2.1	97	0.00
41	P	Hexachlorocyclopentadiene	40.000	39.409	1.5	93	0.00
42	S	2,4,6-Tribromophenol	80.000	74.998	6.3	94	-0.01
43	C	2,4,6-Trichlorophenol	40.000	39.540	1.2	99	0.00
44		2,4,5-Trichlorophenol	40.000	37.777	5.6	93	0.00
45	S	2-Fluorobiphenyl	80.000	74.571	6.8	96	-0.01
46		1,1'-Biphenyl	40.000	38.167	4.6	96	-0.01
47		2-Chloronaphthalene	40.000	38.623	3.4	97	0.00

Sample Results: **BF142502.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142502.D
Acq On : 22 May 2025 11:11
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: May 22 12:13:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	38.921	2.7	95	-0.01
49		Acenaphthylene	40.000	38.516	3.7	96	0.00
50		Dimethylphthalate	40.000	36.782	8.0	92	-0.01
51		2,6-Dinitrotoluene	40.000	37.548	6.1	91	0.00
52	C	Acenaphthene	40.000	37.846	5.4	95	0.00
53		3-Nitroaniline	40.000	38.933	2.7	97	-0.01
54	P	2,4-Dinitrophenol	40.000	37.458	6.4	88	-0.01
55		Dibenzofuran	40.000	37.851	5.4	96	0.00
56	P	4-Nitrophenol	40.000	38.423	3.9	93	-0.01
57		2,4-Dinitrotoluene	40.000	38.274	4.3	94	-0.01
58		Fluorene	40.000	37.519	6.2	96	-0.01
59		2,3,4,6-Tetrachlorophenol	40.000	38.106	4.7	93	0.00
60		Diethylphthalate	40.000	35.612	11.0	89	-0.01
61		4-Chlorophenyl-phenylether	40.000	36.933	7.7	94	0.00
62		4-Nitroaniline	40.000	37.776	5.6	92	-0.02
63		Azobenzene	40.000	36.891	7.8	92	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	92	0.00
65		4,6-Dinitro-2-methylphenol	40.000	39.872	0.3	89	-0.01
66	c	n-Nitrosodiphenylamine	40.000	38.637	3.4	94	0.00
67		4-Bromophenyl-phenylether	40.000	37.808	5.5	92	0.00
68		Hexachlorobenzene	40.000	38.456	3.9	92	-0.01
69		Atrazine	40.000	34.563	13.6	81	0.00
70	C	Pentachlorophenol	40.000	39.493	1.3	91	0.00
71		Phenanthrene	40.000	37.751	5.6	92	0.00
72		Anthracene	40.000	37.800	5.5	91	0.00
73		Carbazole	40.000	37.019	7.5	89	0.00
74		Di-n-butylphthalate	40.000	32.244	19.4	77	0.00
75	C	Fluoranthene	40.000	35.154	12.1	86	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	93	0.00
77		Benzidine	40.000	40.217	-0.5	88	0.00
78		Pyrene	40.000	36.548	8.6	86	0.00
79	S	Terphenyl-d14	80.000	68.835	14.0	83	0.00
80		Butylbenzylphthalate	40.000	38.513	3.7	88	0.00
81		Benzo(a)anthracene	40.000	37.692	5.8	92	0.00
82		3,3'-Dichlorobenzidine	40.000	43.748	-9.4	102	0.00
83		Chrysene	40.000	37.865	5.3	93	-0.01
84		Bis(2-ethylhexyl)phthalate	40.000	48.560	-21.4	111	0.00
85	c	Di-n-octyl phthalate	40.000	43.705	-9.3	104	-0.01
86	I	Perylene-d12	20.000	20.000	0.0	103	-0.01
87		Indeno(1,2,3-cd)pyrene	40.000	37.736	5.7	101	-0.02
88		Benzo(b)fluoranthene	40.000	36.747	8.1	100	0.00
89		Benzo(k)fluoranthene	40.000	37.669	5.8	103	-0.01
90	C	Benzo(a)pyrene	40.000	38.641	3.4	103	-0.01
91		Dibenzo(a,h)anthracene	40.000	37.559	6.1	100	-0.02
92		Benzo(g,h,i)perylene	40.000	37.584	6.0	100	-0.03

Sample Results: **BF142502.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142502.D
Acq On : 22 May 2025 11:11
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: May 22 12:13:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

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

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

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

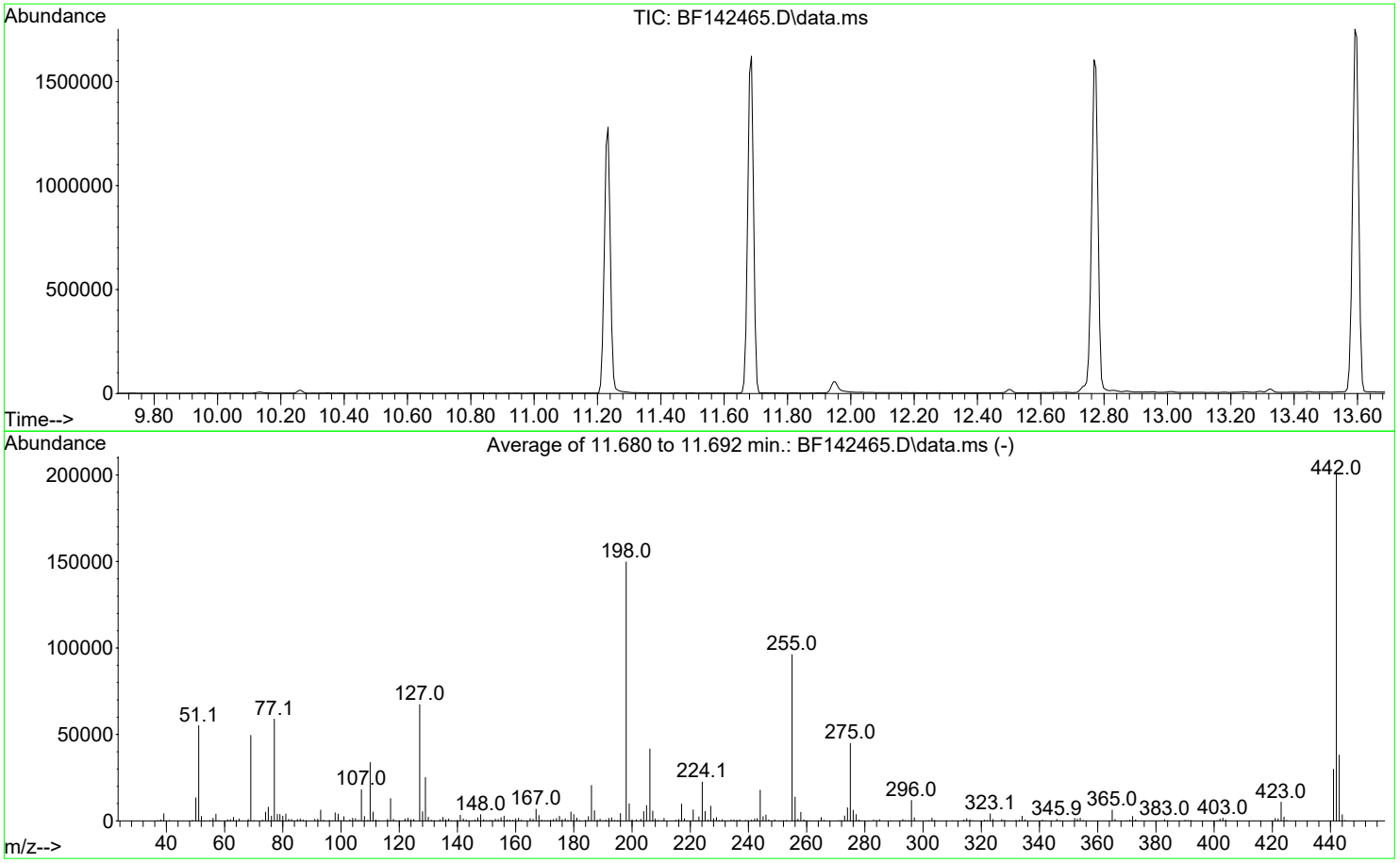
Sample Results: **BF142465.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142465.D
Acq On : 20 May 2025 11:13
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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue May 20 16:26:47 2025



AutoFind: Scans 1613, 1614, 1615; Background Corrected with Scan 1606

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.8	55035	PASS
68	69	0.00	2	1.9	918	PASS
69	198	0.00	100	33.1	49499	PASS
70	69	0.00	2	0.5	254	PASS
127	198	10	80	44.9	67277	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	149731	PASS
199	198	5	9	6.6	9853	PASS
275	198	10	60	29.9	44779	PASS
365	198	1	100	4.2	6269	PASS
441	198	0.01	100	19.9	29837	PASS
442	442	50	100	100.0	200661	PASS
443	442	15	24	19.0	38045	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
5/20/2025	BNA_F	BF142465.D
Compound Name	**Response**	**Retention Time**
DDT	467874	13.598
DDD	6363	13.327
DDE	709	12.957
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
7072	474946	1.49

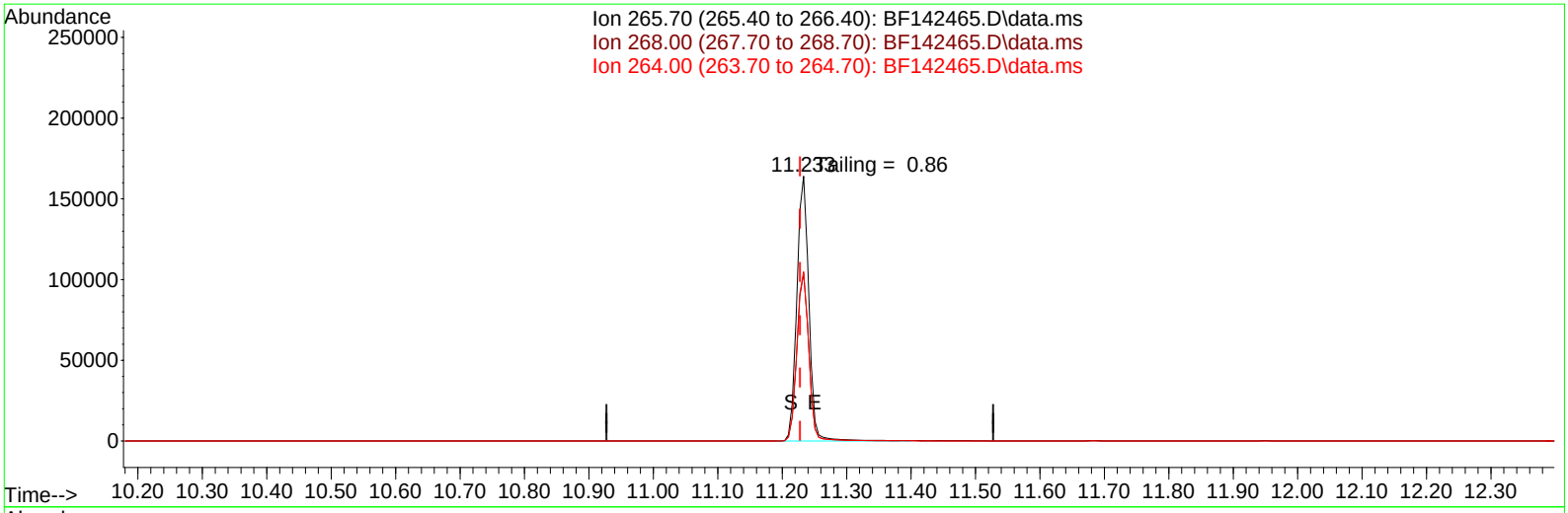
Instrument :
BNA_F
ClientSampleId :
DFTPP

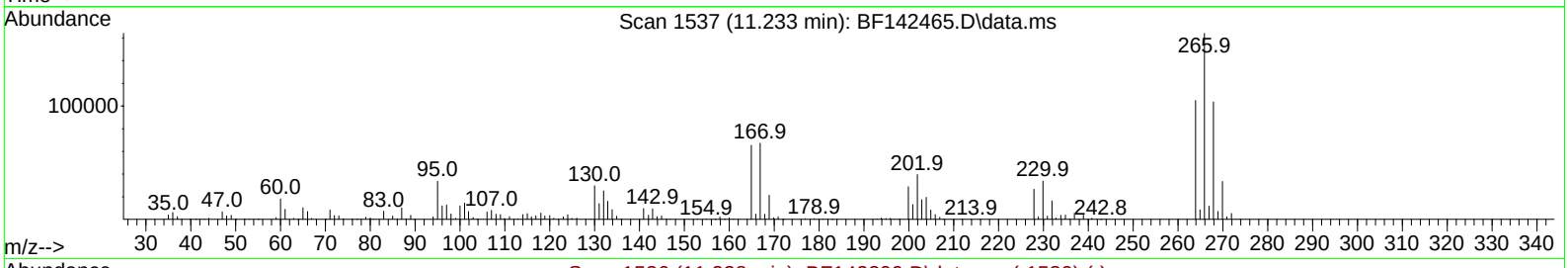
Sample Results: **BF142465.D**

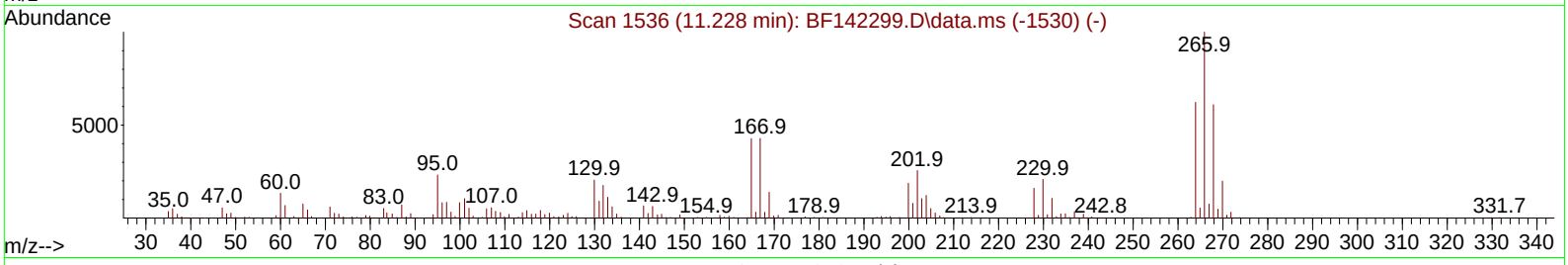
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142465.D
Acq On : 20 May 2025 11:13
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: May 20 14:09:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration







TIC: BF142465.D\data.ms

(70) Pentachlorophenol (C)

11.233min (+ 0.006) 45340.77 ng

response 213501

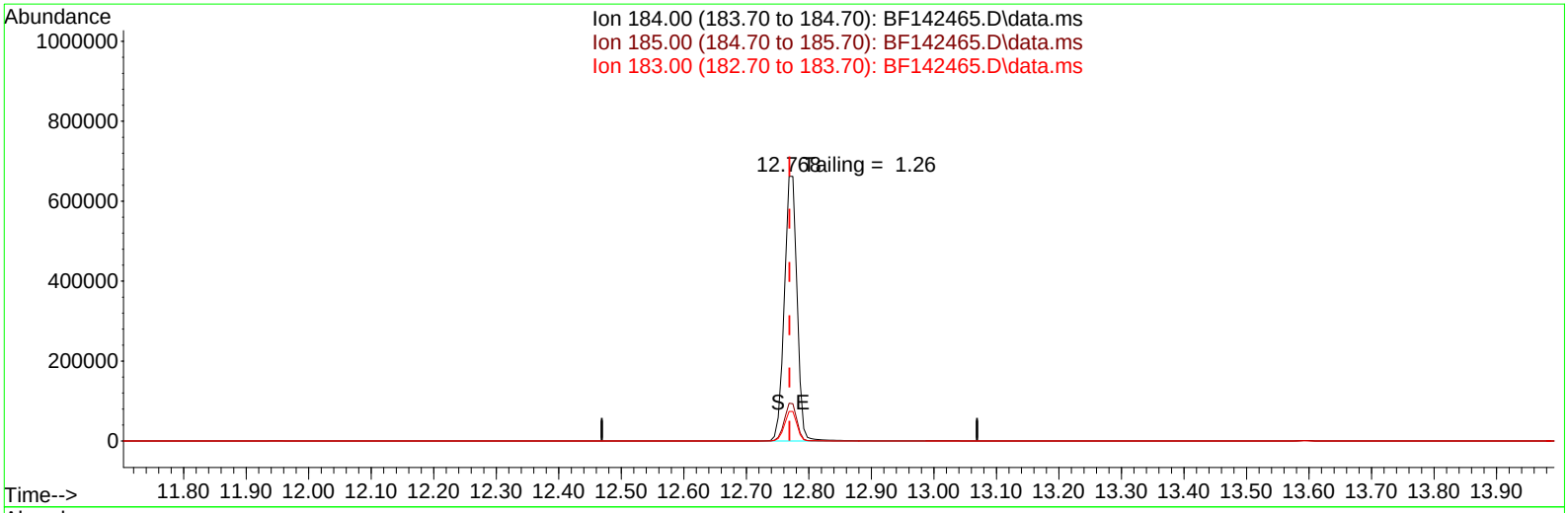
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	60.90	63.21
264.00	62.20	63.93
0.00	0.00	0.00

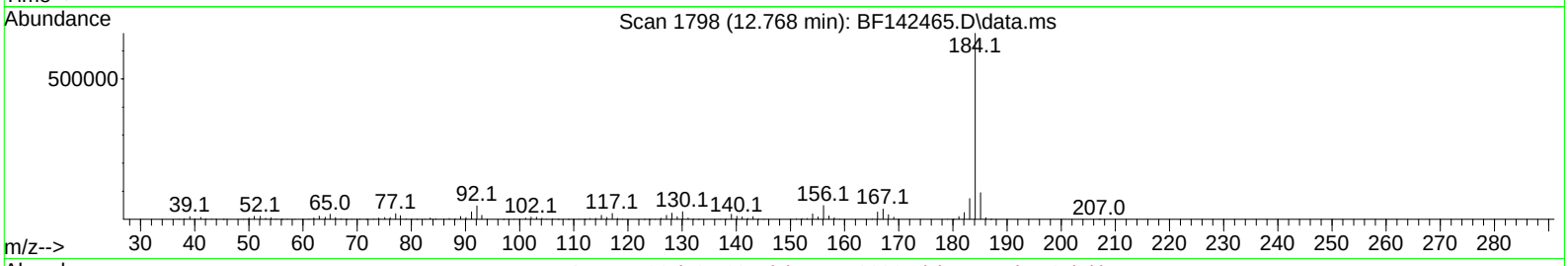
Sample Results: **BF142465.D**

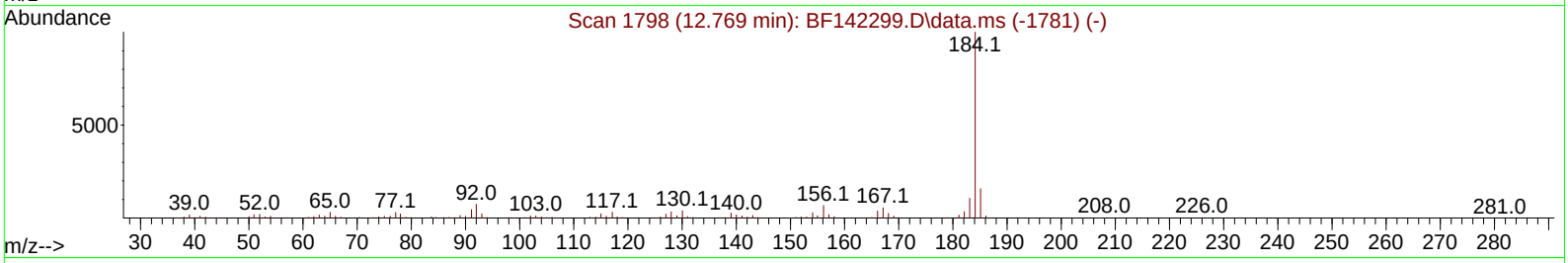
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052025\
Data File : BF142465.D
Acq On : 20 May 2025 11:13
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: May 20 14:09:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration







TIC: BF142465.D\data.ms

(77) Benzidine

12.768min (-0.001) 0.00 ng

response 942414

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.70	14.29
183.00	10.70	11.15
0.00	0.00	0.00

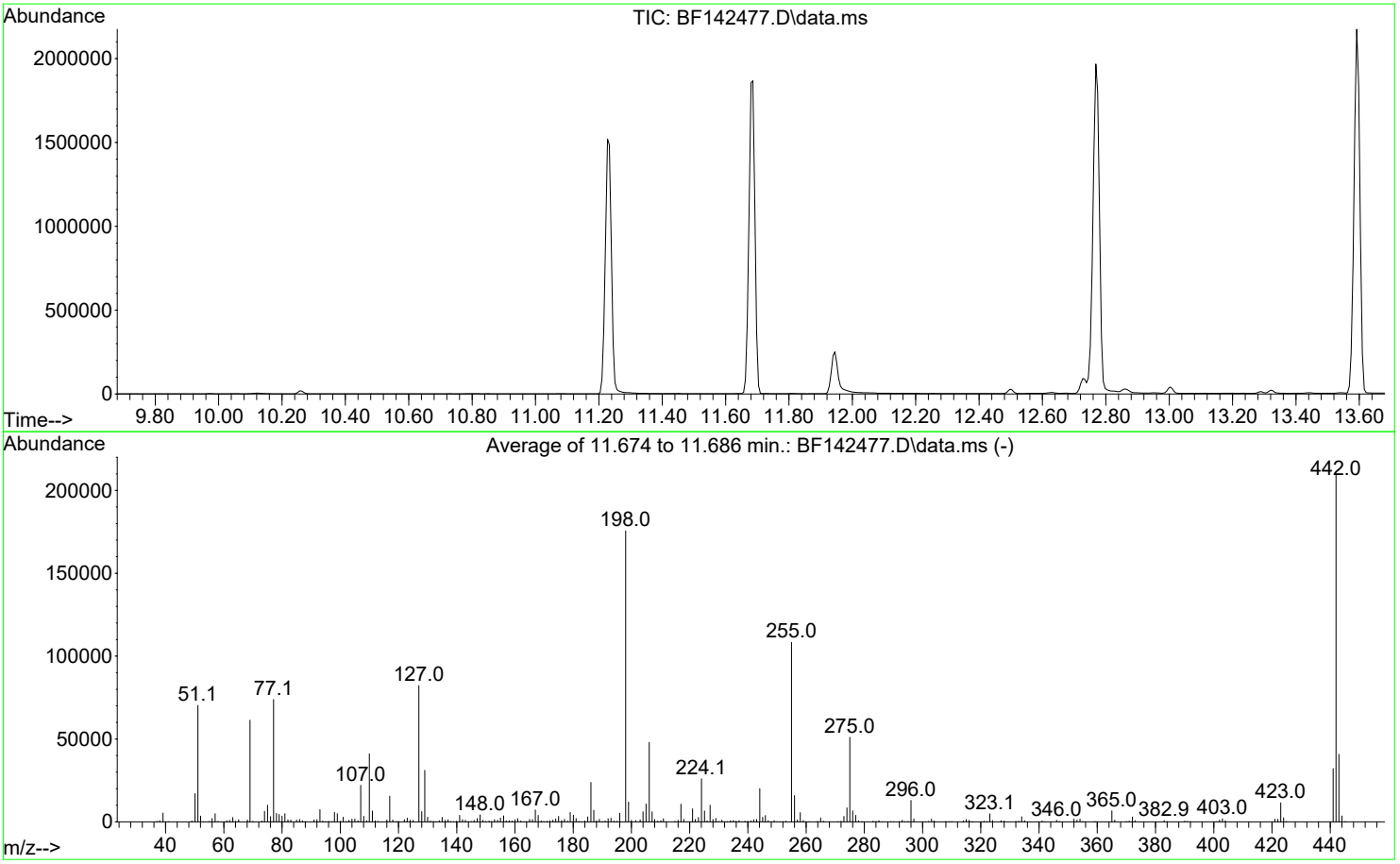
Sample Results: **BF142477.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142477.D
Acq On : 21 May 2025 09:41
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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue May 20 16:26:47 2025



AutoFind: Scans 1612, 1613, 1614; Background Corrected with Scan 1606

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.0	70269	PASS
68	69	0.00	2	2.0	1206	PASS
69	198	0.00	100	34.9	61363	PASS
70	69	0.00	2	0.7	407	PASS
127	198	10	80	46.9	82288	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	175605	PASS
199	198	5	9	6.8	11940	PASS
275	198	10	60	29.1	51059	PASS
365	198	1	100	3.8	6708	PASS
441	198	0.01	100	18.3	32112	PASS
442	442	50	100	100.0	209616	PASS
443	442	15	24	19.4	40765	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
5/21/2025	BNA_F	BF142477.D
Compound Name	**Response**	**Retention Time**
DDT	567831	13.592
DDD	8926	13.321
DDE	878	12.957
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
9804	577635	1.70

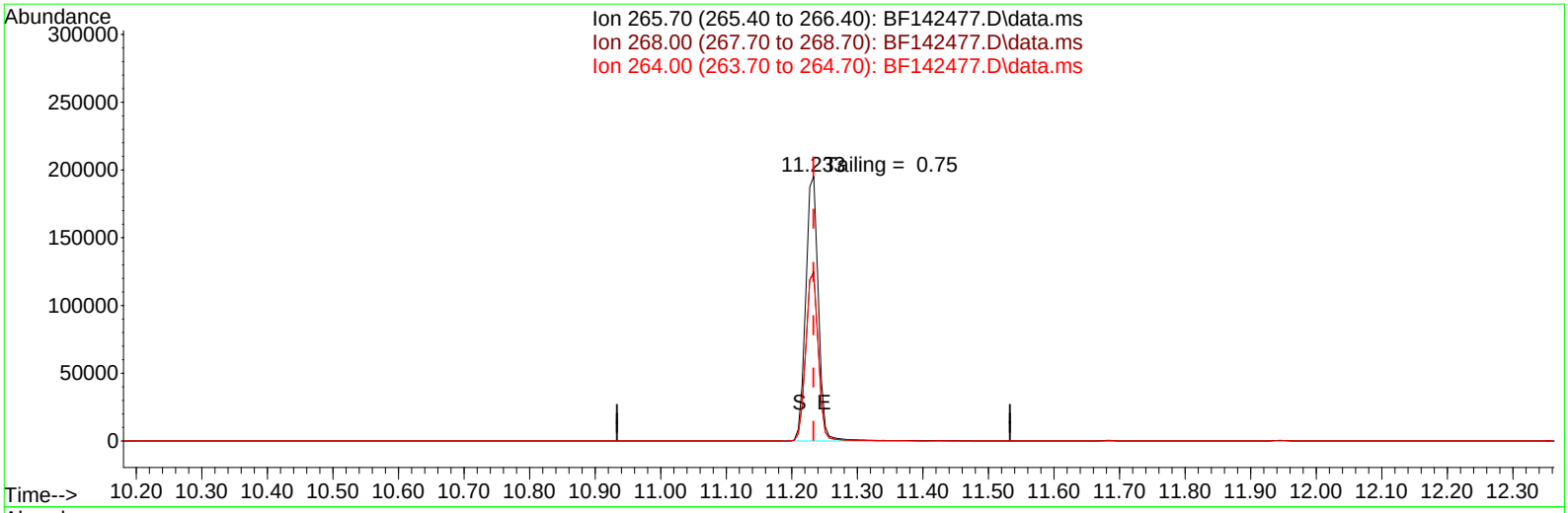
Instrument :
BNA_F
ClientSampleId :
DFTPP

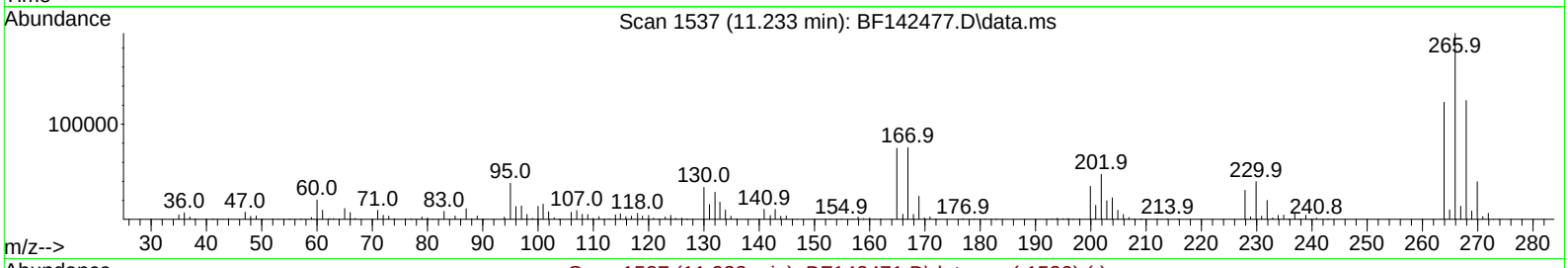
Sample Results: **BF142477.D**

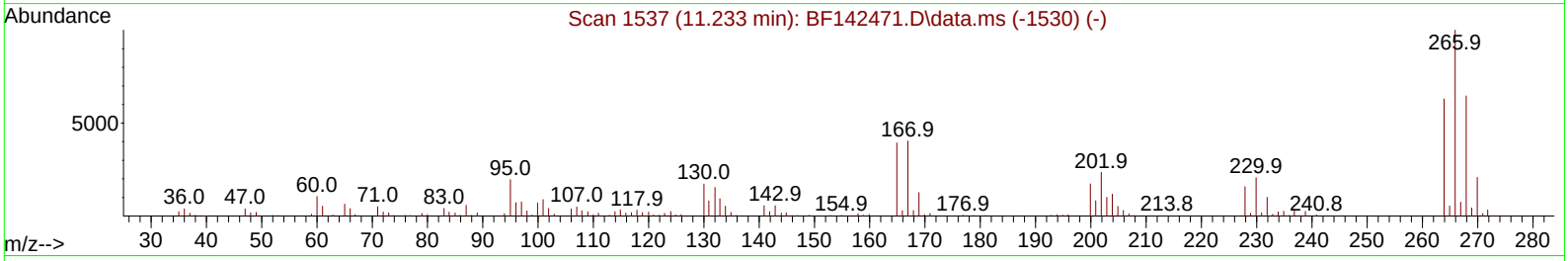
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142477.D
Acq On : 21 May 2025 09:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: May 21 11:31:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration







TIC: BF142477.D\data.ms

(70) Pentachlorophenol (C)

11.233min (+ 0.000) 40990.32 ng

response 263008

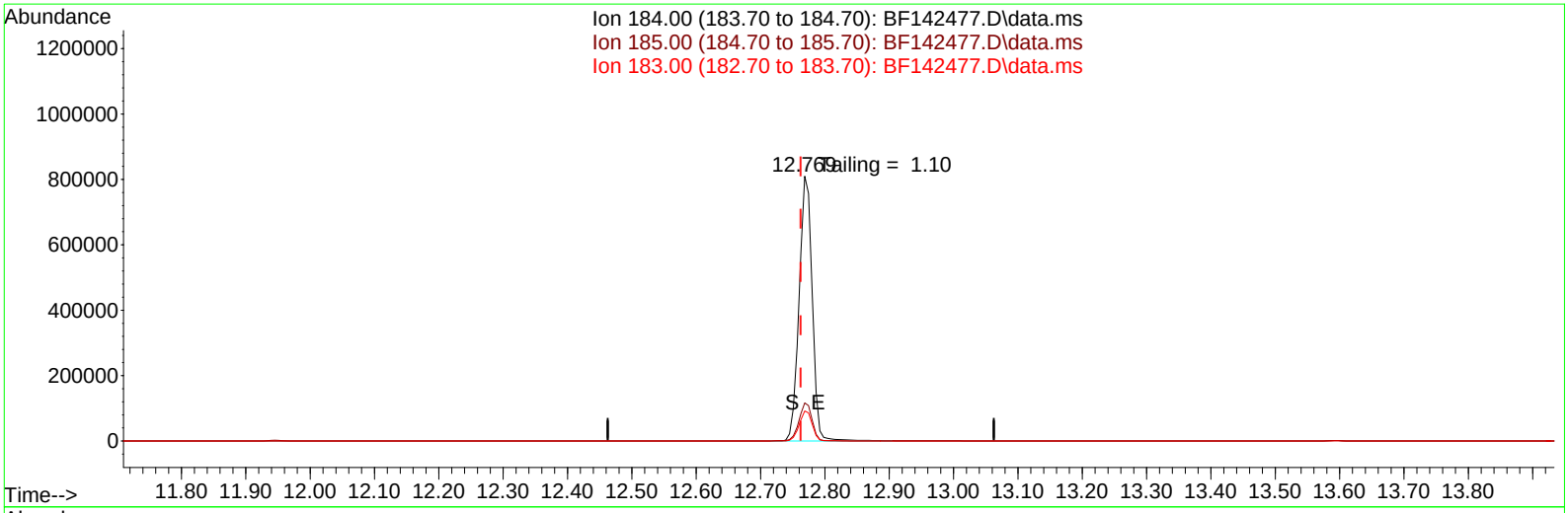
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	64.60	63.94
264.00	63.00	63.00
0.00	0.00	0.00

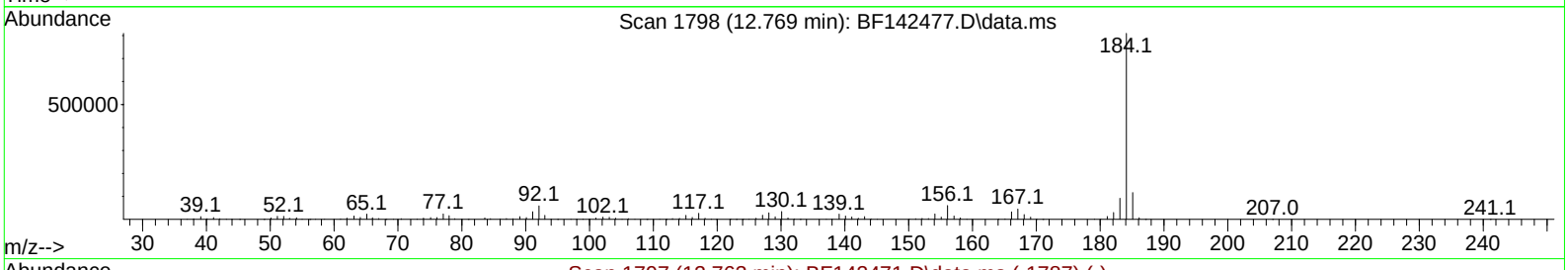
Sample Results: **BF142477.D**

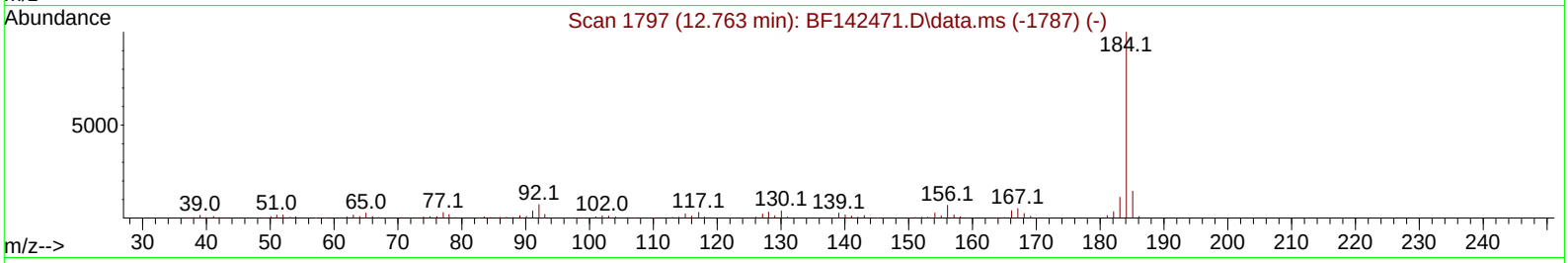
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142477.D
Acq On : 21 May 2025 09:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: May 21 11:31:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration







TIC: BF142477.D\data.ms

(77) Benzidine

12.769min (+ 0.006) 6765.19 ng

response 1148498

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.50	14.39
183.00	11.20	11.34
0.00	0.00	0.00

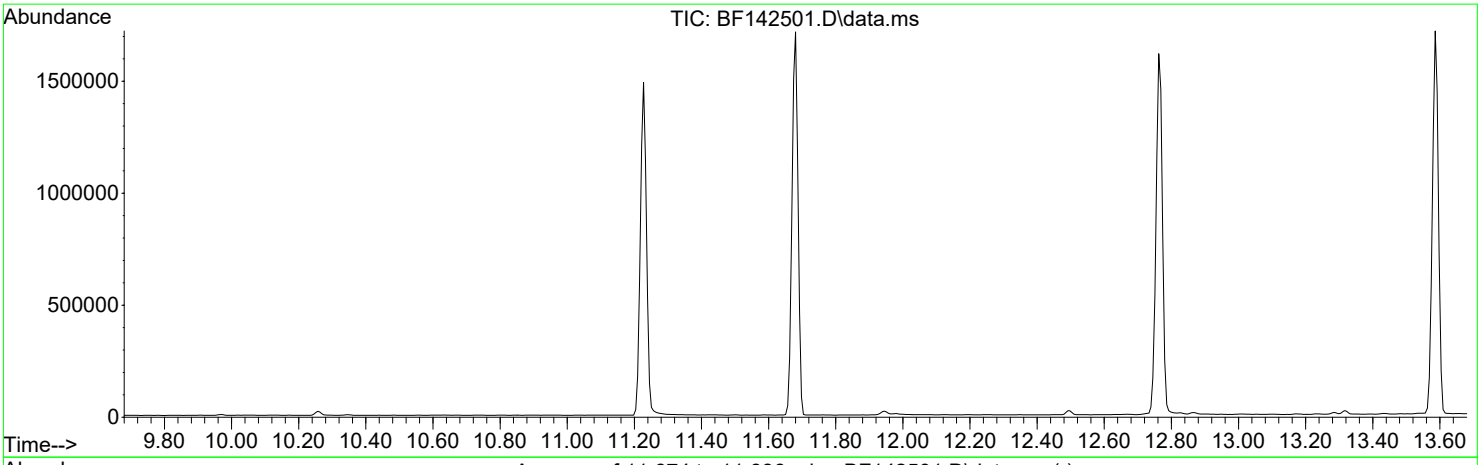
Sample Results: **BF142501.D**

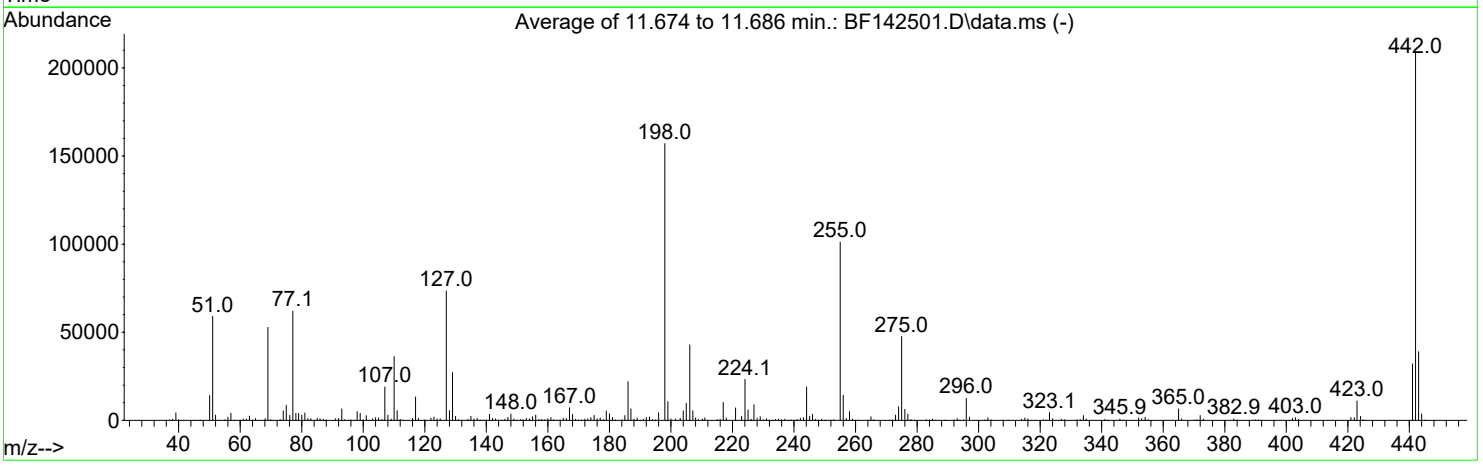
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142501.D
Acq On : 22 May 2025 10:43
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue May 20 16:26:47 2025





AutoFind: Scans 1612, 1613, 1614; Background Corrected with Scan 1605

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.5	58985	PASS
68	69	0.00	2	1.8	974	PASS
69	198	0.00	100	33.6	52773	PASS
70	69	0.00	2	0.6	339	PASS
127	198	10	80	46.8	73475	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	157088	PASS
199	198	5	9	6.8	10630	PASS
275	198	10	60	30.3	47603	PASS
365	198	1	100	4.1	6420	PASS
441	198	0.01	100	20.4	32069	PASS
442	442	50	100	100.0	208725	PASS
443	442	15	24	18.7	38941	PASS

DDT Breakdown

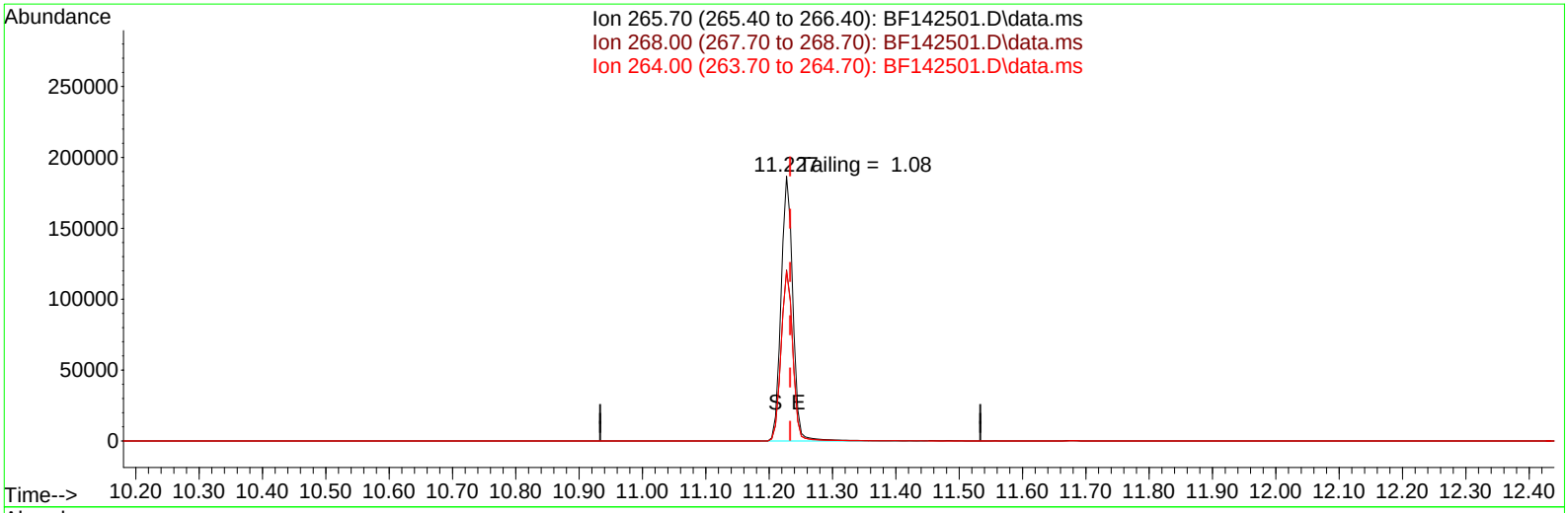
Date	Instrument Name	DFTPP Data File
5/22/2025	BNA_F	BF142501.D
Compound Name	**Response**	**Retention Time**
DDT	439631	13.586
DDD	7071	13.316
DDE	359	12.951
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
7430	447061	1.66

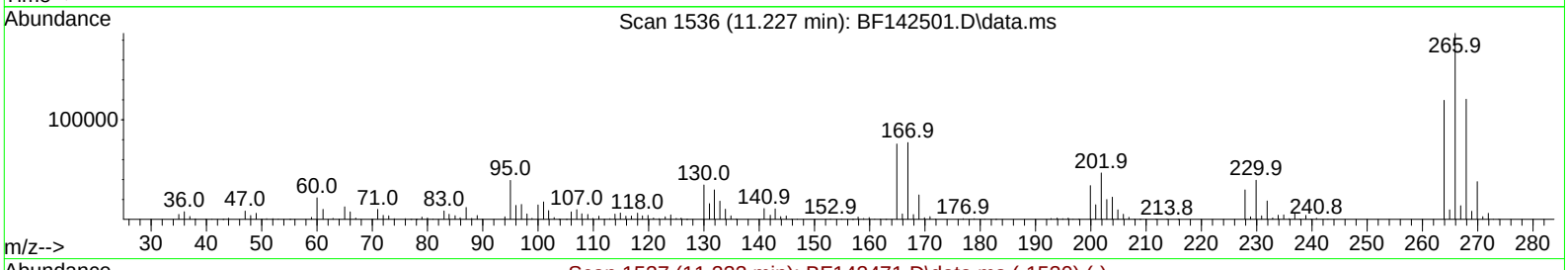
Instrument :
BNA_F
ClientSampleId :
DFTPP

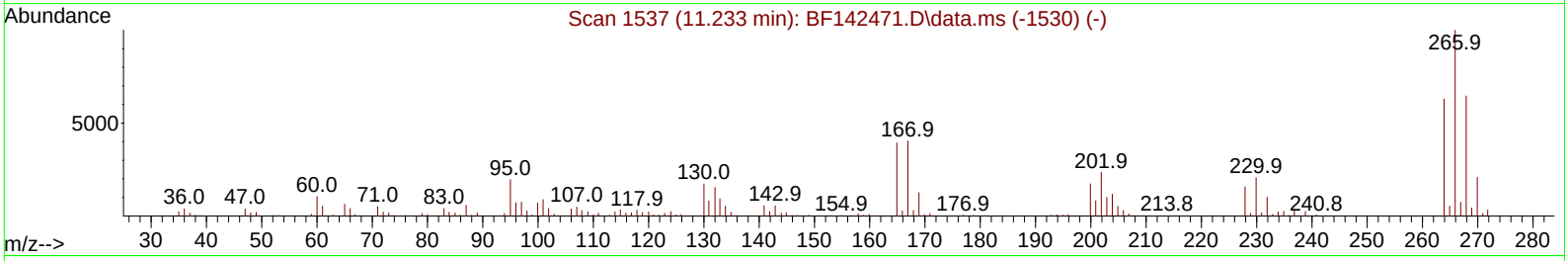
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142501.D
Acq On : 22 May 2025 10:43
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: May 22 12:24:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration







TIC: BF142501.D\data.ms

(70) Pentachlorophenol (C)

11.227min (-0.006) 79510.36 ng

response 243635

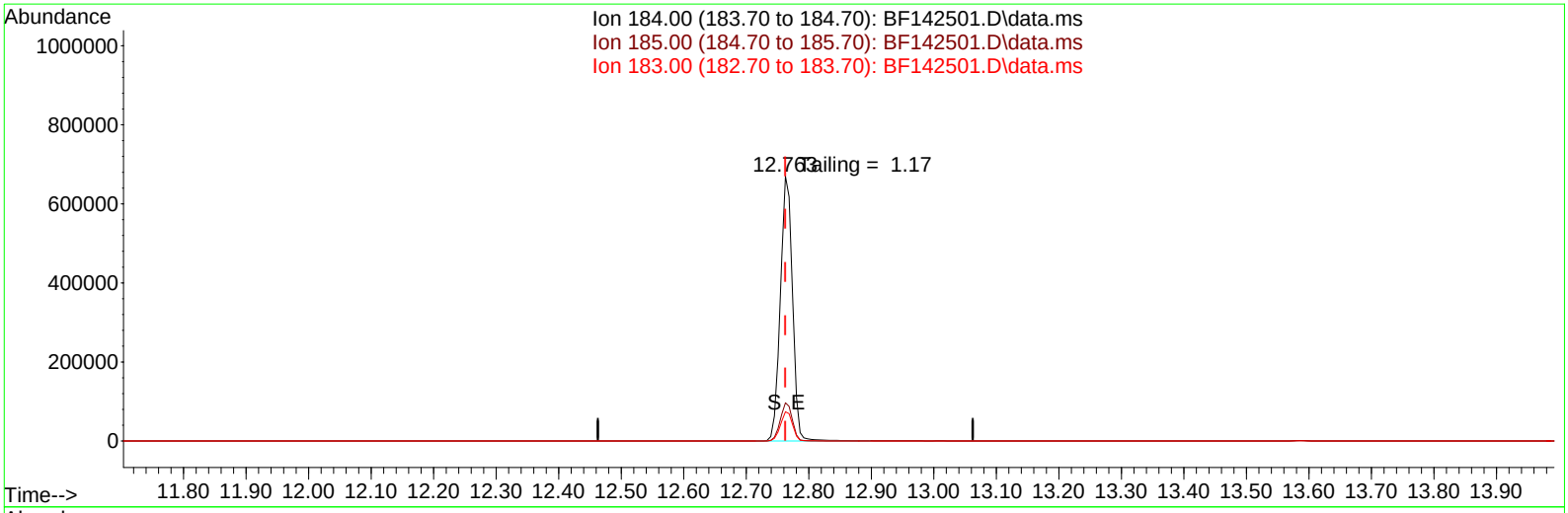
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	64.60	64.59
264.00	63.00	64.05
0.00	0.00	0.00

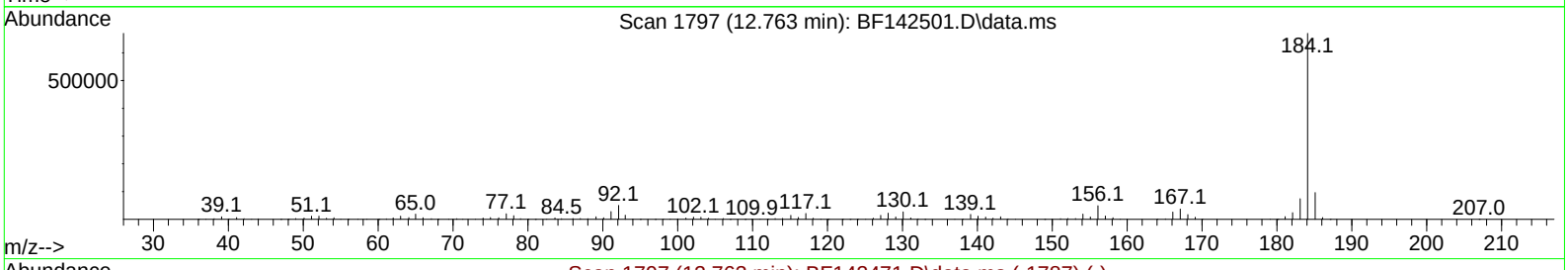
Sample Results: **BF142501.D**

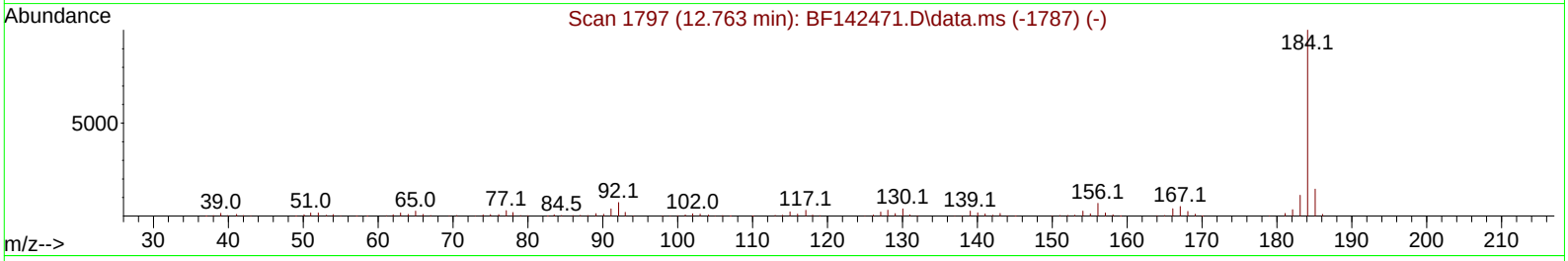
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142501.D
Acq On : 22 May 2025 10:43
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: May 22 12:24:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration







TIC: BF142501.D\data.ms

(77) Benzidine

12.763min (+ 0.000) 104325.96 ng

response 908454

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.50	14.43
183.00	11.20	11.07
0.00	0.00	0.00

Raw Data: **BF142479.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168083BL	SDG No.:	Q2074
Lab Sample ID:	PB168083BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142479.D	1	05/20/25 09:45	05/21/25 11:09	PB168083

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

Raw Data: **BF142479.D**

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

Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168083BL			SDG No.:	Q2074
Lab Sample ID:	PB168083BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142479.D	1	05/20/25 09:45	05/21/25 11:09	PB168083

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

Raw Data: **BF142479.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168083BL	SDG No.:	Q2074
Lab Sample ID:	PB168083BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142479.D	1	05/20/25 09:45	05/21/25 11:09	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	22.4	U	22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	29.5	U	29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	29.1	U	29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	27.4	U	27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	25.7	U	25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	25.6	U	25.6	170	ug/Kg
123-91-1	1,4-Dioxane	45.2	U	45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	27.4	U	27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	114		18 - 112	76%	SPK: 150
13127-88-3	Phenol-d6	111		15 - 107	74%	SPK: 150
4165-60-0	Nitrobenzene-d5	67.4		18 - 107	67%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.4		20 - 109	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	128		10 - 116	85%	SPK: 150
1718-51-0	Terphenyl-d14	62.4		10 - 105	62%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	127000	6.898			
1146-65-2	Naphthalene-d8	492000	8.181			
15067-26-2	Acenaphthene-d10	265000	9.939			
1517-22-2	Phenanthrene-d10	512000	11.428			
1719-03-5	Chrysene-d12	325000	14.069			
1520-96-3	Perylene-d12	235000	15.563			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	290	A		5.13	ug/Kg

Raw Data: **BF142479.D**

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

Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168083BL			SDG No.:	Q2074
Lab Sample ID:	PB168083BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142479.D	1	05/20/25 09:45	05/21/25 11:09	PB168083

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\BF052125\
Data File : BF142479.D
Acq On : 21 May 2025 11:09
Operator : RC/JU
Sample : PB168083BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Quant Time: May 21 12:03:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

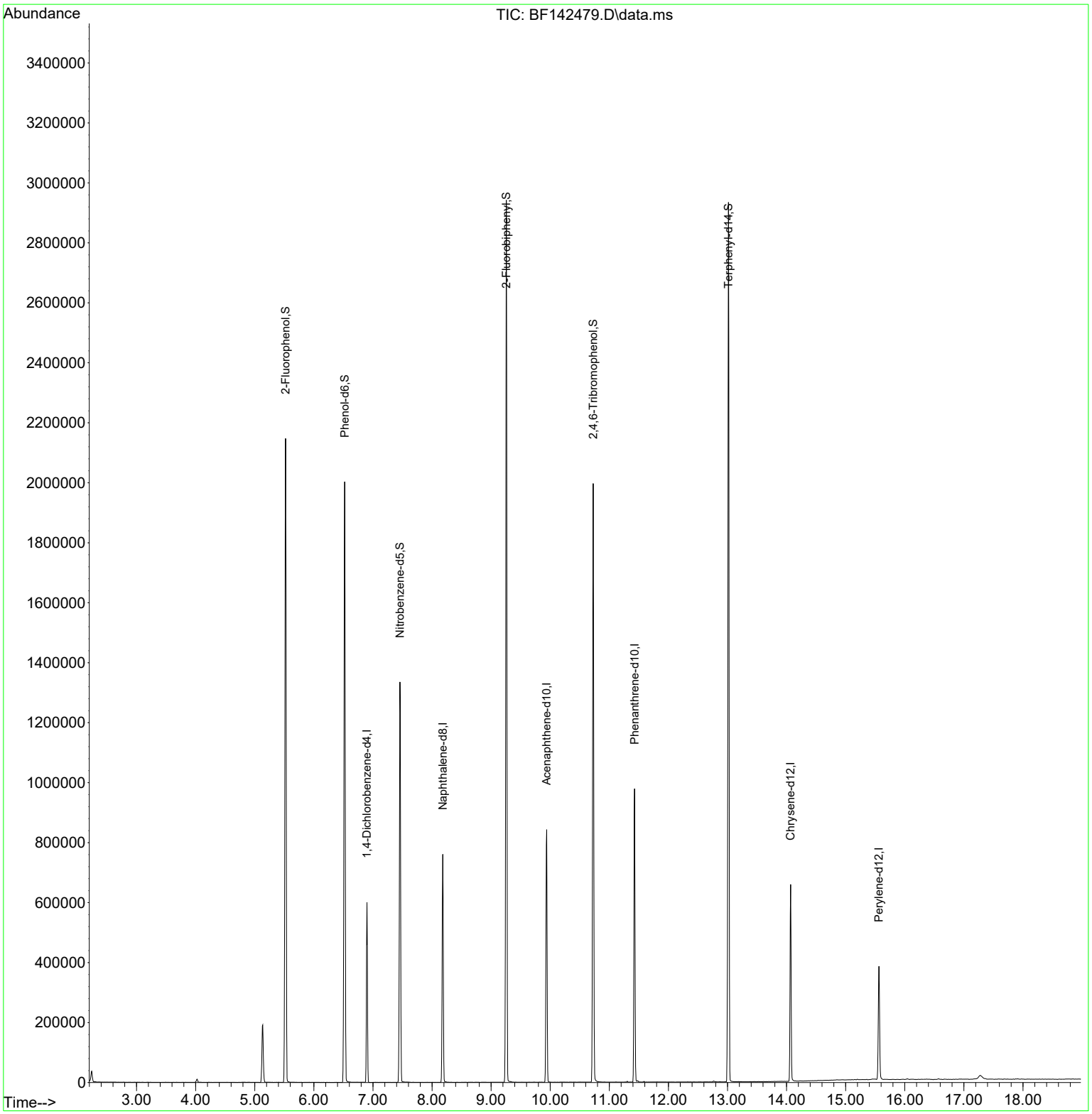
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	127003	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	492428	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	264579	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	511963	20.000	ng	0.00
76) Chrysene-d12	14.069	240	324877	20.000	ng	0.00
86) Perylene-d12	15.563	264	234653	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	856643	113.638	ng	0.00
7) Phenol-d6	6.522	99	1002883	110.518	ng	-0.01
23) Nitrobenzene-d5	7.457	82	608593	67.392	ng	-0.02
42) 2,4,6-Tribromophenol	10.728	330	374916	127.675	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	1368581	69.410	ng	-0.01
79) Terphenyl-d14	13.016	244	1483984	62.421	ng	0.00
Target Compounds						Qvalue

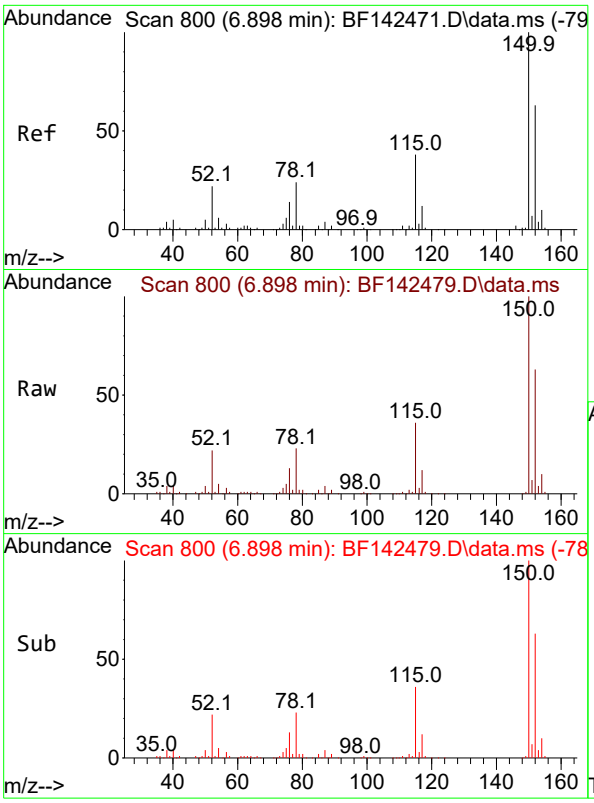
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142479.D
Acq On : 21 May 2025 11:09
Operator : RC/JU
Sample : PB168083BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Quant Time: May 21 12:03:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



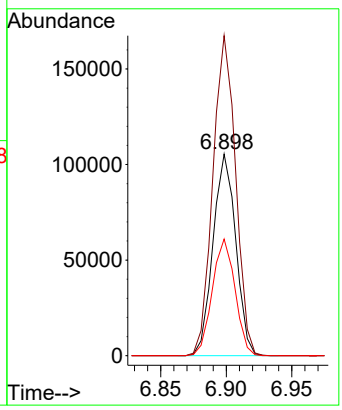


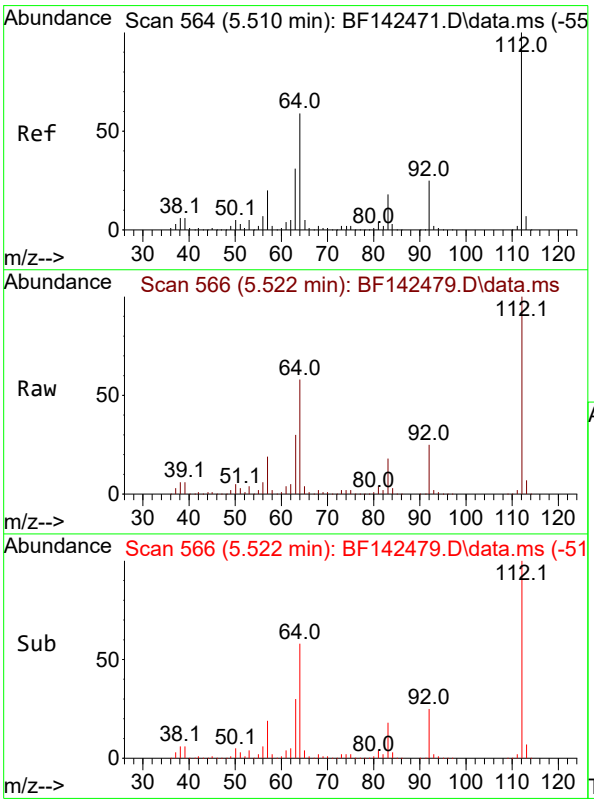
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Tgt Ion:152 Resp: 127003

Ion	Ratio	Lower	Upper
152	100		
150	158.7	128.2	192.4
115	57.8	48.3	72.5

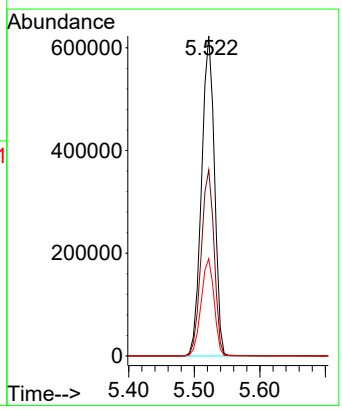


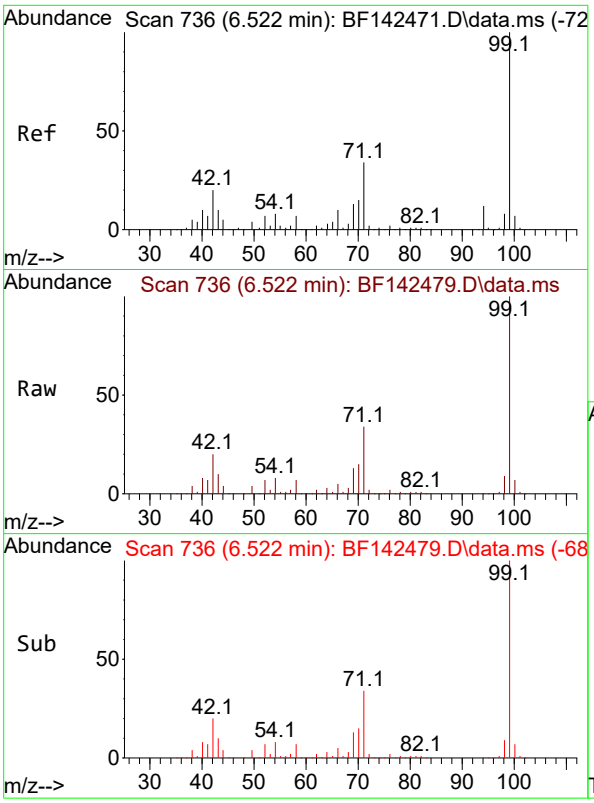


#5
2-Fluorophenol
Concen: 113.638 ng
RT: 5.522 min Scan# 566
Delta R.T. 0.006 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Tgt Ion:112 Resp: 856643

Ion	Ratio	Lower	Upper
112	100		
64	58.1	47.5	71.3
63	30.4	24.9	37.3



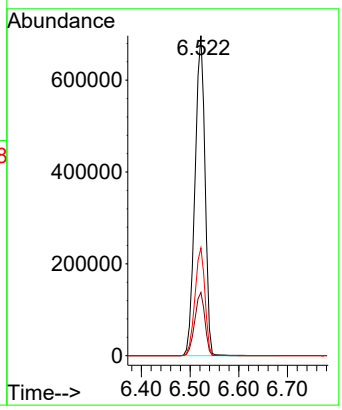


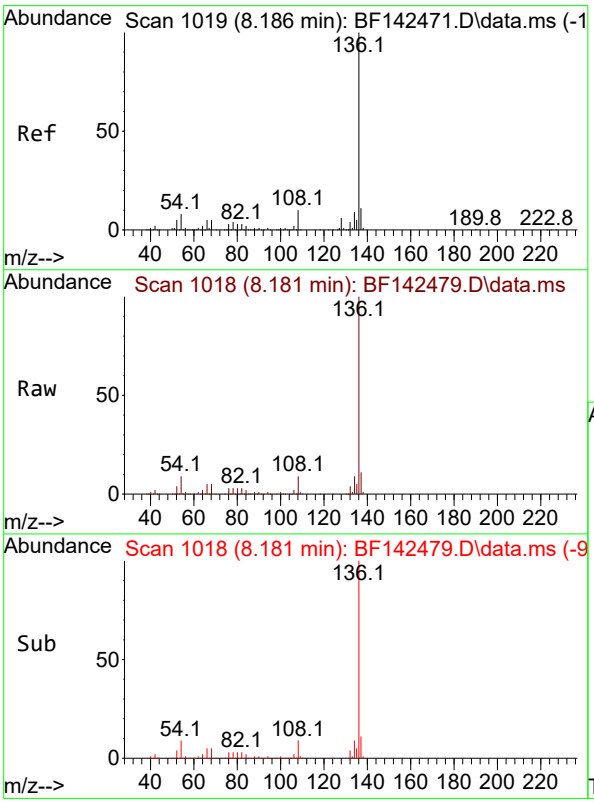
#7
Phenol-d6
Concen: 110.518 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Tgt Ion: 99 Resp: 1002883

Ion	Ratio	Lower	Upper
99	100		
42	19.8	16.2	24.2
71	33.7	27.3	40.9

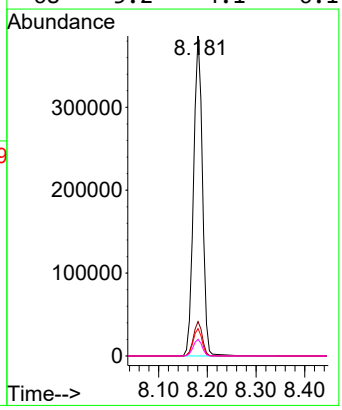


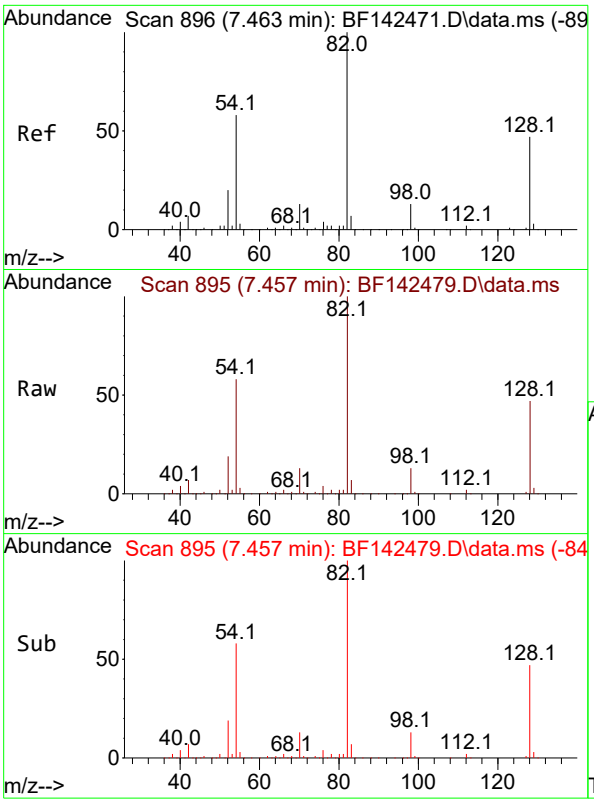


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Tgt Ion:136 Resp: 492428

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	8.5	6.6	10.0
68	5.2	4.1	6.1



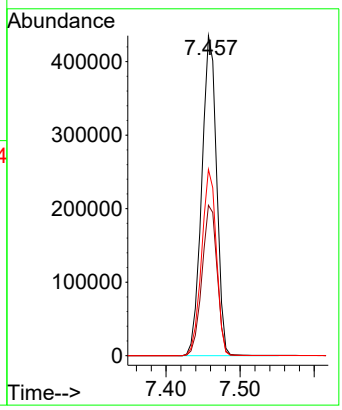


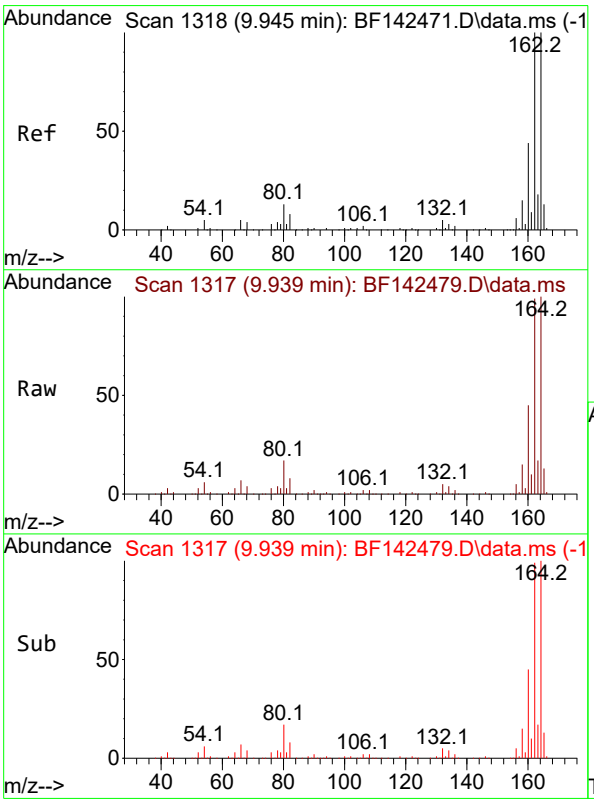
#23
Nitrobenzene-d5
Concen: 67.392 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Tgt Ion: 82 Resp: 608593

Ion	Ratio	Lower	Upper
82	100		
128	47.0	37.4	56.2
54	58.2	46.6	70.0

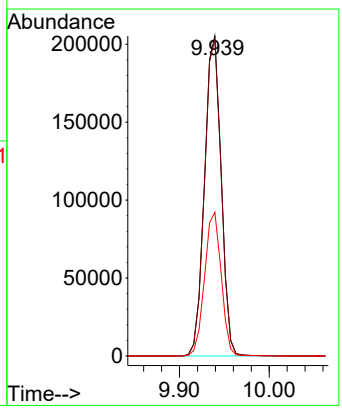


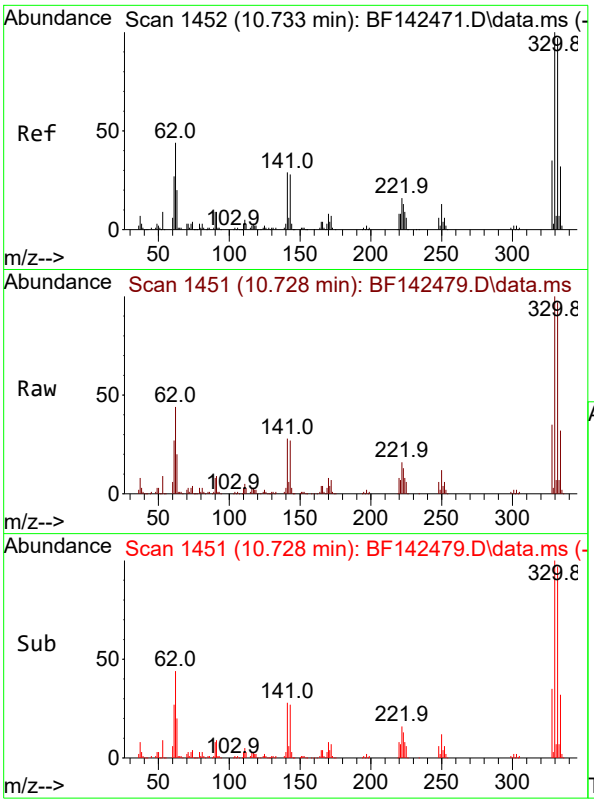


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Tgt Ion:164 Resp: 264579

Ion	Ratio	Lower	Upper
164	100		
162	98.9	80.2	120.4
160	44.9	35.6	53.4



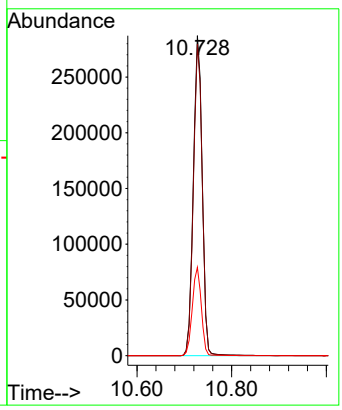


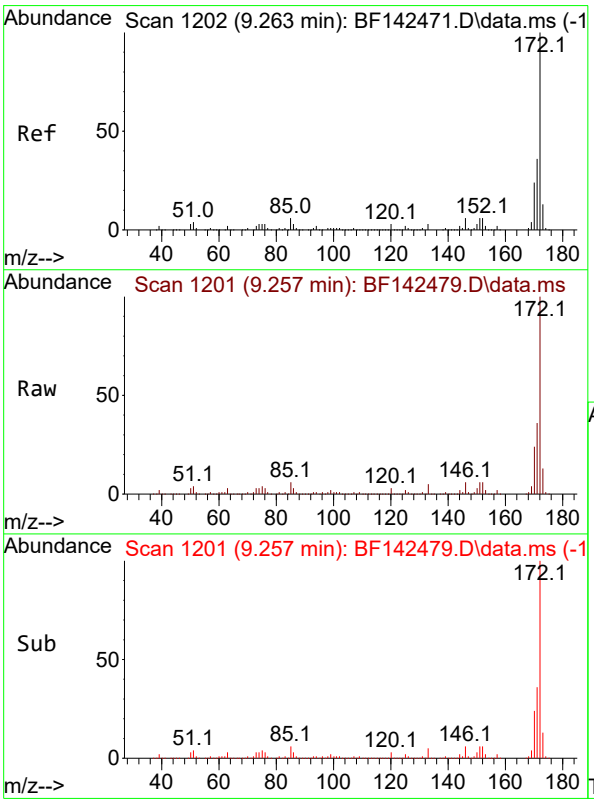
#42
2,4,6-Tribromophenol
Concen: 127.675 ng
RT: 10.728 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Tgt Ion:330 Resp: 374916

Ion	Ratio	Lower	Upper
330	100		
332	97.0	77.6	116.4
141	27.9	24.6	36.8

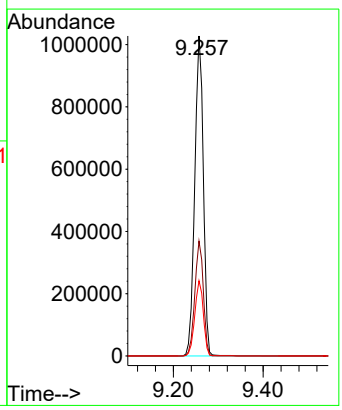


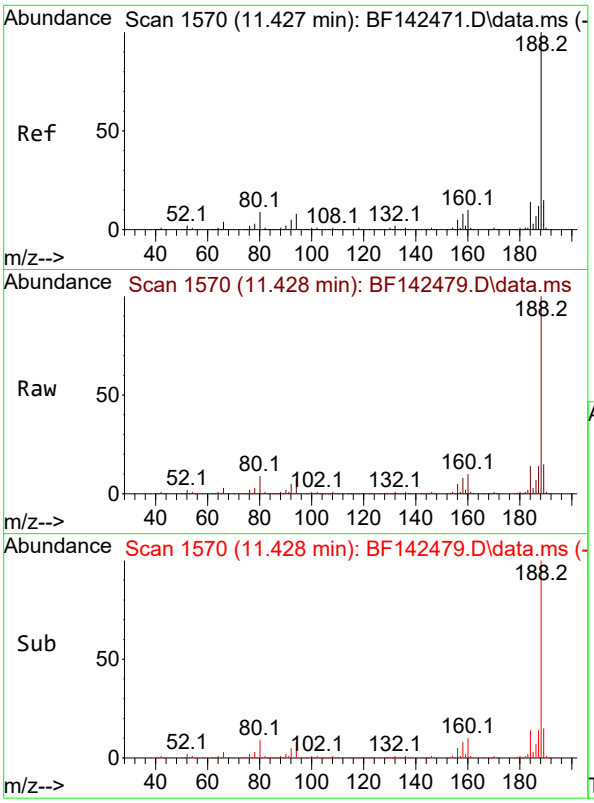


#45
2-Fluorobiphenyl
Concen: 69.410 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Tgt Ion:172 Resp: 1368581

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	42.8
170	23.5	18.9	28.3



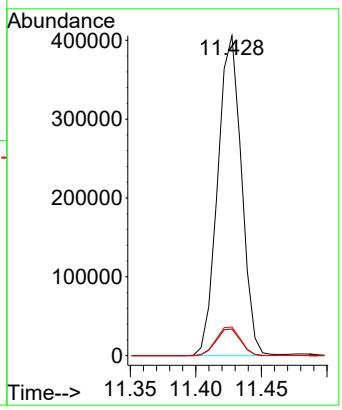


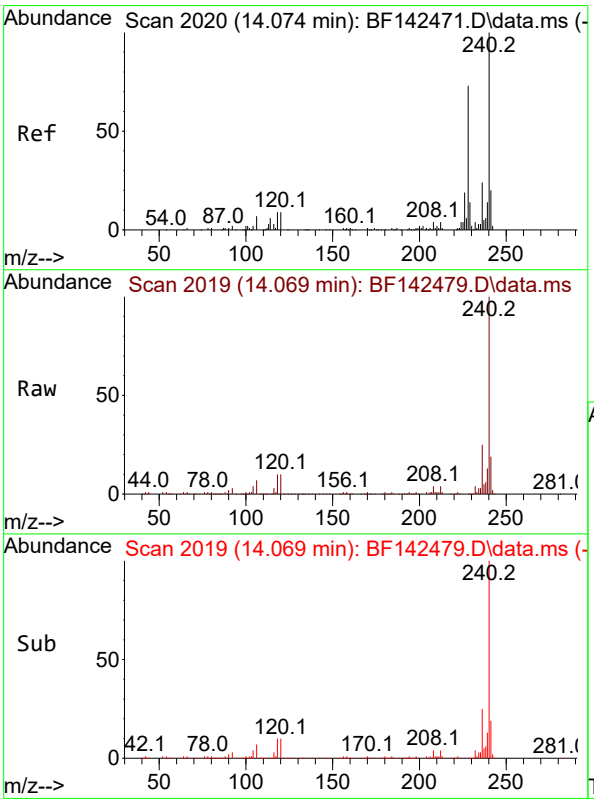
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Tgt Ion:188 Resp: 511963

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.6	10.0
80	8.9	7.4	11.0

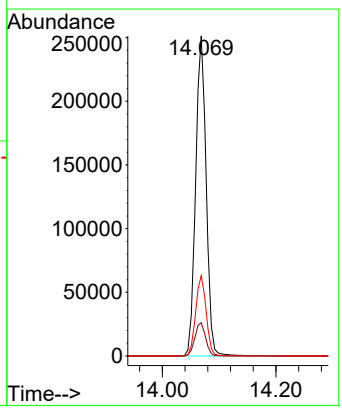


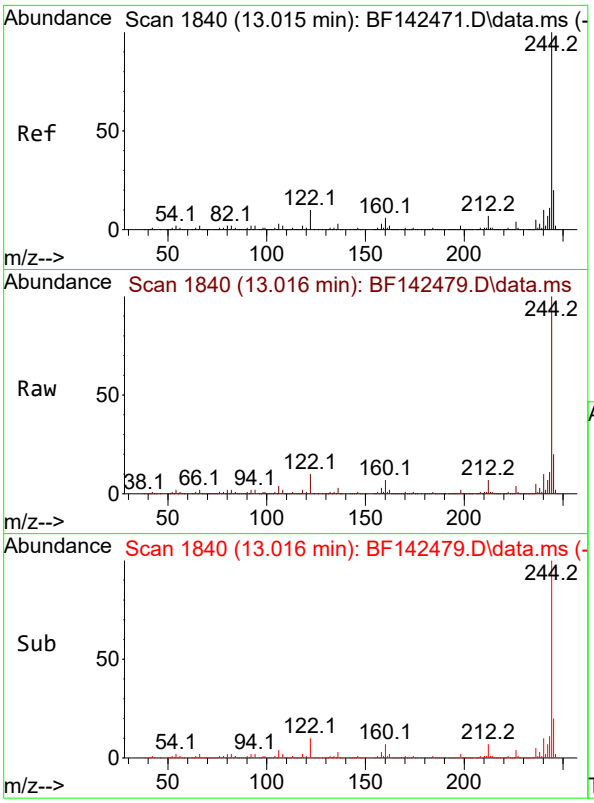


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Tgt Ion:240 Resp: 324877

Ion	Ratio	Lower	Upper
240	100		
120	10.4	7.5	11.3
236	25.1	19.6	29.4



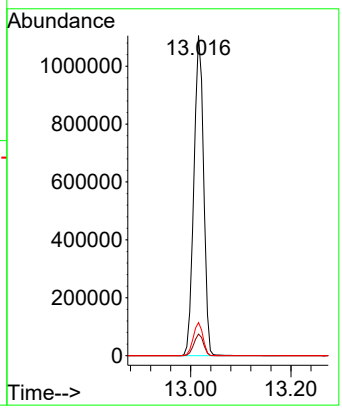


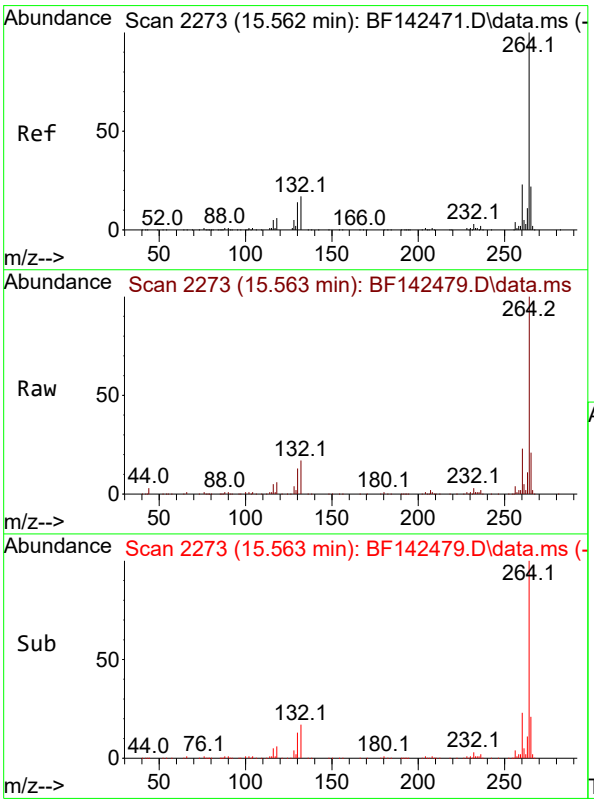
#79
Terphenyl-d14
Concen: 62.421 ng
RT: 13.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Tgt Ion:244 Resp: 1483984

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.3	7.9
122	10.3	8.2	12.2

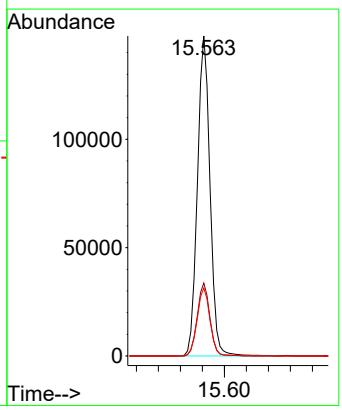




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Tgt Ion:264 Resp: 234653

Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.6	28.0
265	21.2	17.7	26.5



Sample Results: **BF142479.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142479.D
Acq On : 21 May 2025 11:09
Operator : RC/JU
Sample : PB168083BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BL

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142479.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.240	3	8	14	rVB	34723	57108	1.46%	0.239%
2	5.134	493	500	508	rBV	191407	311221	7.97%	1.304%
3	5.522	559	566	571	rBV	2146959	2947599	75.45%	12.347%
4	6.522	729	736	741	rBV	2003240	2877982	73.66%	12.055%
5	6.898	795	800	805	rBV	599855	720820	18.45%	3.019%
6	7.457	889	895	901	rBV	1335137	1862698	47.68%	7.802%
7	8.181	1012	1018	1023	rBV	760302	956834	24.49%	4.008%
8	9.257	1194	1201	1206	rBV	2941901	3870393	99.07%	16.212%
9	9.939	1311	1317	1322	rBV	842247	1085794	27.79%	4.548%
10	10.728	1445	1451	1456	rBV	1996110	2602105	66.60%	10.900%
11	11.428	1564	1570	1575	rBV	977911	1232020	31.53%	5.161%
12	13.016	1834	1840	1845	rBV	2932859	3906898	100.00%	16.365%
13	14.069	2013	2019	2030	rBV	656550	847706	21.70%	3.551%
14	15.563	2266	2273	2286	rVB	377532	594312	15.21%	2.489%

Sum of corrected areas: 23873490

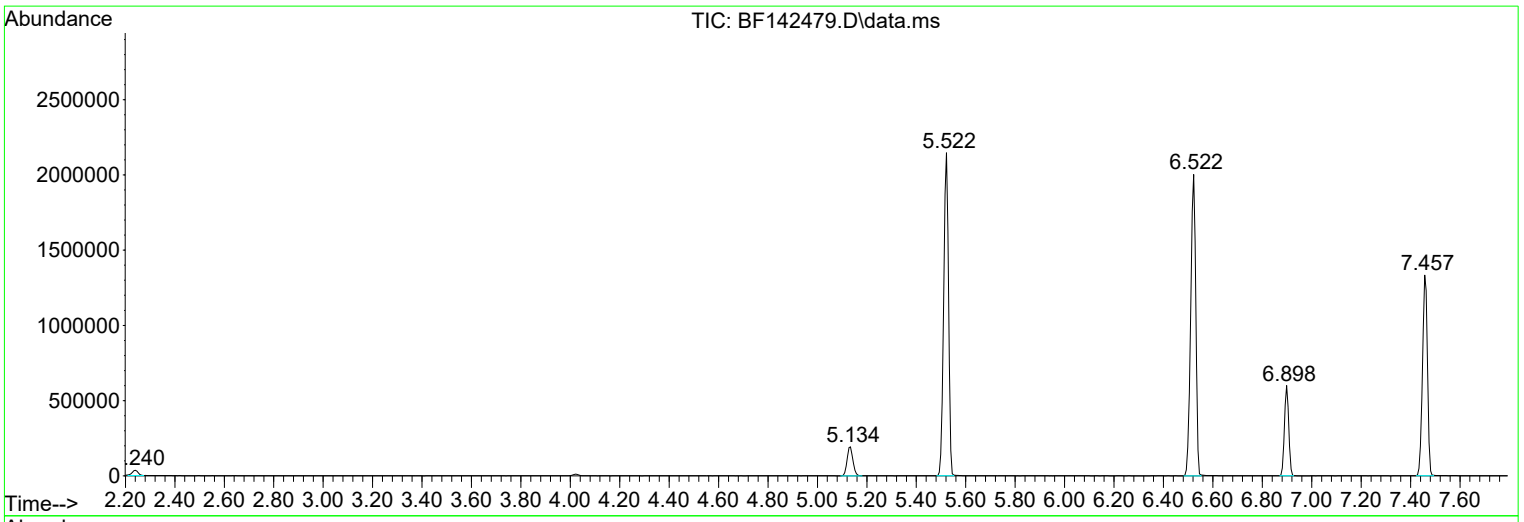
Sample Results: **BF142479.D**

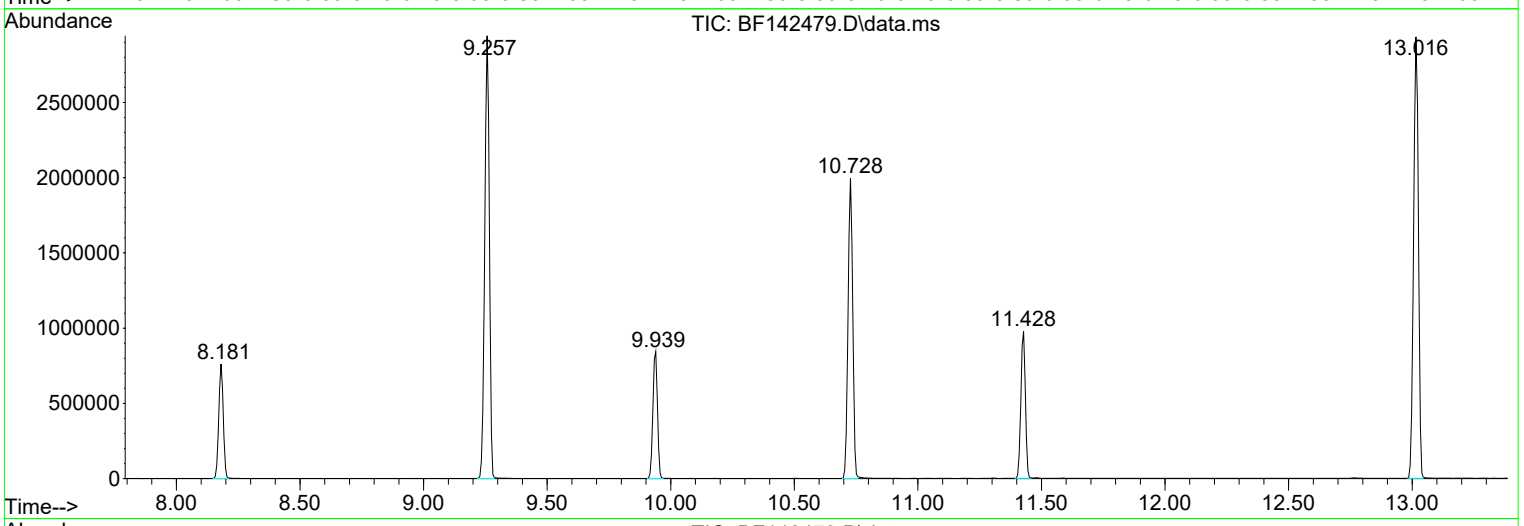
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142479.D
Acq On : 21 May 2025 11:09
Operator : RC/JU
Sample : PB168083BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

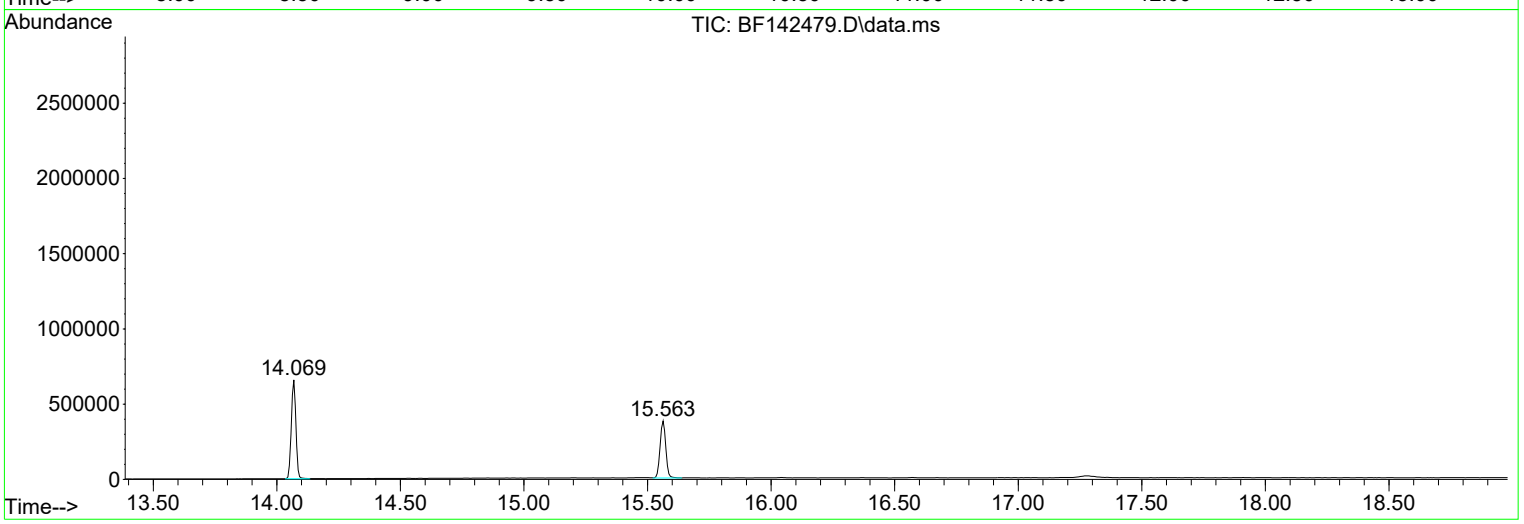
Instrument :
BNA_F
ClientSampleId :
PB168083BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Sample Results: **BF142479.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142479.D
Acq On : 21 May 2025 11:09
Operator : RC/JU
Sample : PB168083BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BL

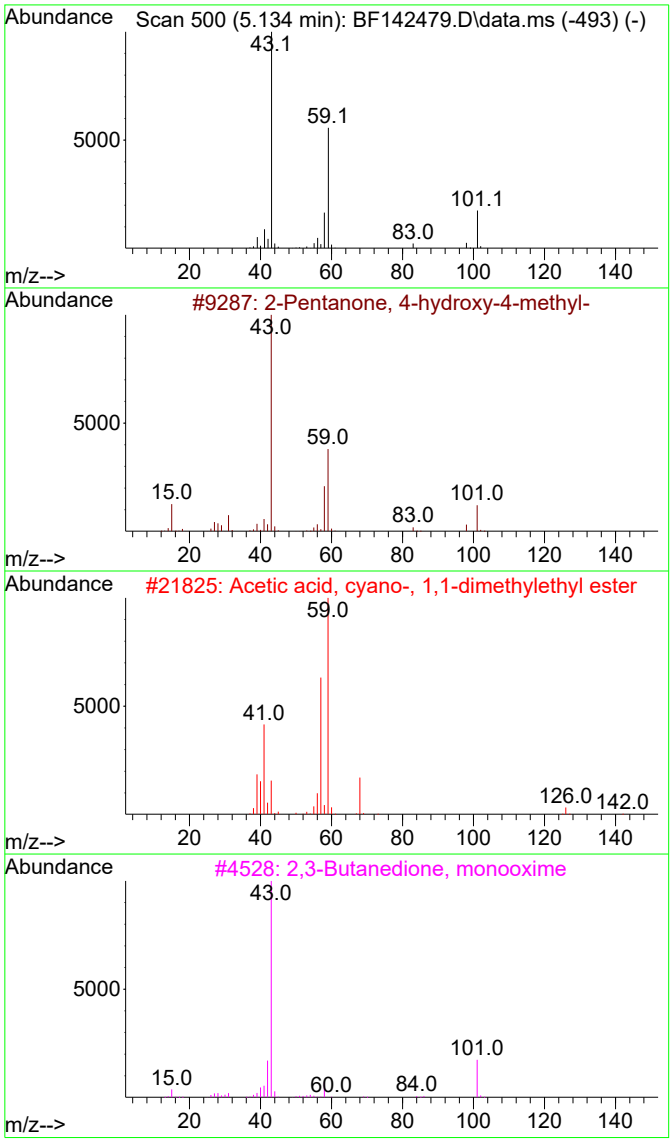
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

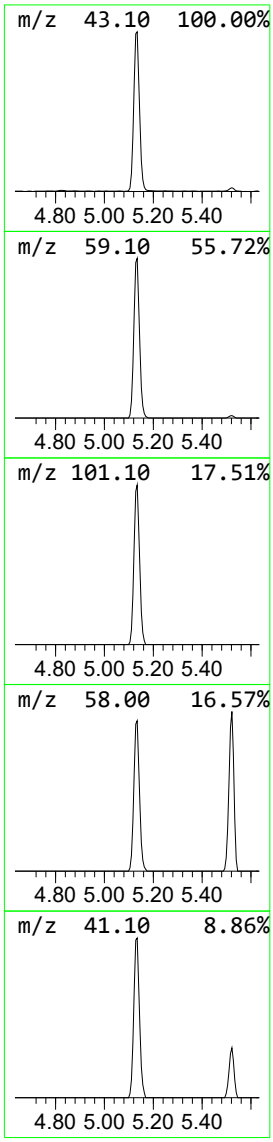
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.134	8.64 ng	311221	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Sample Results: **BF142479.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142479.D
Acq On : 21 May 2025 11:09
Operator : RC/JU
Sample : PB168083BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.134	8.6	ng	311221	1	6.898	720820	20.0

Raw Data: **BF142480.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168083BS	SDG No.:	Q2074
Lab Sample ID:	PB168083BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142480.D	1	05/20/25 09:45	05/21/25 11:37	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1200		160	330	ug/Kg
108-95-2	Phenol	1400		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1400		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1400		29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		37.5	170	ug/Kg
98-86-2	Acetophenone	1300		29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	1400		41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	1300		17.6	170	ug/Kg
98-95-3	Nitrobenzene	1400		18.3	170	ug/Kg
78-59-1	Isophorone	1400		32.8	170	ug/Kg
88-75-5	2-Nitrophenol	1500		58.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1400		64.7	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1300		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1400		28.3	170	ug/Kg
91-20-3	Naphthalene	1400		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	640		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1300		25.3	170	ug/Kg
105-60-2	Caprolactam	1500		52.0	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1400		28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	1300		25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	2800	E	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1400		19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1400		29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	1300		21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	1300		22.5	170	ug/Kg
88-74-4	2-Nitroaniline	1400		48.1	170	ug/Kg
131-11-3	Dimethylphthalate	1400		27.1	170	ug/Kg

Raw Data: **BF142480.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168083BS	SDG No.:	Q2074
Lab Sample ID:	PB168083BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142480.D	1	05/20/25 09:45	05/21/25 11:37	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1300		28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1400		33.6	170	ug/Kg
99-09-2	3-Nitroaniline	890		46.0	170	ug/Kg
83-32-9	Acenaphthene	1500		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3300	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	3000	E	110	330	ug/Kg
132-64-9	Dibenzofuran	1400		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1500		50.0	170	ug/Kg
84-66-2	Diethylphthalate	1500		28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1300		26.7	170	ug/Kg
86-73-7	Fluorene	1300		25.3	170	ug/Kg
100-01-6	4-Nitroaniline	1500		64.1	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1300		32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1400		25.3	170	ug/Kg
1912-24-9	Atrazine	1600		34.0	170	ug/Kg
87-86-5	Pentachlorophenol	2800	E	51.2	330	ug/Kg
85-01-8	Phenanthrene	1400		20.9	170	ug/Kg
120-12-7	Anthracene	1300		33.3	170	ug/Kg
86-74-8	Carbazole	1400		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1500		47.9	170	ug/Kg
206-44-0	Fluoranthene	1500		30.0	170	ug/Kg
129-00-0	Pyrene	1600		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1600		71.3	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	810		36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	1400		23.0	170	ug/Kg
218-01-9	Chrysene	1400		19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		59.1	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1400		86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		19.0	170	ug/Kg

Raw Data: **BF142480.D**

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

Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168083BS			SDG No.:	Q2074
Lab Sample ID:	PB168083BS			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142480.D	1	05/20/25 09:45	05/21/25 11:37	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1400		22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	1500		29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1300		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1100		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1400		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	107		18 - 112	71%	SPK: 150
13127-88-3	Phenol-d6	115		15 - 107	76%	SPK: 150
4165-60-0	Nitrobenzene-d5	69.4		18 - 107	69%	SPK: 100
321-60-8	2-Fluorobiphenyl	66.0		20 - 109	66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	117		10 - 116	78%	SPK: 150
1718-51-0	Terphenyl-d14	81.6		10 - 105	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	125000	6.898			
1146-65-2	Naphthalene-d8	495000	8.186			
15067-26-2	Acenaphthene-d10	277000	9.939			
1517-22-2	Phenanthrene-d10	469000	11.427			
1719-03-5	Chrysene-d12	215000	14.068			
1520-96-3	Perylene-d12	230000	15.562			

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\BF052125\
Data File : BF142480.D
Acq On : 21 May 2025 11:37
Operator : RC/JU
Sample : PB168083BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Quant Time: May 21 12:24:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	124824	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	495438	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	277044	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	468851	20.000	ng	0.00
76) Chrysene-d12	14.068	240	214548	20.000	ng	0.00
86) Perylene-d12	15.562	264	229705	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	789637	106.578	ng	0.00
7) Phenol-d6	6.528	99	1023184	114.723	ng	0.00
23) Nitrobenzene-d5	7.463	82	630226	69.364	ng	-0.01
42) 2,4,6-Tribromophenol	10.733	330	359414	116.889	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	1363534	66.043	ng	0.00
79) Terphenyl-d14	13.015	244	1280646	81.570	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.763	88	96201	32.448	ng	100
3) Pyridine	3.516	79	266558	35.306	ng	99
4) n-Nitrosodimethylamine	3.469	42	148567	37.899	ng	96
6) Aniline	6.563	93	411299	34.298	ng	100
8) 2-Chlorophenol	6.686	128	342541	42.446	ng	100
9) Benzaldehyde	6.451	77	192665	35.916	ng	98
10) Phenol	6.539	94	417865	41.639	ng	98
11) bis(2-Chloroethyl)ether	6.634	93	309767	42.881	ng	100
12) 1,3-Dichlorobenzene	6.839	146	362444	40.249	ng	100
13) 1,4-Dichlorobenzene	6.916	146	370203	40.813	ng	99
14) 1,2-Dichlorobenzene	7.069	146	355431	40.950	ng	99
15) Benzyl Alcohol	7.039	79	279366	42.387	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.175	45	500612	41.266	ng	100
17) 2-Methylphenol	7.151	107	268227	42.571	ng	99
18) Hexachloroethane	7.416	117	127582	40.280	ng	99
19) n-Nitroso-di-n-propyla...	7.310	70	227666	41.189	ng	99
20) 3+4-Methylphenols	7.304	107	334399	41.445	ng	98
22) Acetophenone	7.310	105	439615	40.084	ng	99
24) Nitrobenzene	7.481	77	337199	41.149	ng	99
25) Isophorone	7.722	82	626222	41.224	ng	99
26) 2-Nitrophenol	7.798	139	192665	44.001	ng	97
27) 2,4-Dimethylphenol	7.833	122	329798	42.710	ng	100
28) bis(2-Chloroethoxy)met...	7.928	93	383733	40.438	ng	99
29) 2,4-Dichlorophenol	8.039	162	298440	42.499	ng	99
30) 1,2,4-Trichlorobenzene	8.122	180	310974	40.804	ng	98
31) Naphthalene	8.204	128	1023370	41.950	ng	100
32) Benzoic acid	7.951	122	223837m	47.620	ng	
33) 4-Chloroaniline	8.251	127	189181m	19.138	ng	
34) Hexachlorobutadiene	8.322	225	187885	39.483	ng	100
35) Caprolactam	8.622	113	90734m	46.005	ng	
36) 4-Chloro-3-methylphenol	8.733	107	304323	42.286	ng	98
37) 2-Methylnaphthalene	8.898	142	614650	40.049	ng	100
38) 1-Methylnaphthalene	8.998	142	647702	40.800	ng	99
40) 1,2,4,5-Tetrachloroben...	9.063	216	312557	39.302	ng	99
41) Hexachlorocyclopentadiene	9.051	237	446528	83.232	ng	99
43) 2,4,6-Trichlorophenol	9.175	196	222225	41.439	ng	97

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142480.D
Acq On : 21 May 2025 11:37
Operator : RC/JU
Sample : PB168083BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Quant Time: May 21 12:24:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

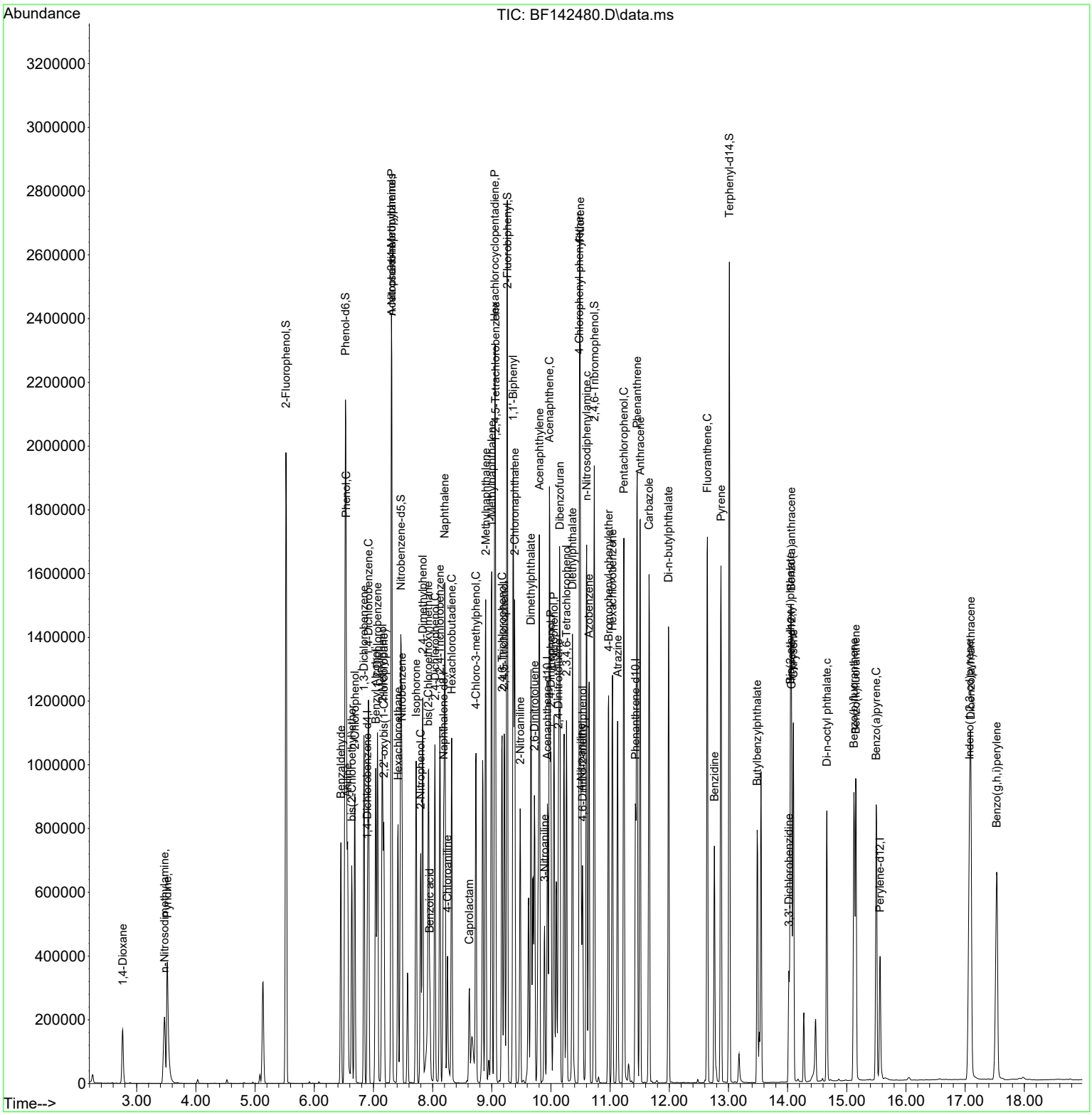
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	2,4,5-Trichlorophenol	9.210	196	233019	41.201	ng	99
46)	1,1'-Biphenyl	9.363	154	859058	39.968	ng	100
47)	2-Chloronaphthalene	9.386	162	641274	40.382	ng	99
48)	2-Nitroaniline	9.480	65	194148	42.297	ng	97
49)	Acenaphthylene	9.804	152	1082413	40.366	ng	100
50)	Dimethylphthalate	9.663	163	772268	42.246	ng	100
51)	2,6-Dinitrotoluene	9.722	165	169971	43.080	ng	99
52)	Acenaphthene	9.974	154	716666	43.769	ng	100
53)	3-Nitroaniline	9.892	138	115354	26.768	ng	99
54)	2,4-Dinitrophenol	9.998	184	201837	99.019	ng	93
55)	Dibenzofuran	10.151	168	978668	41.535	ng	99
56)	4-Nitrophenol	10.051	139	288407	90.703	ng	99
57)	2,4-Dinitrotoluene	10.127	165	236587	45.916	ng	98
58)	Fluorene	10.492	166	731497	40.185	ng	99
59)	2,3,4,6-Tetrachlorophenol	10.263	232	199574	42.269	ng	99
60)	Diethylphthalate	10.363	149	778235	43.590	ng	100
61)	4-Chlorophenyl-phenyle...	10.480	204	353935	39.581	ng	100
62)	4-Nitroaniline	10.510	138	172618	44.166	ng	99
63)	Azobenzene	10.645	77	646640	40.325	ng	99
65)	4,6-Dinitro-2-methylph...	10.533	198	132075	50.477	ng	98
66)	n-Nitrosodiphenylamine	10.604	169	625355	38.986	ng	99
67)	4-Bromophenyl-phenylether	10.974	248	227003	40.947	ng	99
68)	Hexachlorobenzene	11.039	284	259350	42.297	ng	98
69)	Atrazine	11.127	200	199511	46.835	ng	100
70)	Pentachlorophenol	11.233	266	293992	84.924	ng	99
71)	Phenanthrene	11.457	178	1055879	42.140	ng	99
72)	Anthracene	11.510	178	1033289	40.407	ng	99
73)	Carbazole	11.657	167	950628	43.485	ng	99
74)	Di-n-butylphthalate	11.986	149	1042271	43.556	ng	100
75)	Fluoranthene	12.645	202	1035557	44.231	ng	99
77)	Benzidine	12.763	184	421887	52.842	ng	99
78)	Pyrene	12.874	202	980148	48.973	ng	100
80)	Butylbenzylphthalate	13.486	149	268182	48.493	ng	99
81)	Benzo(a)anthracene	14.062	228	623164	43.497	ng	99
82)	3,3'-Dichlorobenzidine	14.021	252	106125	24.423	ng	99
83)	Chrysene	14.098	228	540084	41.954	ng	99
84)	Bis(2-ethylhexyl)phtha...	14.045	149	319188	45.086	ng	100
85)	Di-n-octyl phthalate	14.662	149	580953	41.968	ng	100
87)	Indeno(1,2,3-cd)pyrene	17.074	276	812696	47.127	ng	100
88)	Benzo(b)fluoranthene	15.121	252	609272	44.816	ng	99
89)	Benzo(k)fluoranthene	15.151	252	521543	40.959	ng	99
90)	Benzo(a)pyrene	15.498	252	561953	43.852	ng	99
91)	Dibenzo(a,h)anthracene	17.098	278	657561	47.014	ng	100
92)	Benzo(g,h,i)perylene	17.533	276	664539	47.503	ng	98

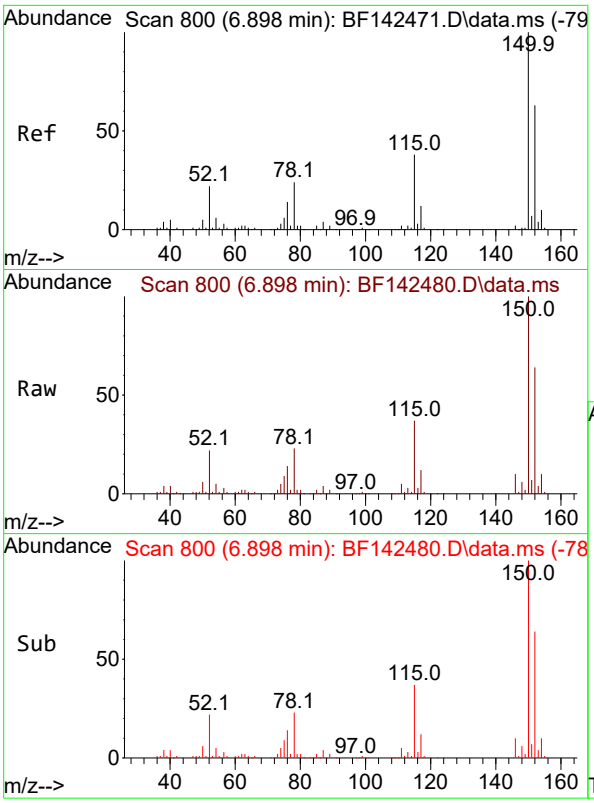
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142480.D
Acq On : 21 May 2025 11:37
Operator : RC/JU
Sample : PB168083BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Quant Time: May 21 12:24:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



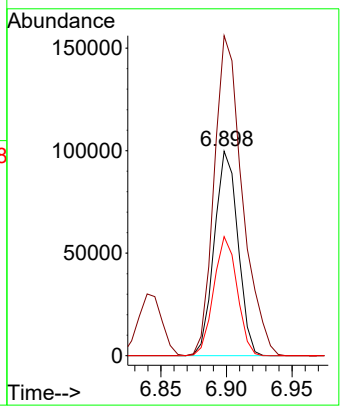


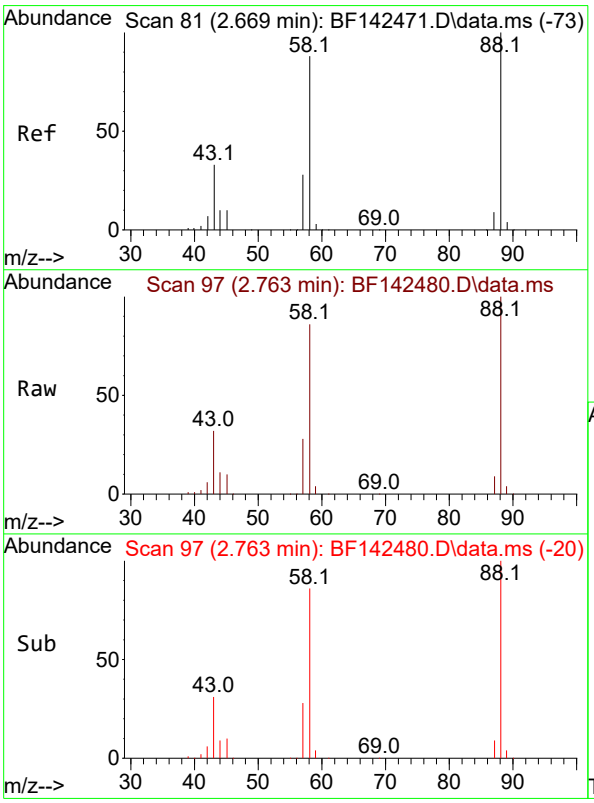
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:152 Resp: 124824

Ion	Ratio	Lower	Upper
152	100		
150	156.5	128.2	192.4
115	58.2	48.3	72.5

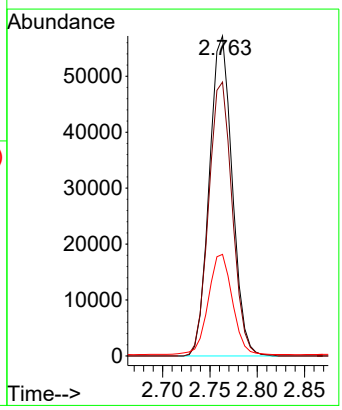


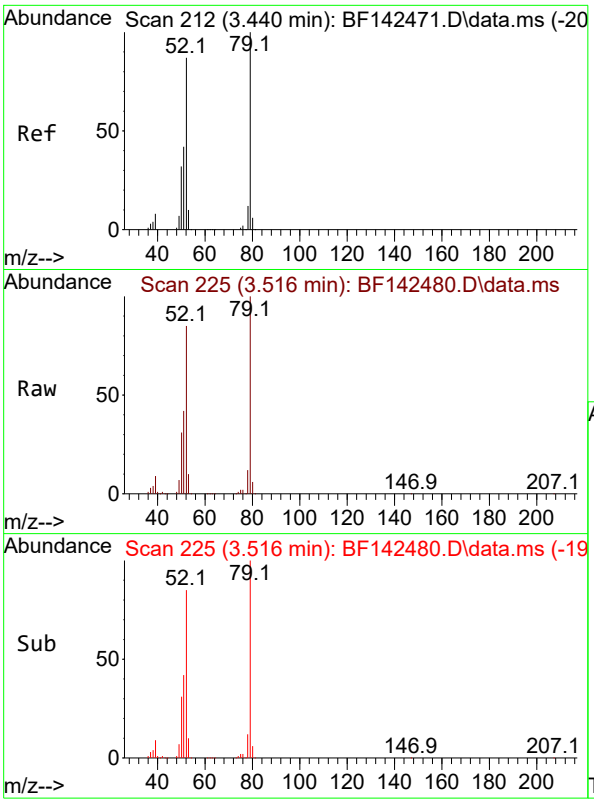


#2
1,4-Dioxane
Concen: 32.448 ng
RT: 2.763 min Scan# 97
Delta R.T. 0.100 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion: 88 Resp: 96201

Ion	Ratio	Lower	Upper
88	100		
58	88.1	70.8	106.2
43	33.0	26.6	40.0



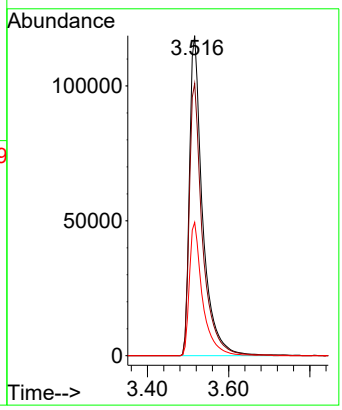


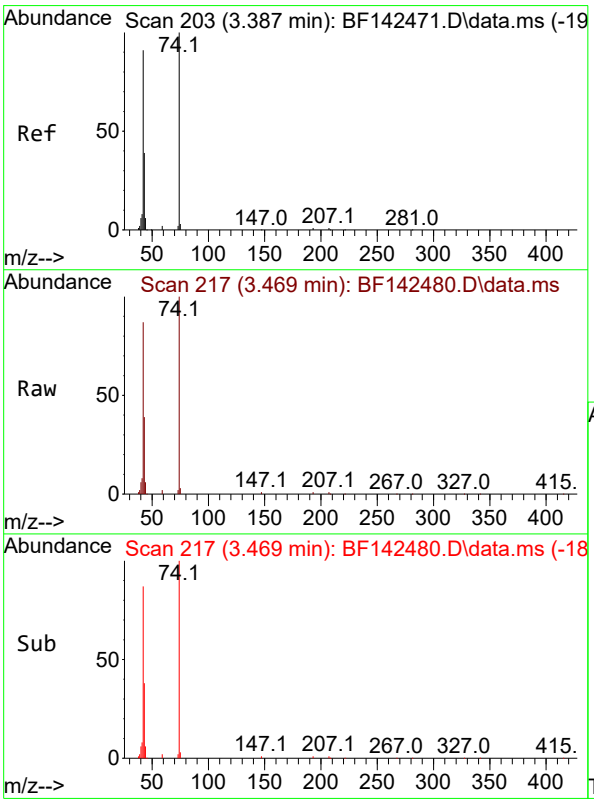
#3
Pyridine
Concen: 35.306 ng
RT: 3.516 min Scan# 2
Delta R.T. 0.076 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion: 79 Resp: 266558

Ion	Ratio	Lower	Upper
79	100		
52	85.1	69.2	103.8
51	41.6	33.3	49.9

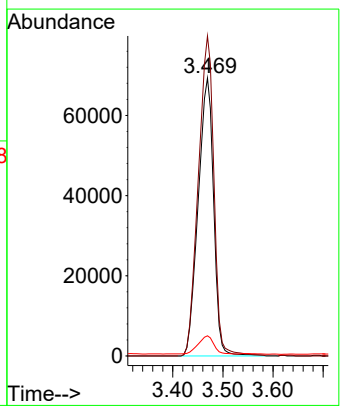


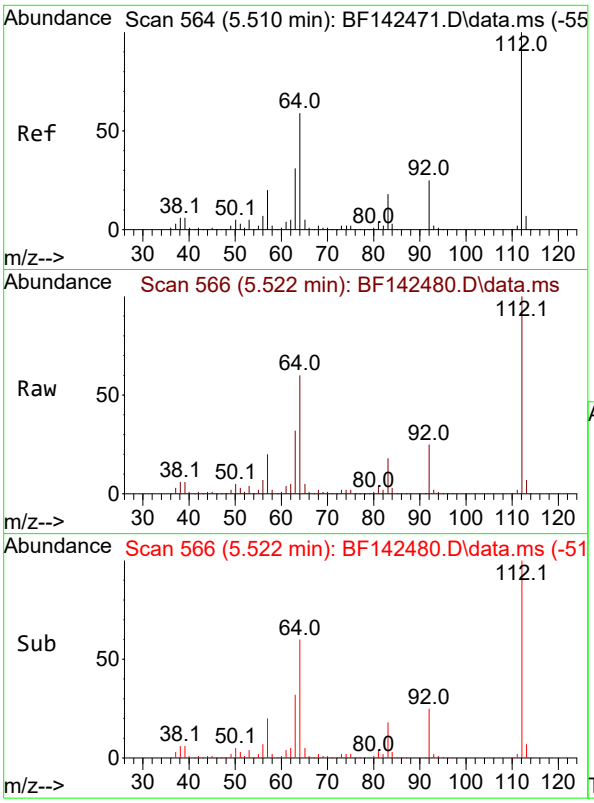


#4
n-Nitrosodimethylamine
Concen: 37.899 ng
RT: 3.469 min Scan# 217
Delta R.T. 0.065 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion: 42 Resp: 148567

Ion	Ratio	Lower	Upper
42	100		
74	115.2	88.2	132.4
44	7.3	5.4	8.2



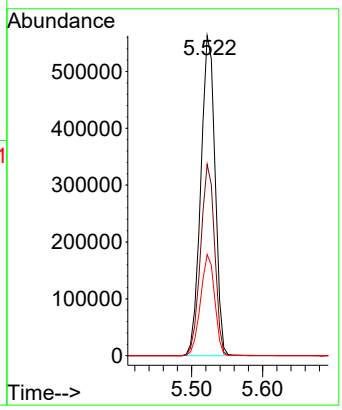


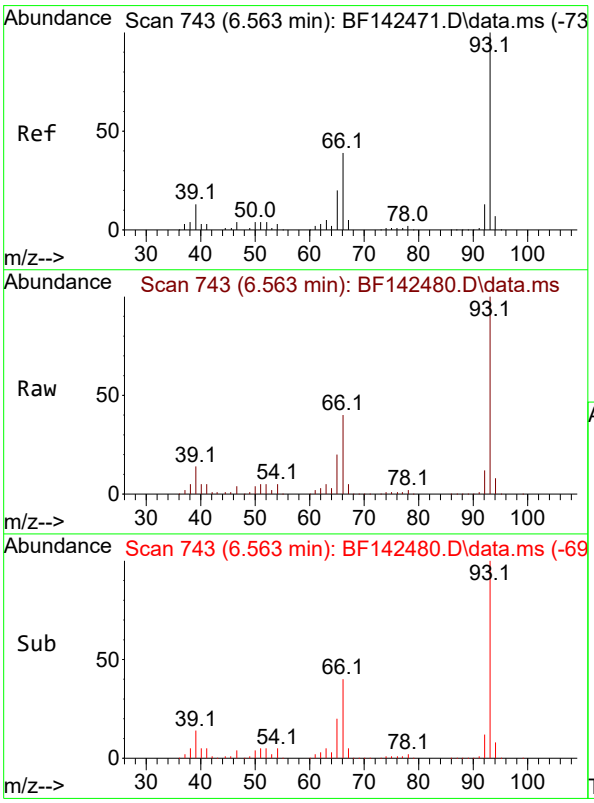
#5
2-Fluorophenol
Concen: 106.578 ng
RT: 5.522 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:112 Resp: 789637

Ion	Ratio	Lower	Upper
112	100		
64	59.8	47.5	71.3
63	31.6	24.9	37.3

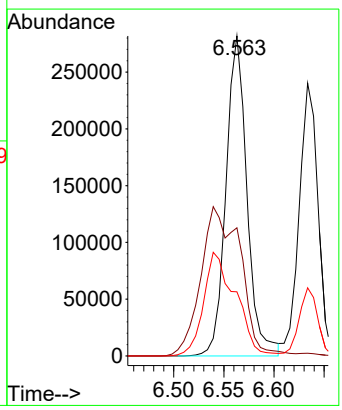


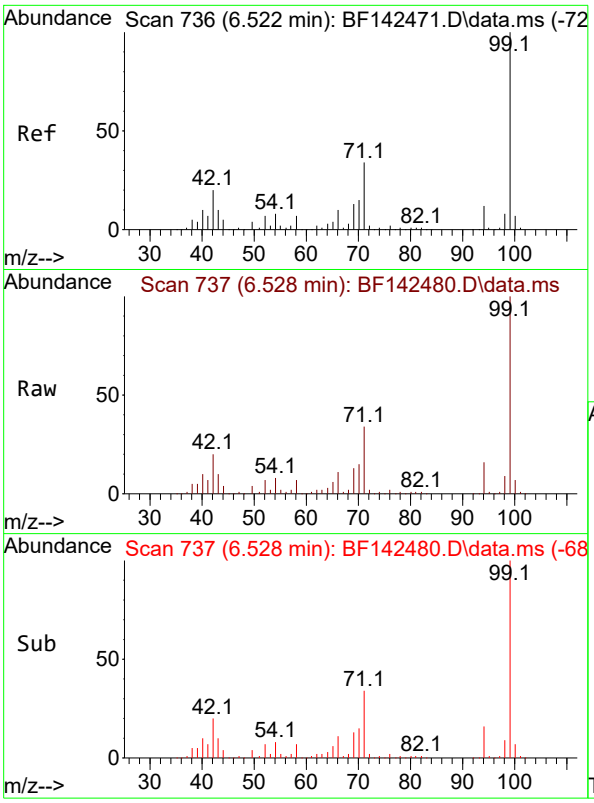


#6
Aniline
Concen: 34.298 ng
RT: 6.563 min Scan# 743
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion: 93 Resp: 411299

Ion	Ratio	Lower	Upper
93	100		
66	40.1	32.0	48.0
65	20.1	16.1	24.1



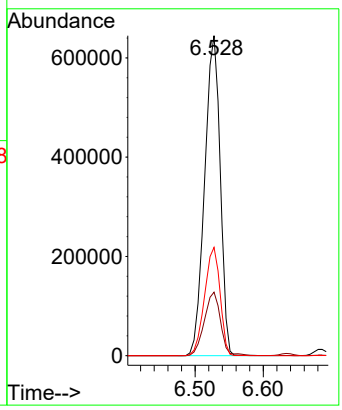


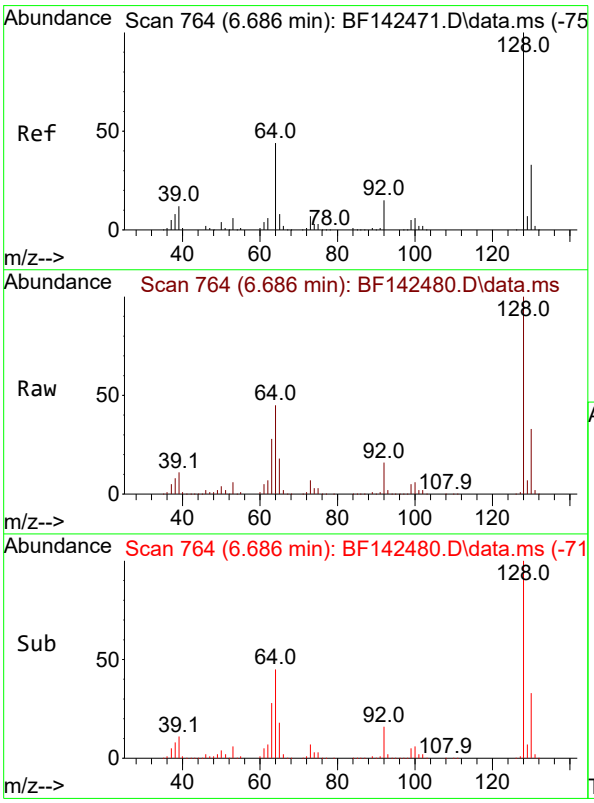
#7
Phenol-d6
Concen: 114.723 ng
RT: 6.528 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion: 99 Resp: 1023184

Ion	Ratio	Lower	Upper
99	100		
42	19.8	16.2	24.2
71	33.9	27.3	40.9

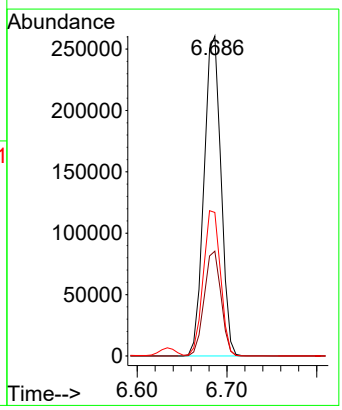


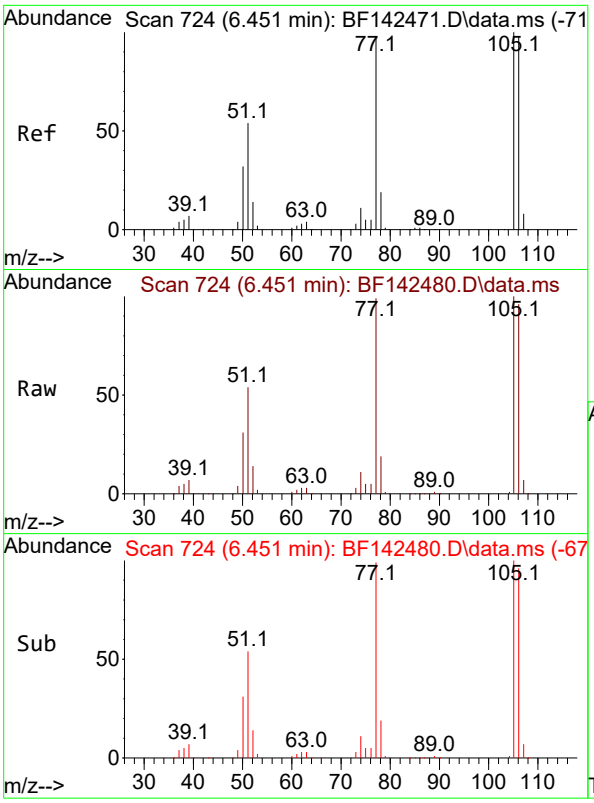


#8
2-Chlorophenol
Concen: 42.446 ng
RT: 6.686 min Scan# 764
Delta R.T. 0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:128 Resp: 342541

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.6	52.6
64	44.8	25.1	65.1



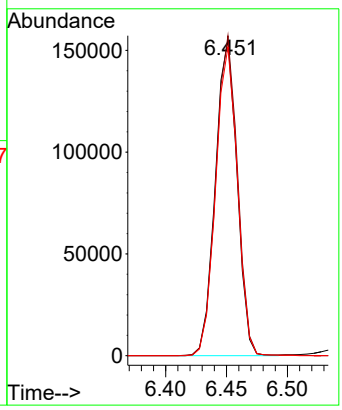


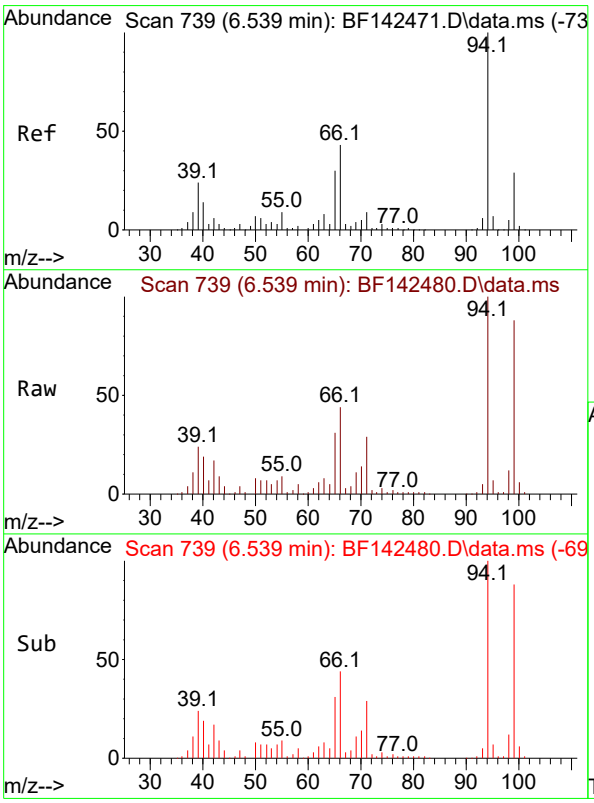
#9
Benzaldehyde
Concen: 35.916 ng
RT: 6.451 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion: 77 Resp: 192665

Ion	Ratio	Lower	Upper
77	100		
105	101.5	82.5	122.5
106	97.9	80.0	120.0

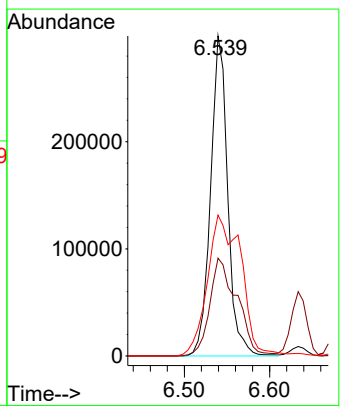


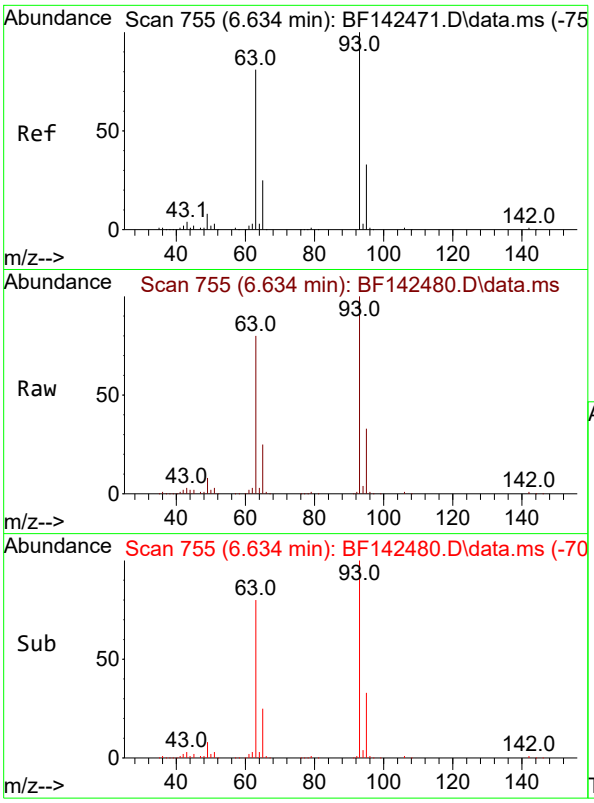


#10
Phenol
Concen: 41.639 ng
RT: 6.539 min Scan# 739
Delta R.T. -0.012 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion: 94 Resp: 417865

Ion	Ratio	Lower	Upper
94	100		
65	30.6	10.3	50.3
66	44.0	22.6	62.6



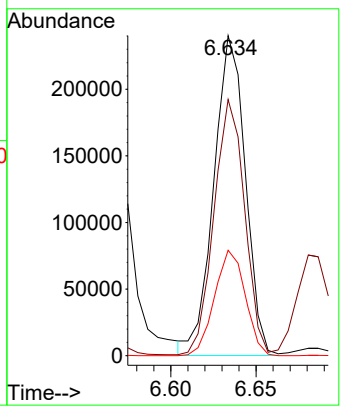


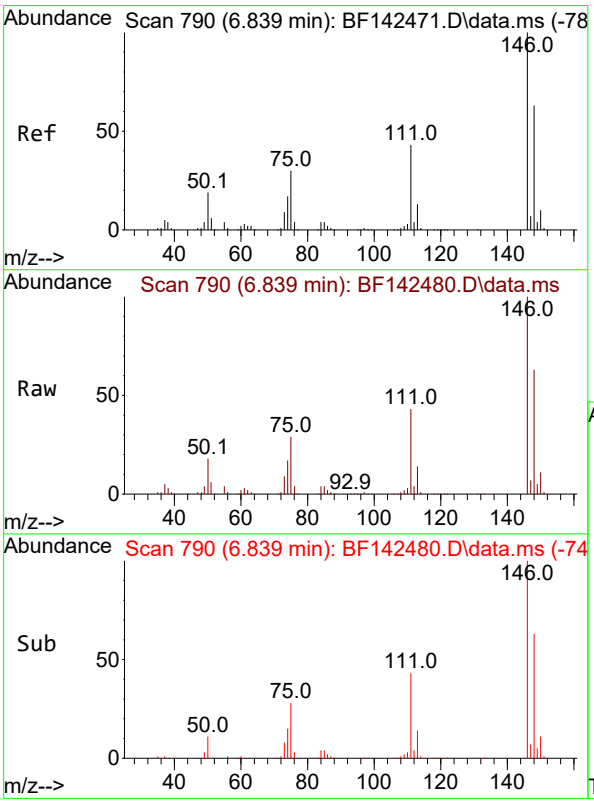
#11
bis(2-Chloroethyl)ether
Concen: 42.881 ng
RT: 6.634 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion: 93 Resp: 309767

Ion	Ratio	Lower	Upper
93	100		
63	80.1	60.2	100.2
95	32.9	12.3	52.3

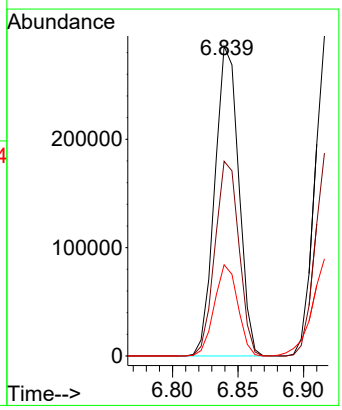


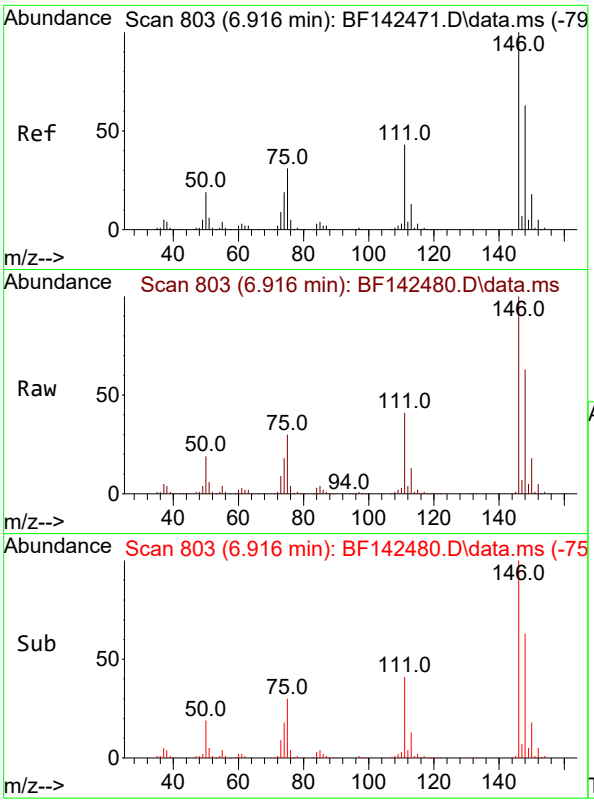


#12
1,3-Dichlorobenzene
Concen: 40.249 ng
RT: 6.839 min Scan# 790
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:146 Resp: 362444

Ion	Ratio	Lower	Upper
146	100		
148	62.9	50.6	75.8
75	29.4	23.8	35.6



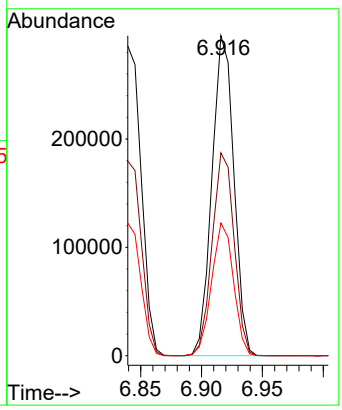


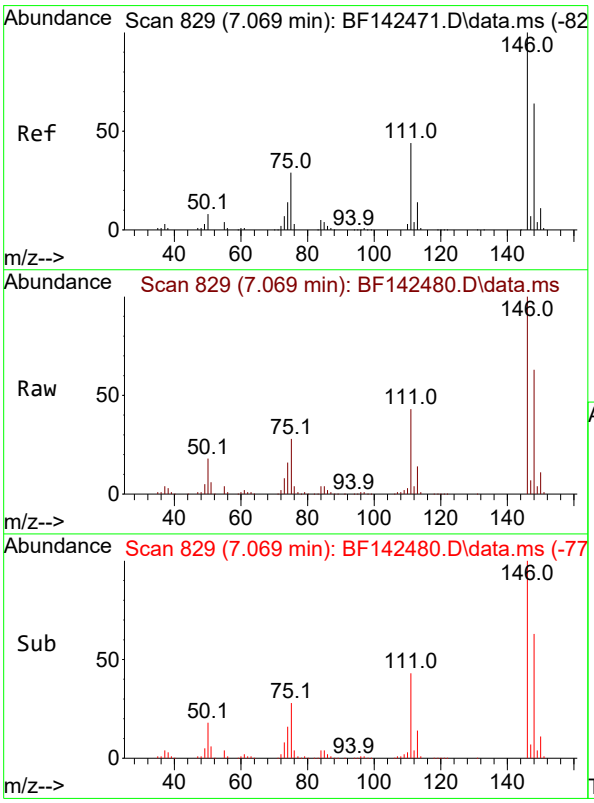
#13
1,4-Dichlorobenzene
Concen: 40.813 ng
RT: 6.916 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:146 Resp: 370203

Ion	Ratio	Lower	Upper
146	100		
148	63.4	50.4	75.6
111	41.4	34.1	51.1

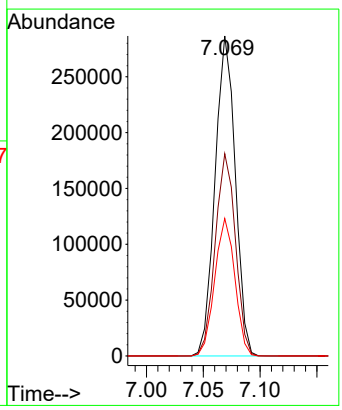


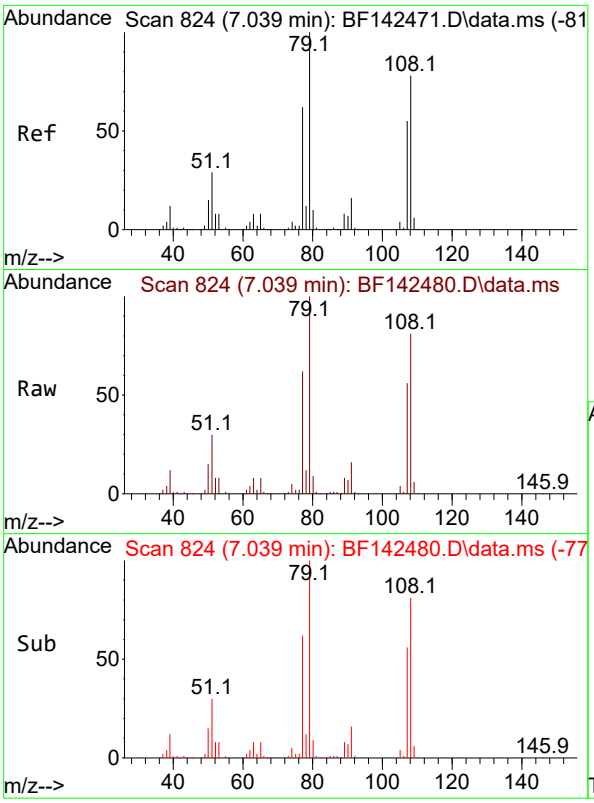


#14
1,2-Dichlorobenzene
Concen: 40.950 ng
RT: 7.069 min Scan# 829
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:146 Resp: 355431

Ion	Ratio	Lower	Upper
146	100		
148	63.2	51.0	76.4
111	42.9	35.0	52.6



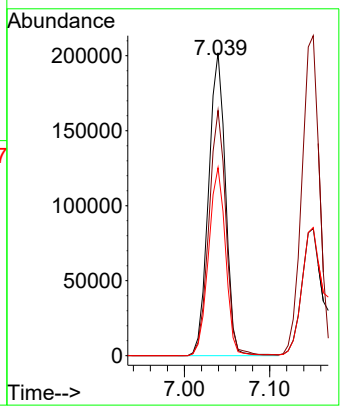


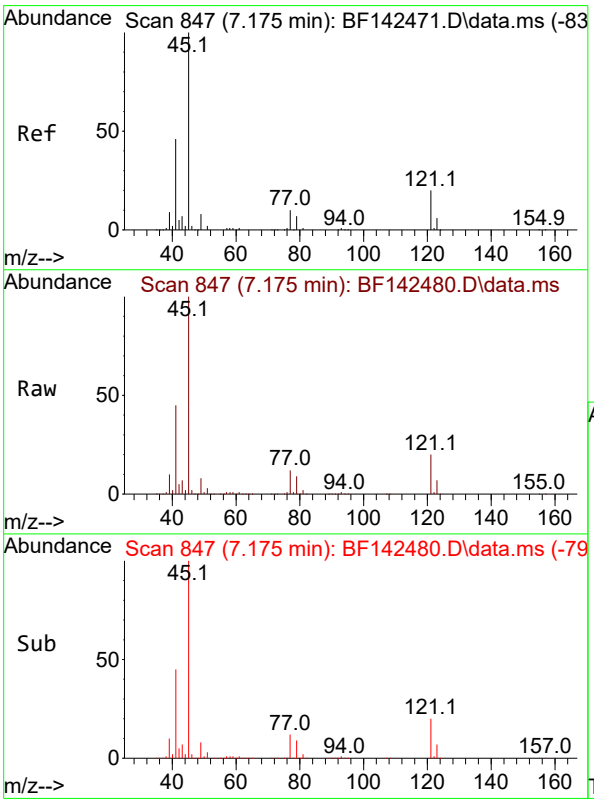
#15
Benzyl Alcohol
Concen: 42.387 ng
RT: 7.039 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion: 79 Resp: 279366

Ion	Ratio	Lower	Upper
79	100		
108	81.0	62.1	93.1
77	62.1	49.5	74.3

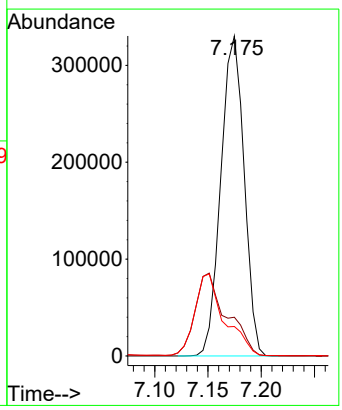


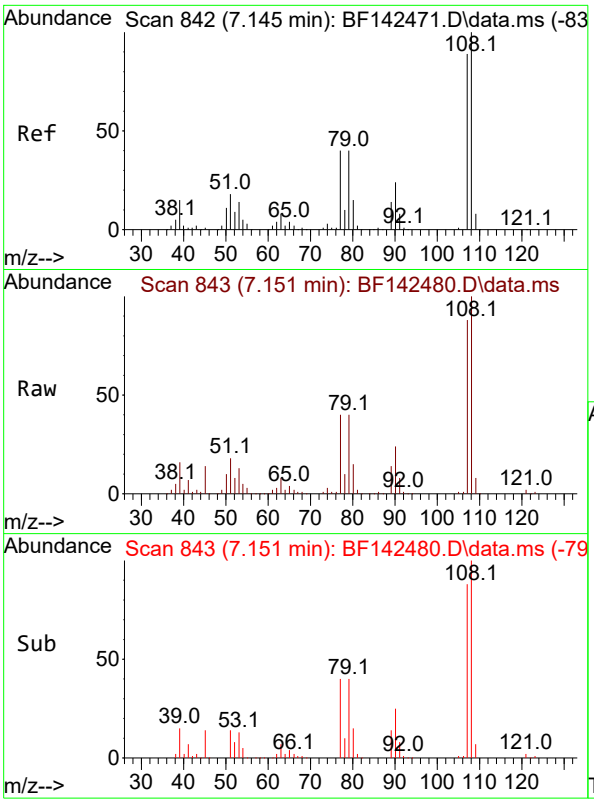


#16
2,2'-oxybis(1-Chloropropane)
Concen: 41.266 ng
RT: 7.175 min Scan# 847
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion: 45 Resp: 500612

Ion	Ratio	Lower	Upper
45	100		
77	12.1	0.0	32.0
79	9.2	0.0	29.2



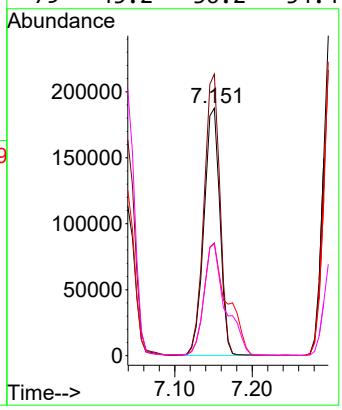


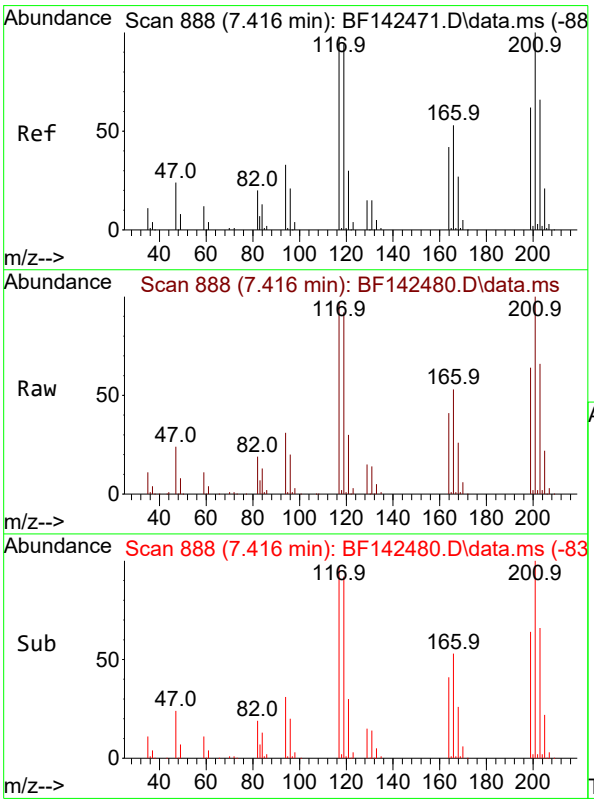
#17
2-Methylphenol
Concen: 42.571 ng
RT: 7.151 min Scan# 84
Delta R.T. -0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:107 Resp: 268227

Ion	Ratio	Lower	Upper
107	100		
108	113.7	90.2	135.2
77	45.6	36.1	54.1
79	45.2	36.2	54.4

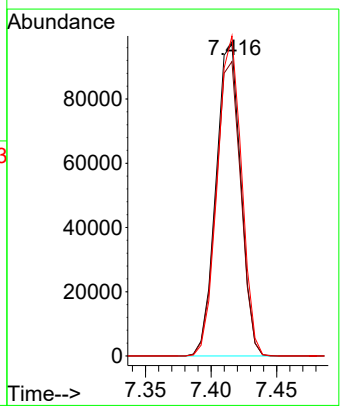


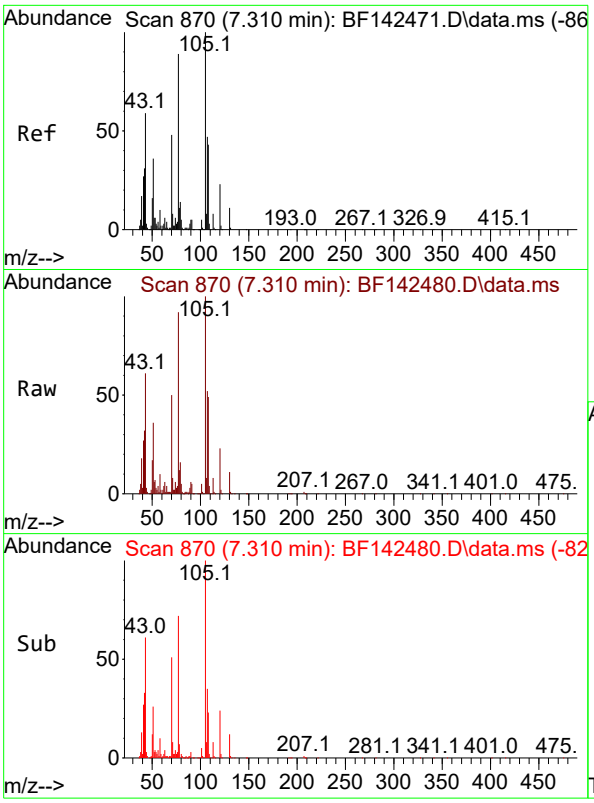


#18
Hexachloroethane
Concen: 40.280 ng
RT: 7.416 min Scan# 888
Delta R.T. 0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:117 Resp: 127582

Ion	Ratio	Lower	Upper
117	100		
119	94.4	76.6	114.8
201	102.6	81.3	121.9



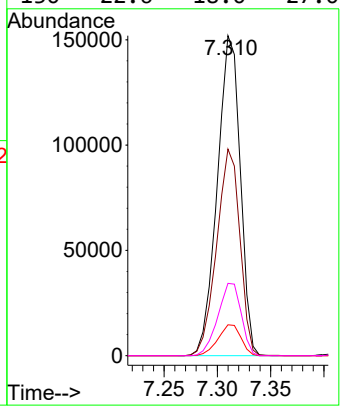


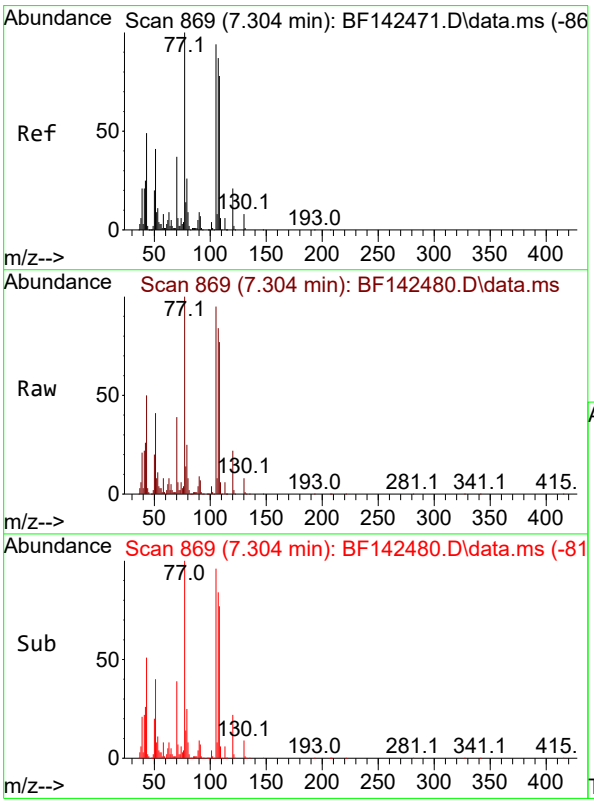
#19
n-Nitroso-di-n-propylamine
Concen: 41.189 ng
RT: 7.310 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion: 70 Resp: 227666

Ion	Ratio	Lower	Upper
70	100		
42	64.6	52.4	78.6
101	9.7	7.8	11.8
130	22.6	18.0	27.0

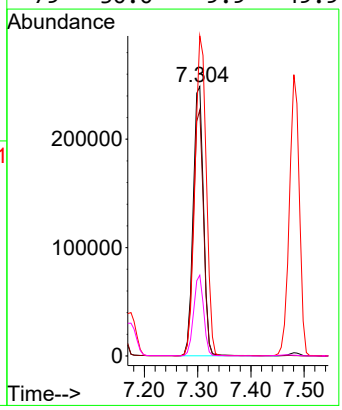


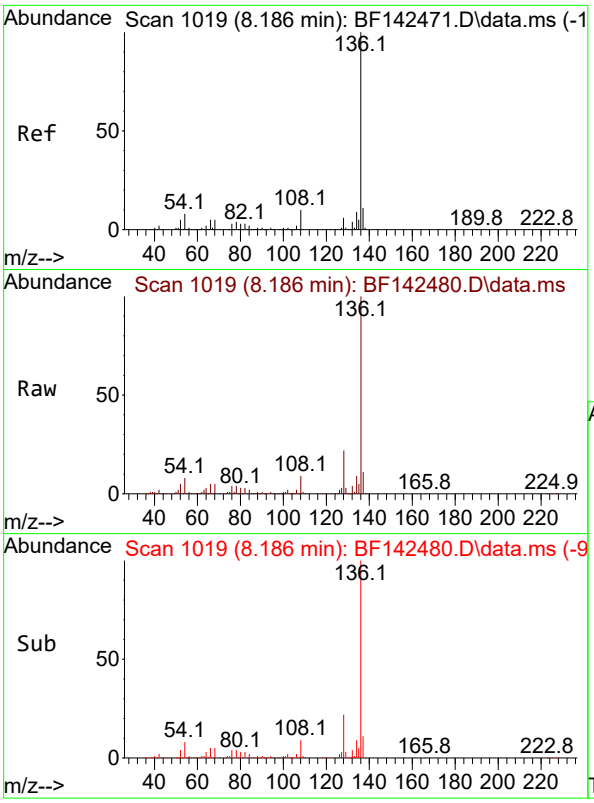


#20
3+4-Methylphenols
Concen: 41.445 ng
RT: 7.304 min Scan# 869
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:107 Resp: 334399

Ion	Ratio	Lower	Upper
107	100		
108	91.3	70.4	110.4
77	118.8	95.4	135.4
79	30.0	9.9	49.9



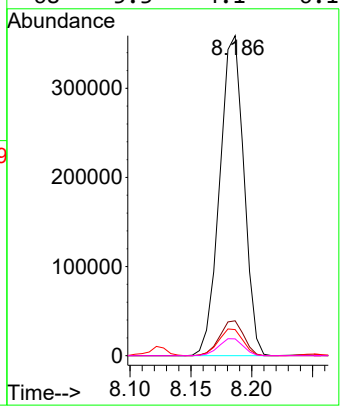


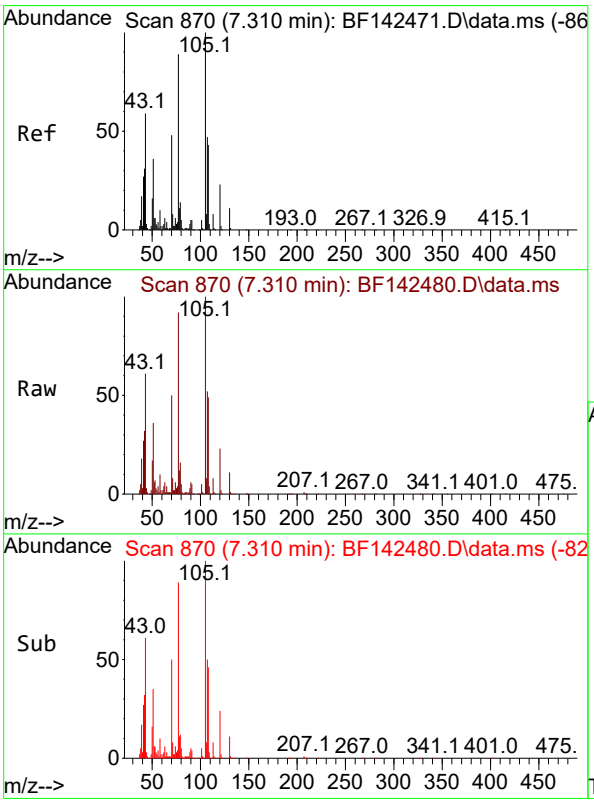
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:136 Resp: 495438

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.2	6.6	10.0
68	5.3	4.1	6.1

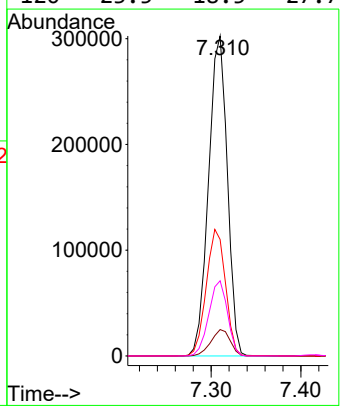


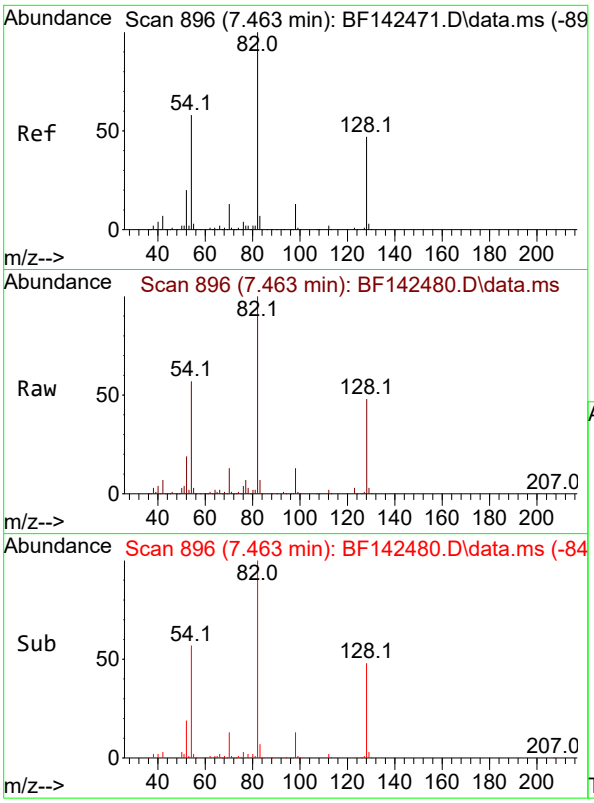


#22
Acetophenone
Concen: 40.084 ng
RT: 7.310 min Scan# 870
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:105 Resp: 439615

Ion	Ratio	Lower	Upper
105	100		
71	8.2	6.4	9.6
51	36.4	28.6	42.8
120	23.5	18.5	27.7



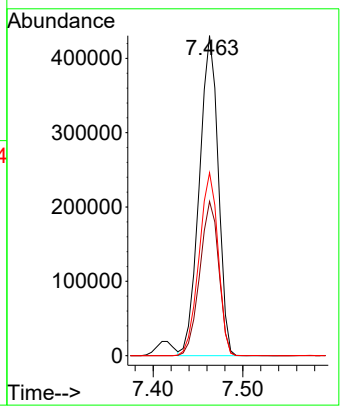


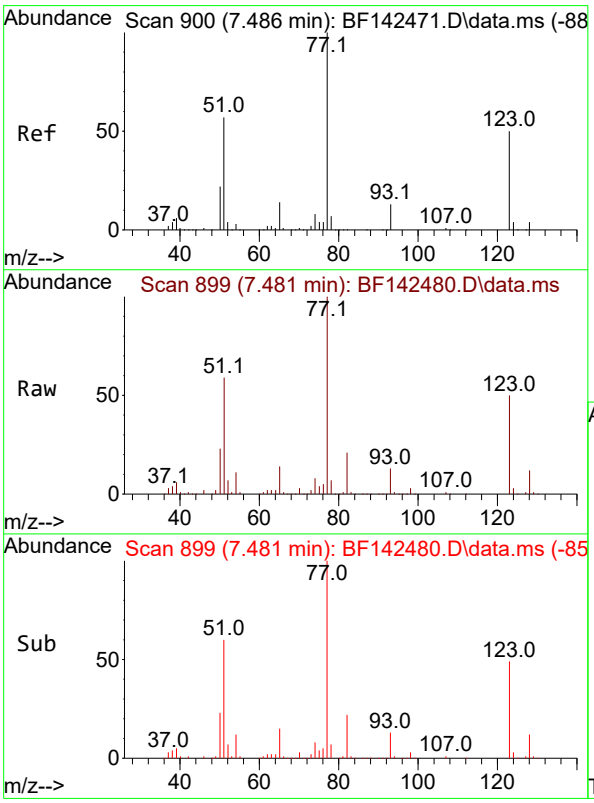
#23
Nitrobenzene-d5
Concen: 69.364 ng
RT: 7.463 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion: 82 Resp: 630226

Ion	Ratio	Lower	Upper
82	100		
128	48.2	37.4	56.2
54	57.2	46.6	70.0

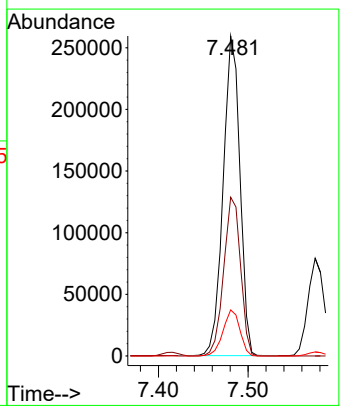


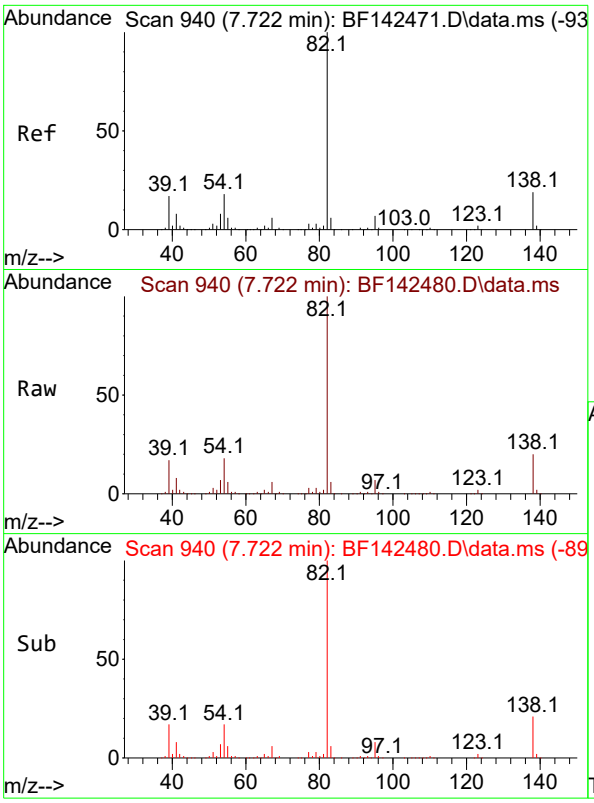


#24
Nitrobenzene
Concen: 41.149 ng
RT: 7.481 min Scan# 899
Delta R.T. -0.012 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion: 77 Resp: 337199

Ion	Ratio	Lower	Upper
77	100		
123	49.6	40.6	61.0
65	14.4	11.4	17.2



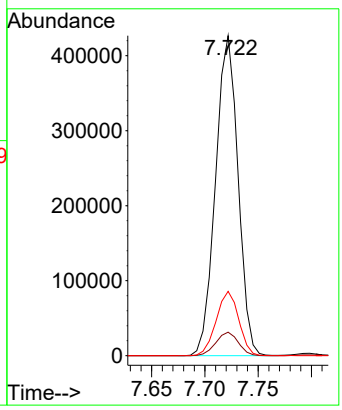


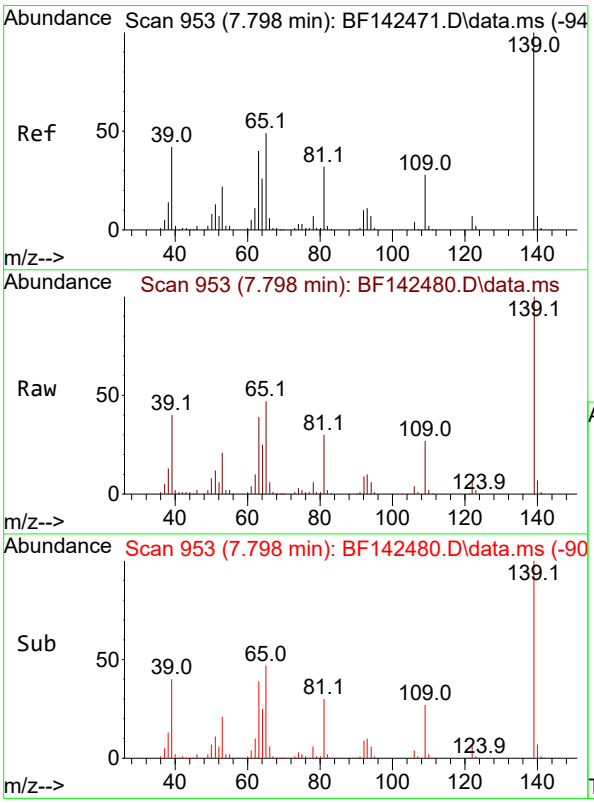
#25
Isophorone
Concen: 41.224 ng
RT: 7.722 min Scan# 94
Delta R.T. -0.012 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion: 82 Resp: 626222

Ion	Ratio	Lower	Upper
82	100		
95	7.4	6.0	9.0
138	20.1	15.5	23.3

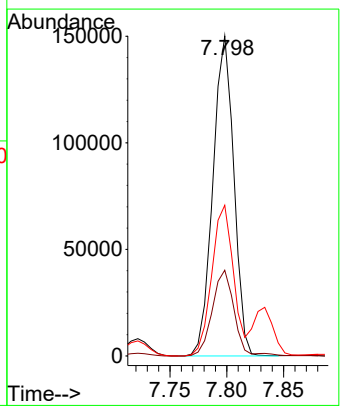


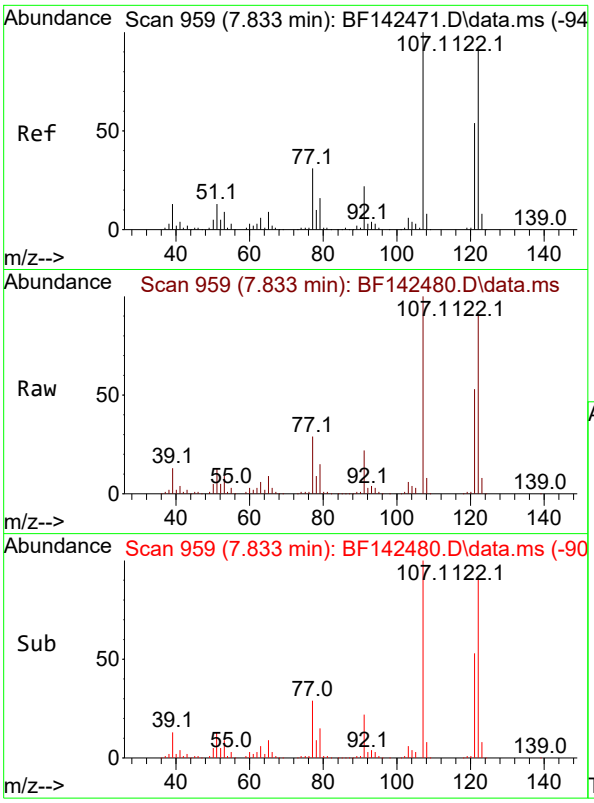


#26
2-Nitrophenol
Concen: 44.001 ng
RT: 7.798 min Scan# 953
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:139 Resp: 192665

Ion	Ratio	Lower	Upper
139	100		
109	26.8	22.6	33.8
65	47.1	39.4	59.0



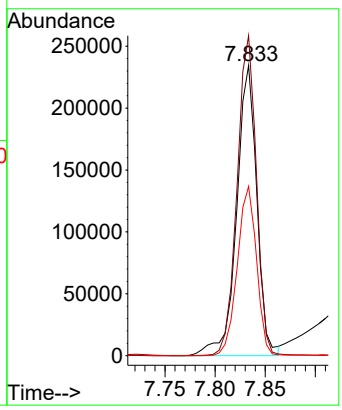


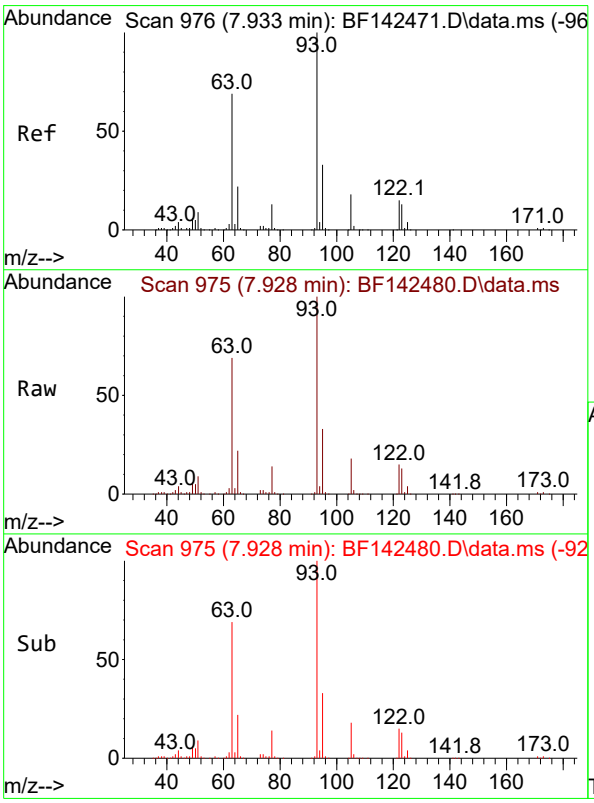
#27
2,4-Dimethylphenol
Concen: 42.710 ng
RT: 7.833 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:122 Resp: 329798

Ion	Ratio	Lower	Upper
122	100		
107	110.3	88.1	132.1
121	58.3	47.3	70.9

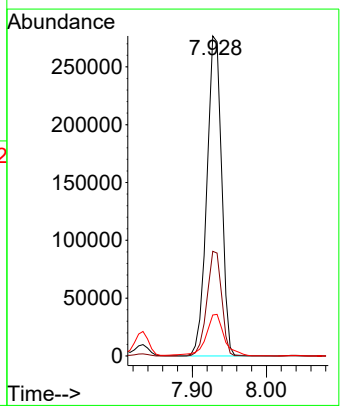


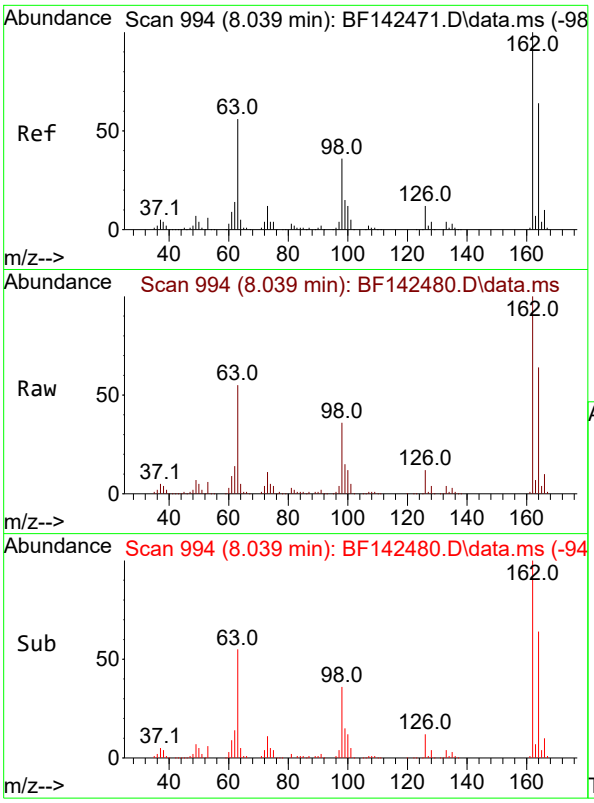


#28
bis(2-Chloroethoxy)methane
Concen: 40.438 ng
RT: 7.928 min Scan# 975
Delta R.T. -0.012 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion: 93 Resp: 383733

Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.4	39.6
123	12.8	10.6	15.8



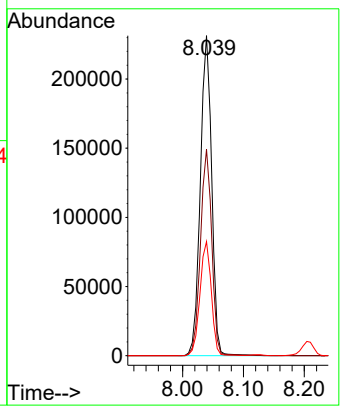


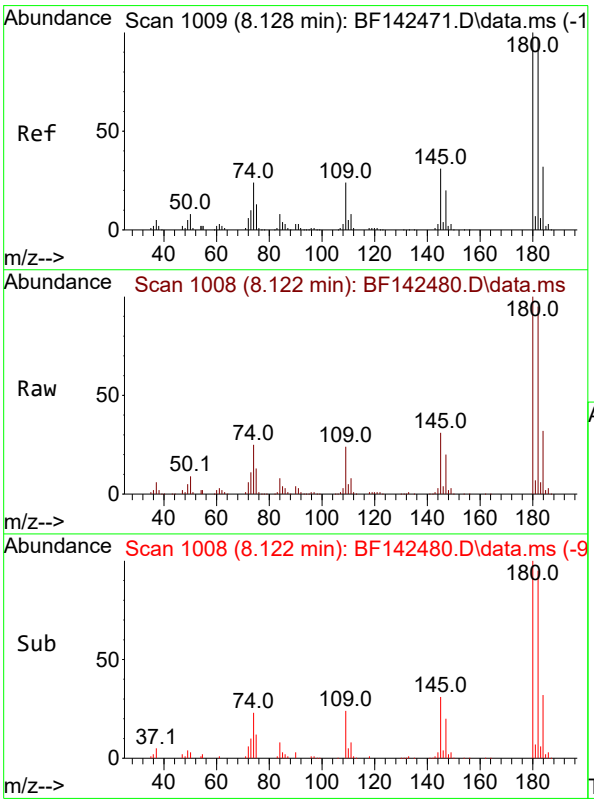
#29
2,4-Dichlorophenol
Concen: 42.499 ng
RT: 8.039 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:162 Resp: 298440

Ion	Ratio	Lower	Upper
162	100		
164	64.5	43.7	83.7
98	35.7	15.5	55.5

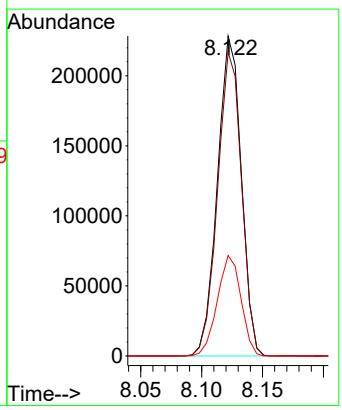


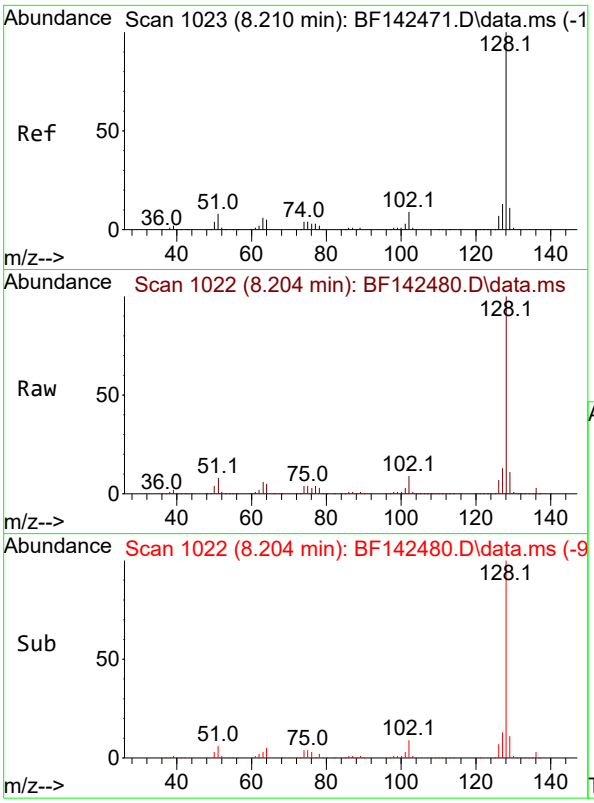


#30
1,2,4-Trichlorobenzene
Concen: 40.804 ng
RT: 8.122 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:180 Resp: 310974

Ion	Ratio	Lower	Upper
180	100		
182	95.0	78.0	117.0
145	31.4	25.0	37.6



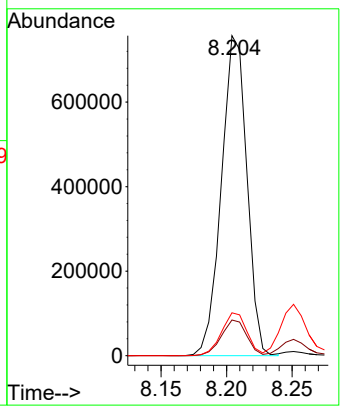


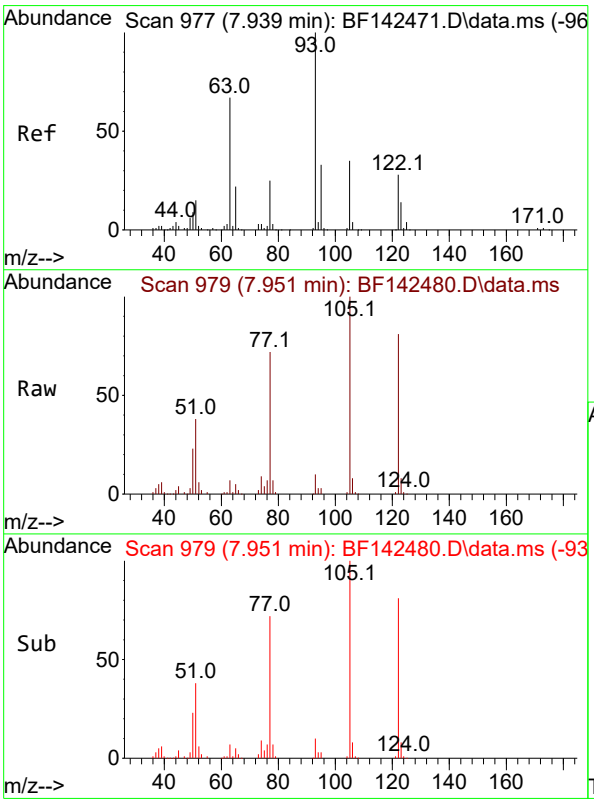
#31
Naphthalene
Concen: 41.950 ng
RT: 8.204 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:128 Resp: 1023370

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.4	10.5	15.7

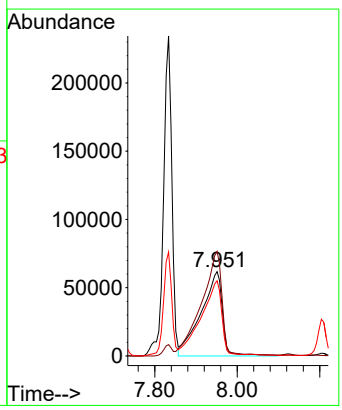


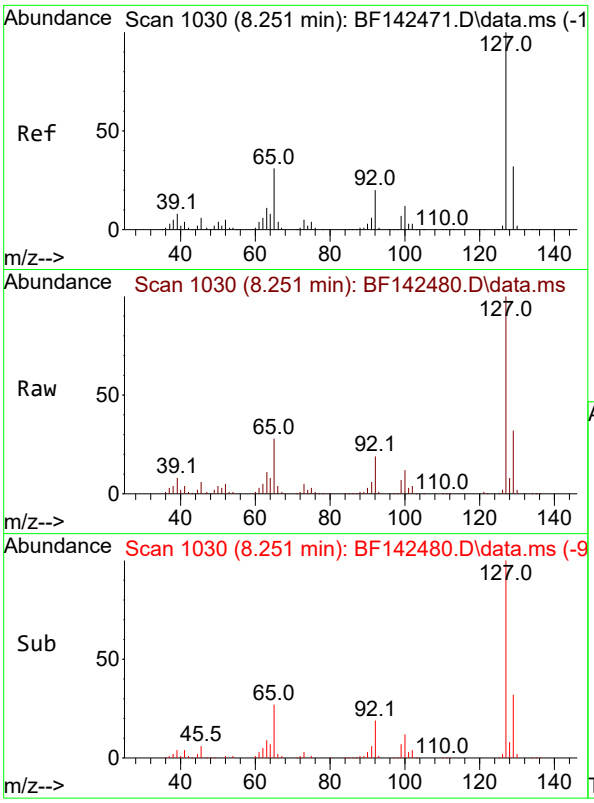


#32
Benzoic acid
Concen: 47.620 ng m
RT: 7.951 min Scan# 979
Delta R.T. -0.024 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:122 Resp: 223837

Ion	Ratio	Lower	Upper
122	100		
105	124.1	101.7	141.7
77	89.2	69.5	109.5



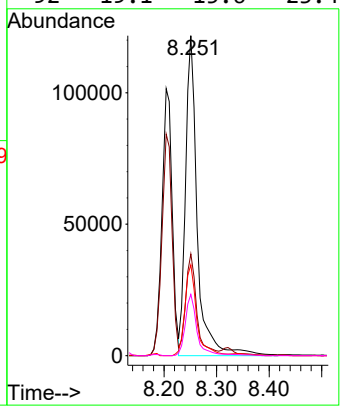


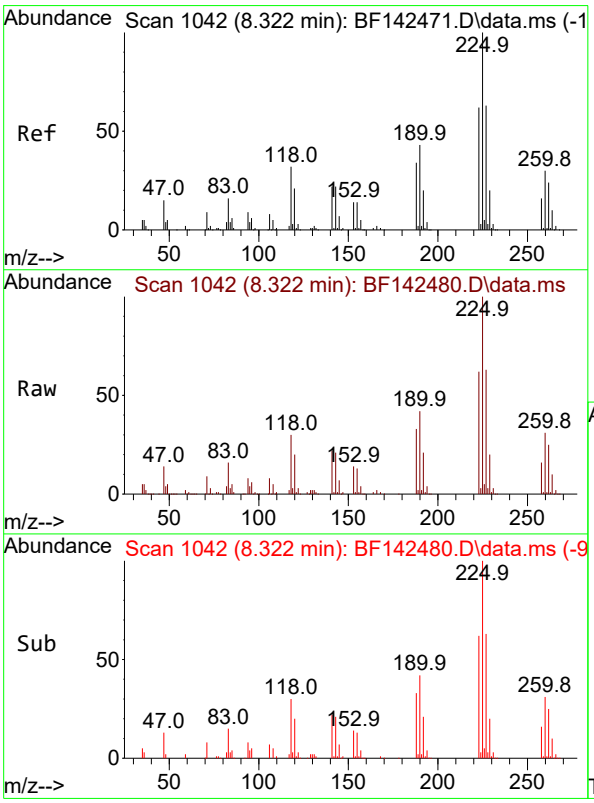
#33
4-Chloroaniline
Concen: 19.138 ng m
RT: 8.251 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:127 Resp: 189181

Ion	Ratio	Lower	Upper
127	100		
129	31.8	26.1	39.1
65	28.4	24.9	37.3
92	19.1	15.6	23.4

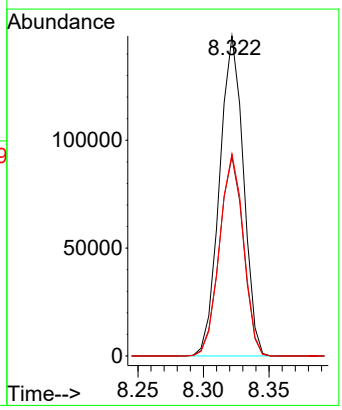


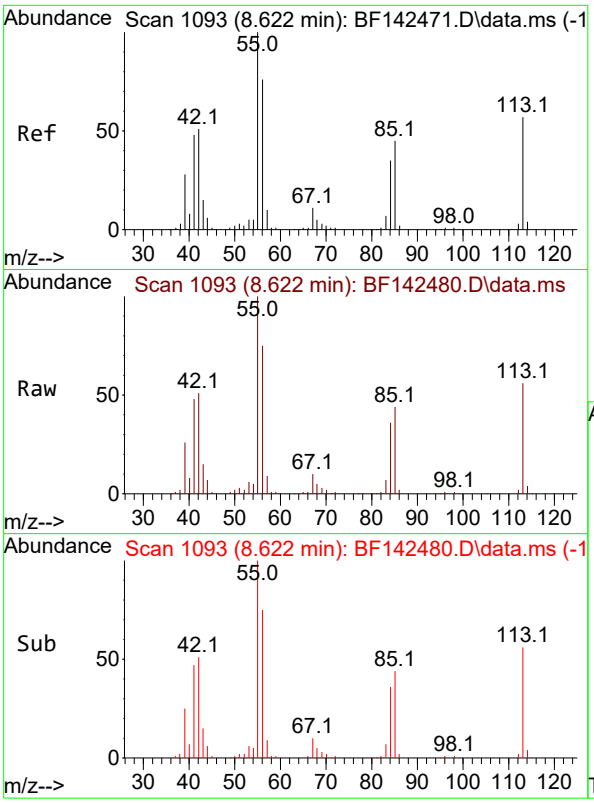


#34
Hexachlorobutadiene
Concen: 39.483 ng
RT: 8.322 min Scan# 1042
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:225 Resp: 187885

Ion	Ratio	Lower	Upper
225	100		
223	62.2	49.7	74.5
227	63.2	50.3	75.5



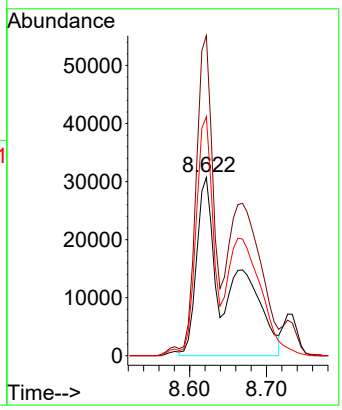


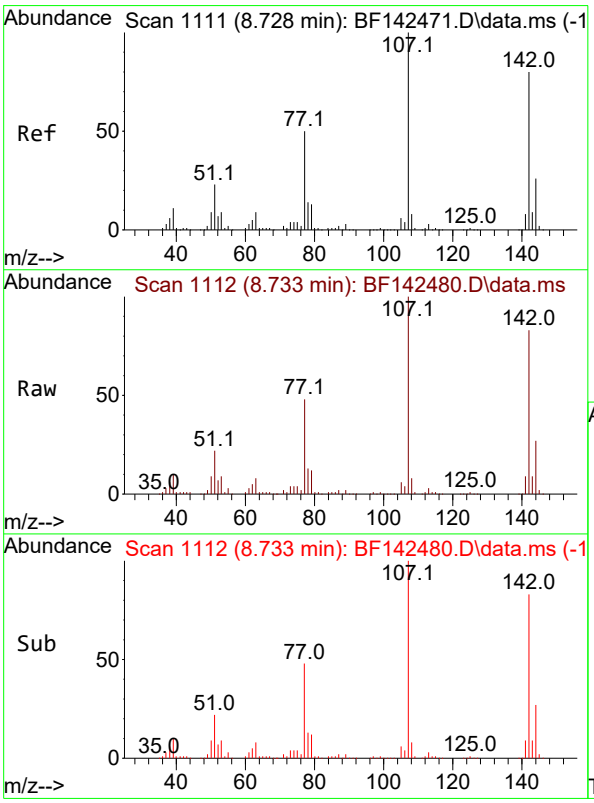
#35
Caprolactam
Concen: 46.005 ng m
RT: 8.622 min Scan# 1
Delta R.T. -0.024 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:113 Resp: 90734

Ion	Ratio	Lower	Upper
113	100		
55	179.5	154.7	194.7
56	134.1	113.2	153.2

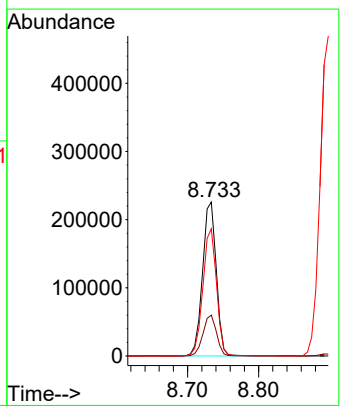


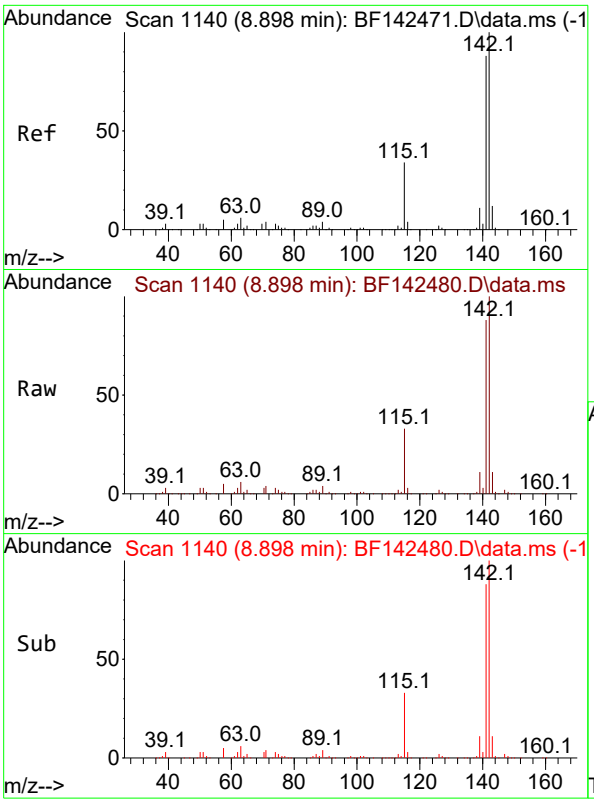


#36
4-Chloro-3-methylphenol
Concen: 42.286 ng
RT: 8.733 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:107 Resp: 304323

Ion	Ratio	Lower	Upper
107	100		
144	26.5	20.9	31.3
142	82.6	64.2	96.2



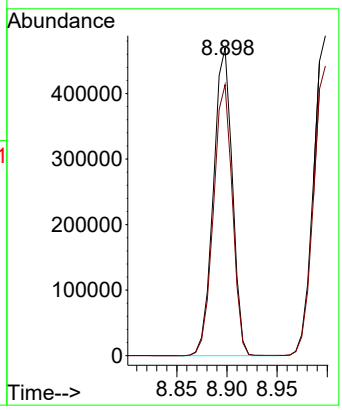


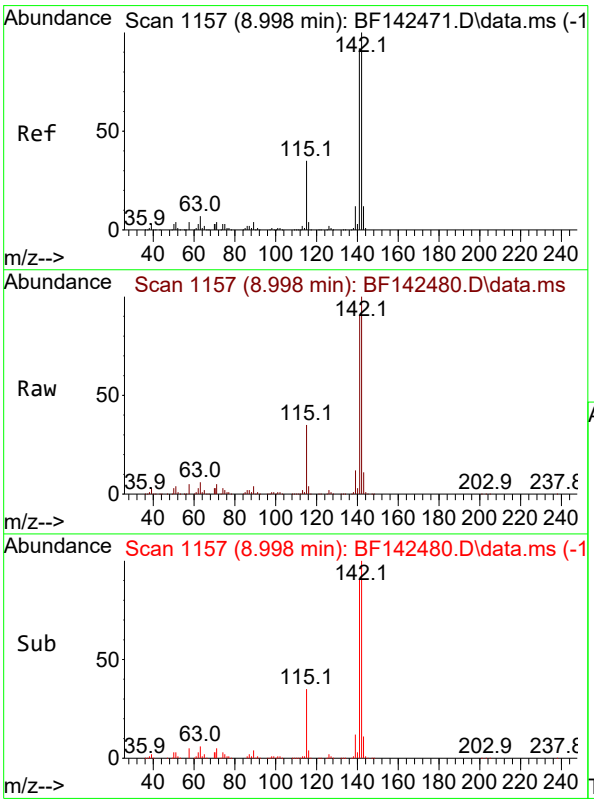
#37
2-Methylnaphthalene
Concen: 40.049 ng
RT: 8.898 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:142 Resp: 614650

Ion	Ratio	Lower	Upper
142	100		
141	88.1	70.7	106.1

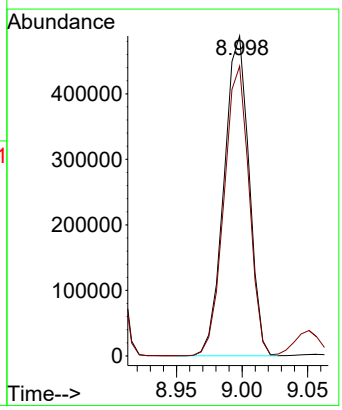


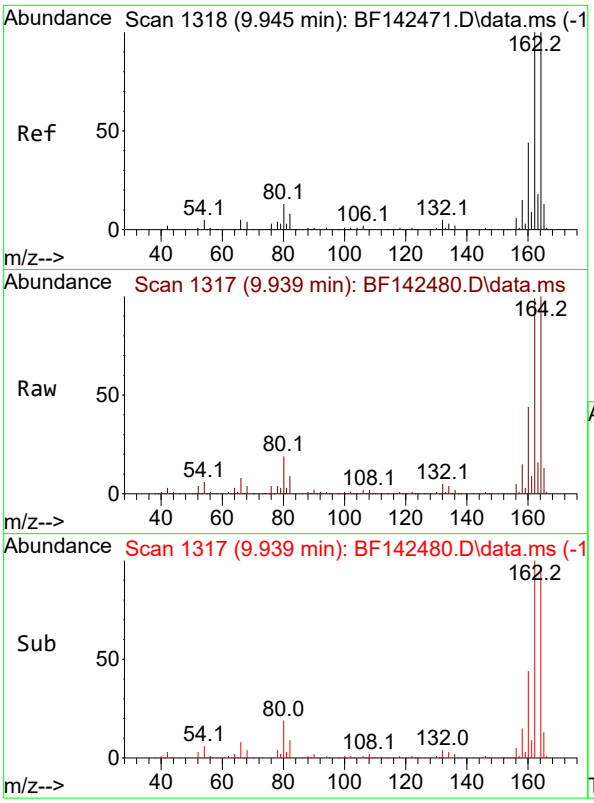


#38
1-Methylnaphthalene
Concen: 40.800 ng
RT: 8.998 min Scan# 1157
Delta R.T. 0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:142 Resp: 647702

Ion	Ratio	Lower	Upper
142	100		
141	90.6	73.4	110.2



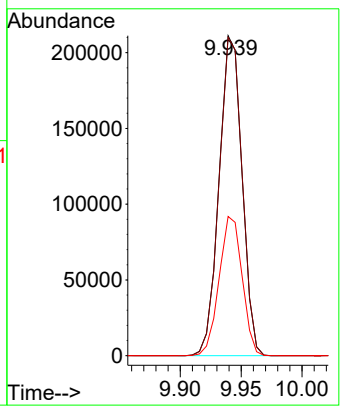


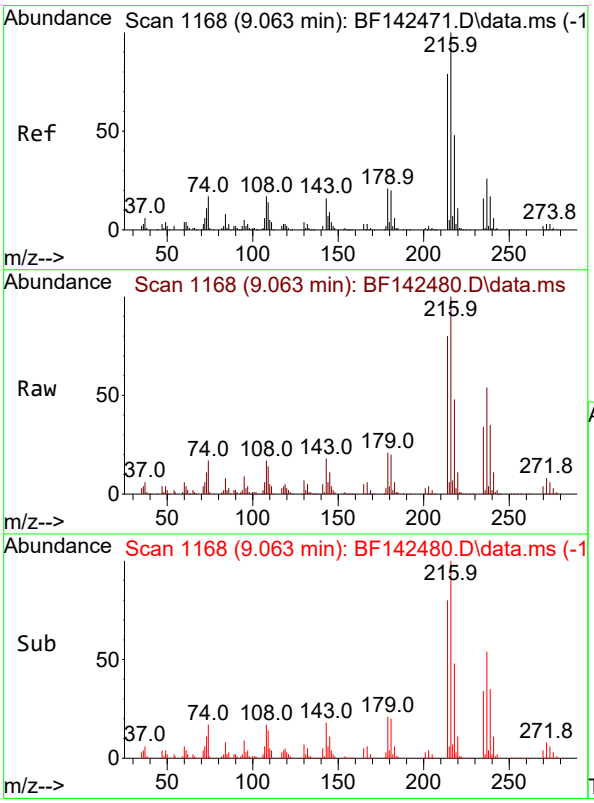
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:164 Resp: 277044

Ion	Ratio	Lower	Upper
164	100		
162	99.5	80.2	120.4
160	43.5	35.6	53.4

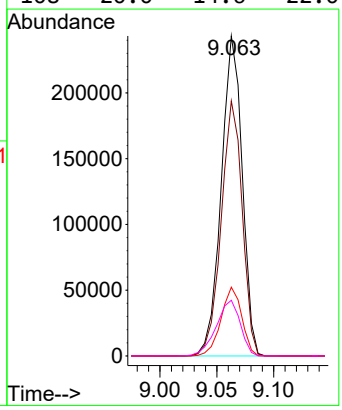


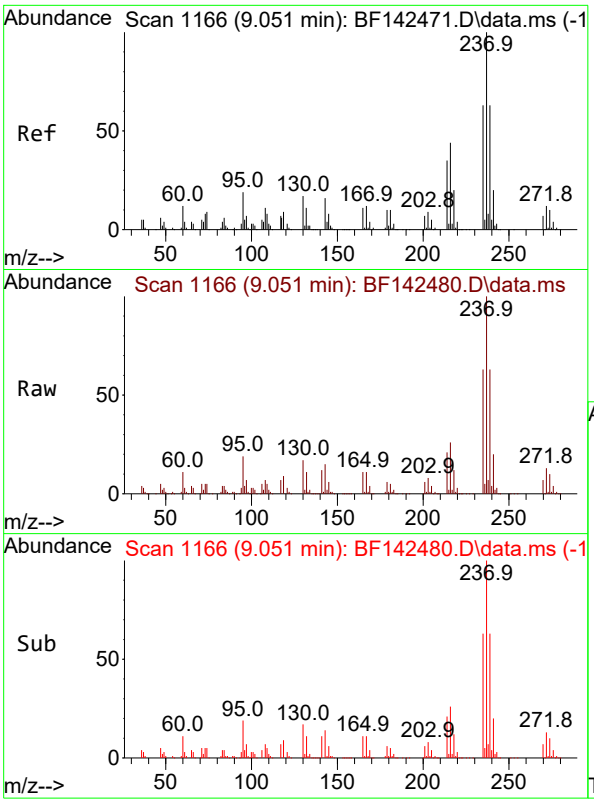


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.302 ng
RT: 9.063 min Scan# 1168
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:216 Resp: 312557

Ion	Ratio	Lower	Upper
216	100		
214	79.7	62.9	94.3
179	21.2	16.9	25.3
108	20.0	14.6	22.0



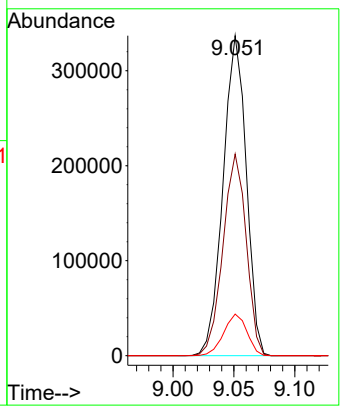


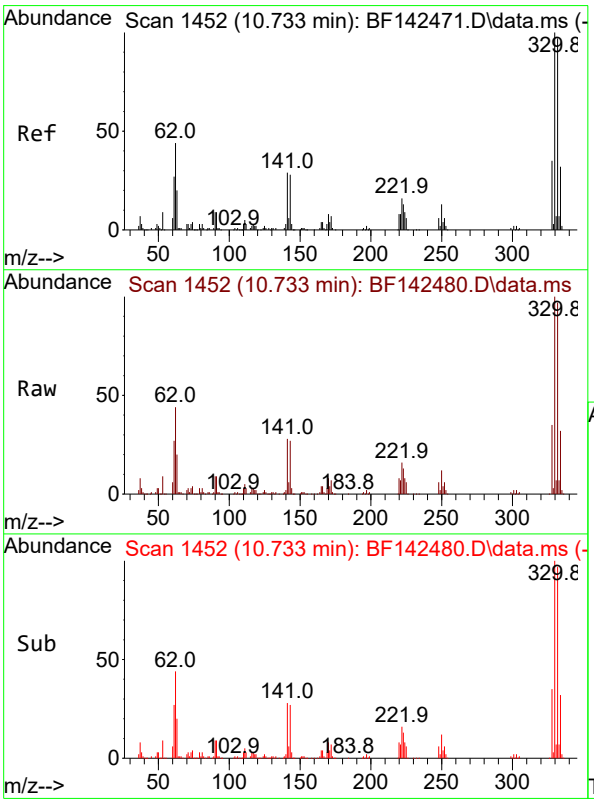
#41
Hexachlorocyclopentadiene
Concen: 83.232 ng
RT: 9.051 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:237 Resp: 446528

Ion	Ratio	Lower	Upper
237	100		
235	63.0	43.3	83.3
272	13.0	0.0	32.4

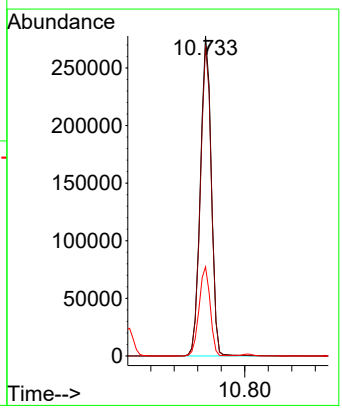


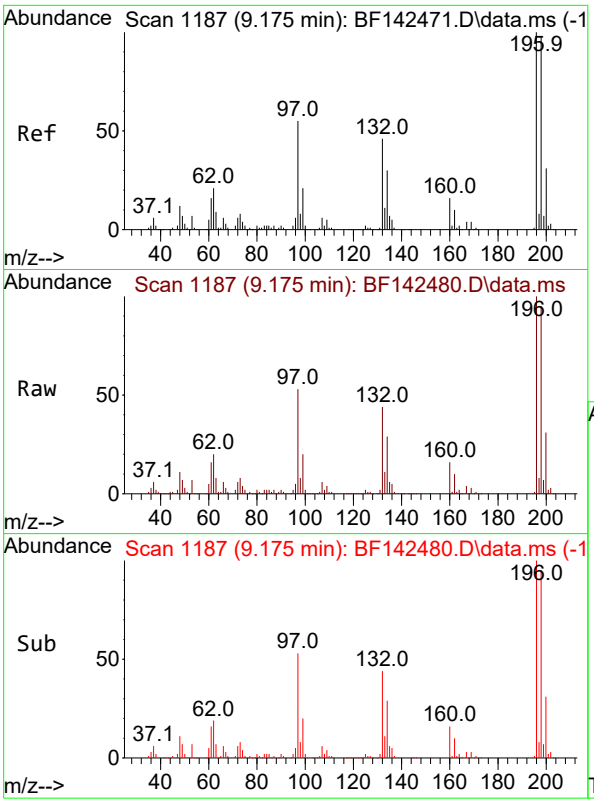


#42
2,4,6-Tribromophenol
Concen: 116.889 ng
RT: 10.733 min Scan# 1452
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:330 Resp: 359414

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.6	116.4
141	28.3	24.6	36.8



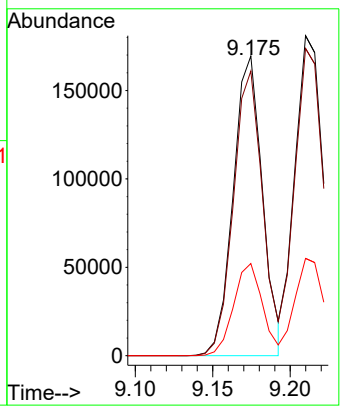


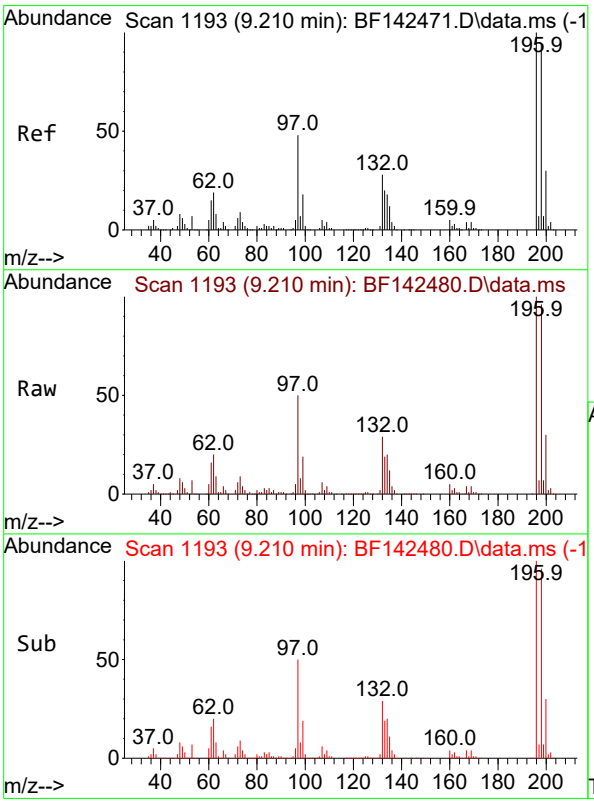
#43
2,4,6-Trichlorophenol
Concen: 41.439 ng
RT: 9.175 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:196 Resp: 222225

Ion	Ratio	Lower	Upper
196	100		
198	95.0	78.8	118.2
200	30.8	24.9	37.3

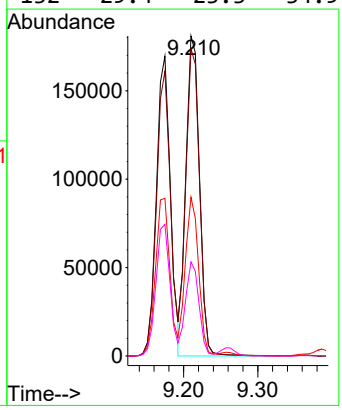


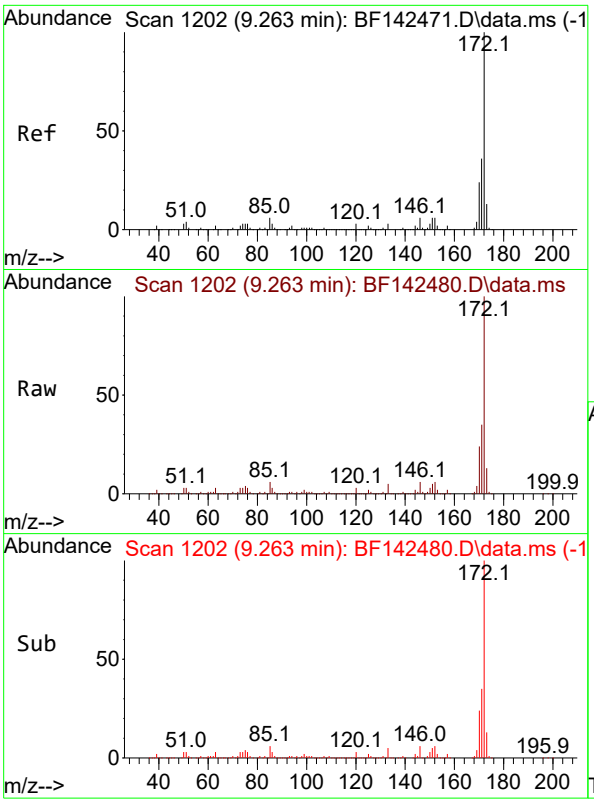


#44
2,4,5-Trichlorophenol
Concen: 41.201 ng
RT: 9.210 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:196 Resp: 233019

Ion	Ratio	Lower	Upper
196	100		
198	96.0	75.5	113.3
97	49.6	39.3	58.9
132	29.4	23.3	34.9



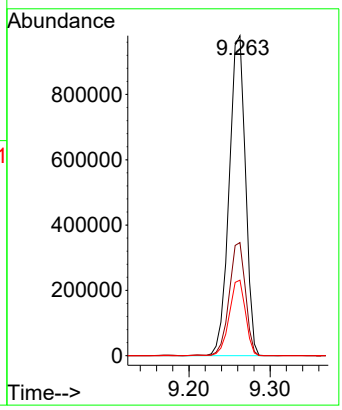


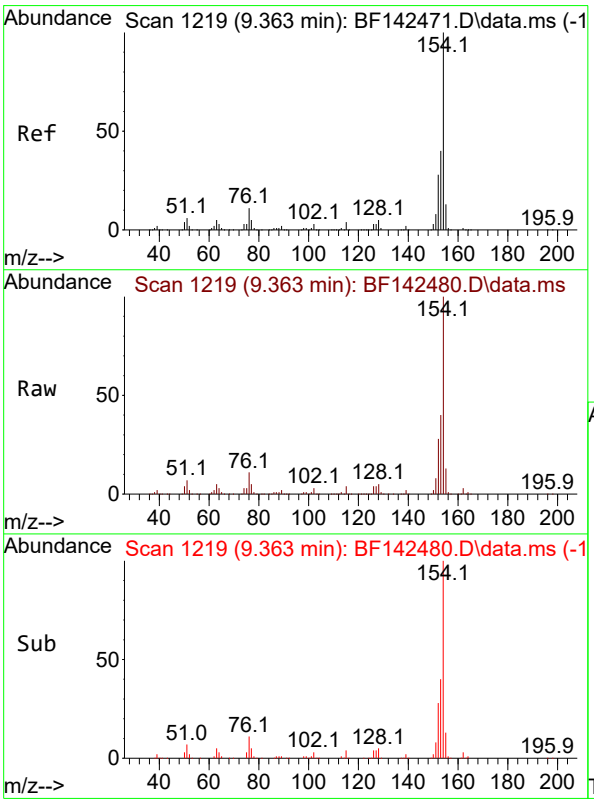
#45
2-Fluorobiphenyl
Concen: 66.043 ng
RT: 9.263 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:172 Resp: 1363534

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	42.8
170	23.6	18.9	28.3

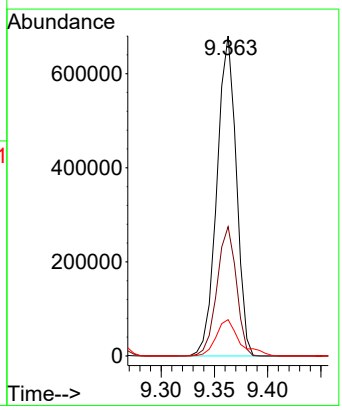


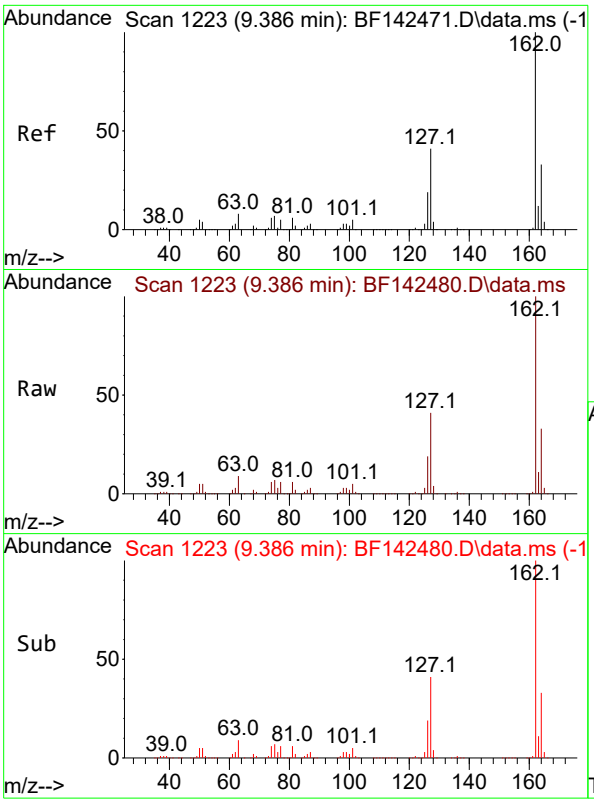


#46
1,1'-Biphenyl
Concen: 39.968 ng
RT: 9.363 min Scan# 1219
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:154 Resp: 859058

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.4	60.4
76	11.3	0.0	30.8



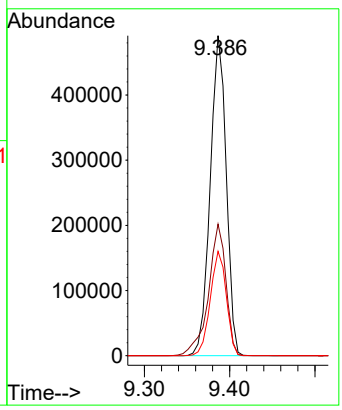


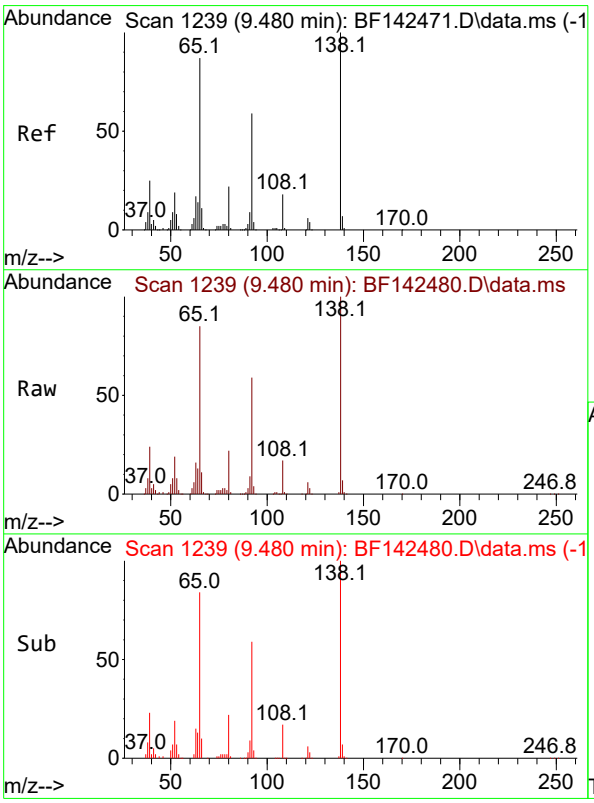
#47
2-Chloronaphthalene
Concen: 40.382 ng
RT: 9.386 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:162 Resp: 641274

Ion	Ratio	Lower	Upper
162	100		
127	41.1	33.5	50.3
164	32.6	26.1	39.1

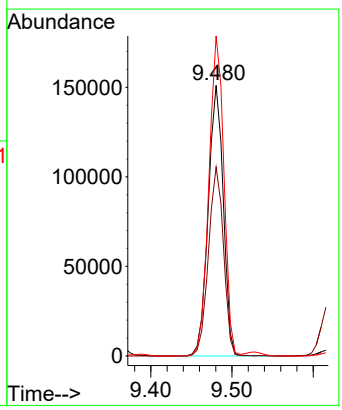


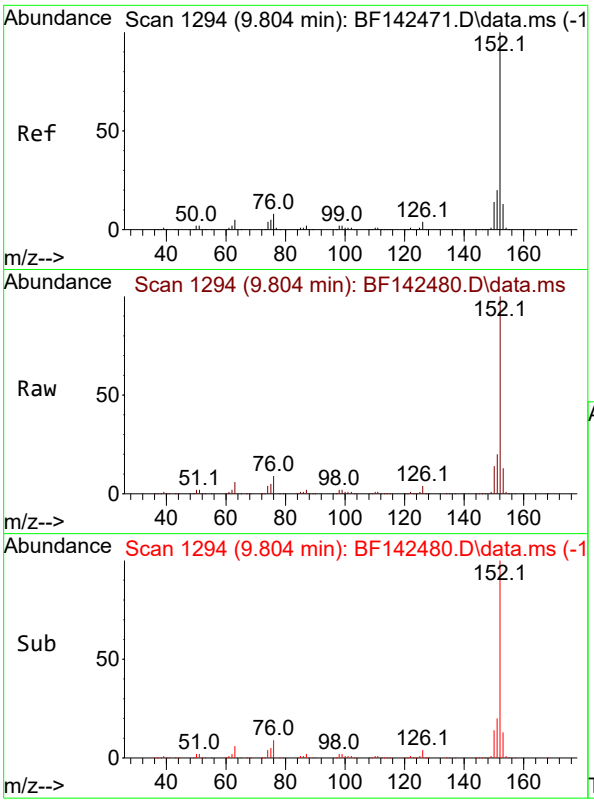


#48
2-Nitroaniline
Concen: 42.297 ng
RT: 9.480 min Scan# 1239
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion: 65 Resp: 194148

Ion	Ratio	Lower	Upper
65	100		
92	69.8	54.4	81.6
138	118.3	91.4	137.2



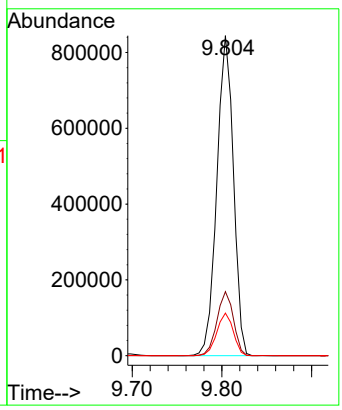


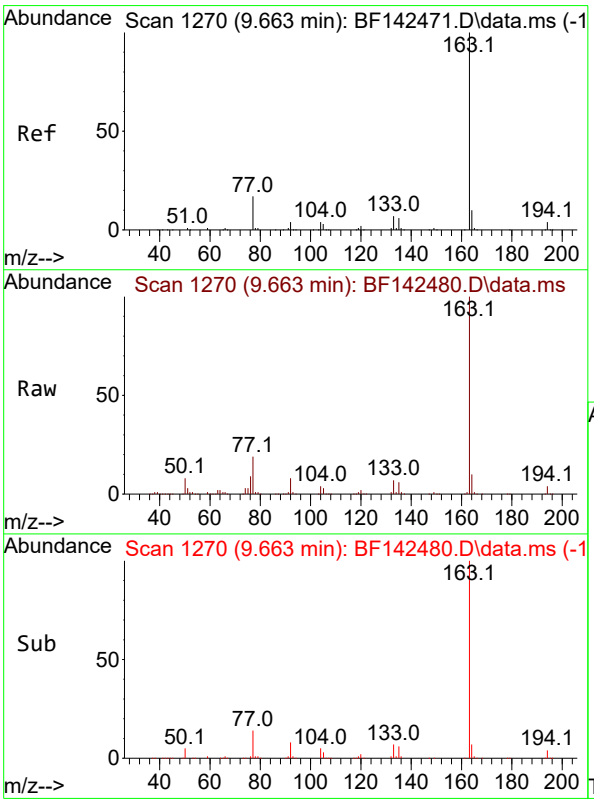
#49
Acenaphthylene
Concen: 40.366 ng
RT: 9.804 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:152 Resp: 1082413

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.8
153	13.3	10.6	15.8

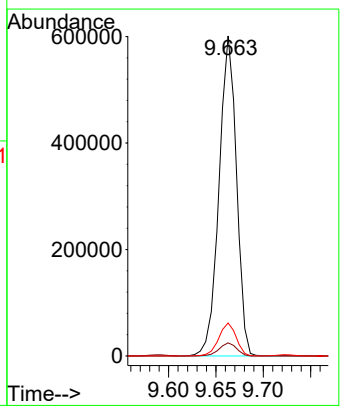


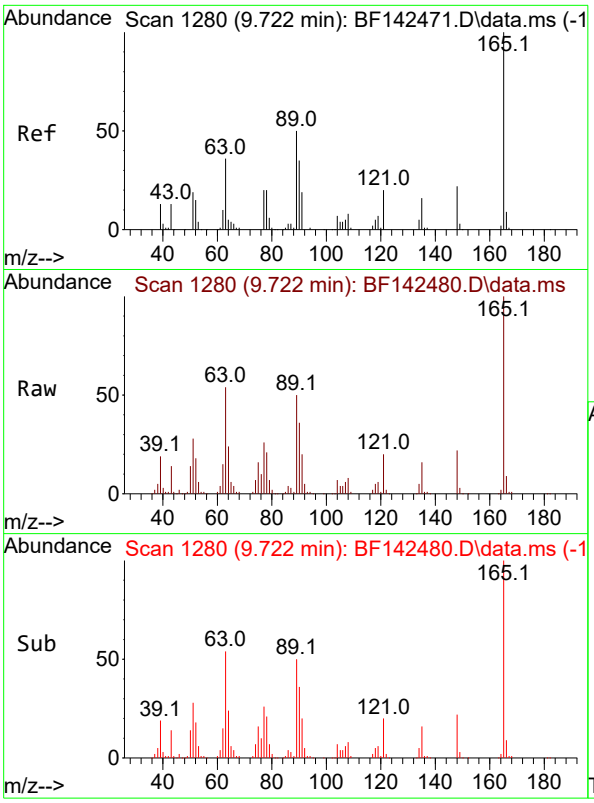


#50
Dimethylphthalate
Concen: 42.246 ng
RT: 9.663 min Scan# 1270
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:163 Resp: 772268

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.3	4.9
164	10.3	8.2	12.4



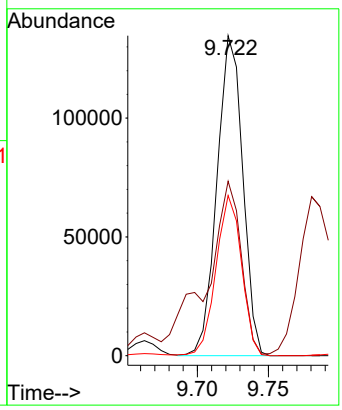


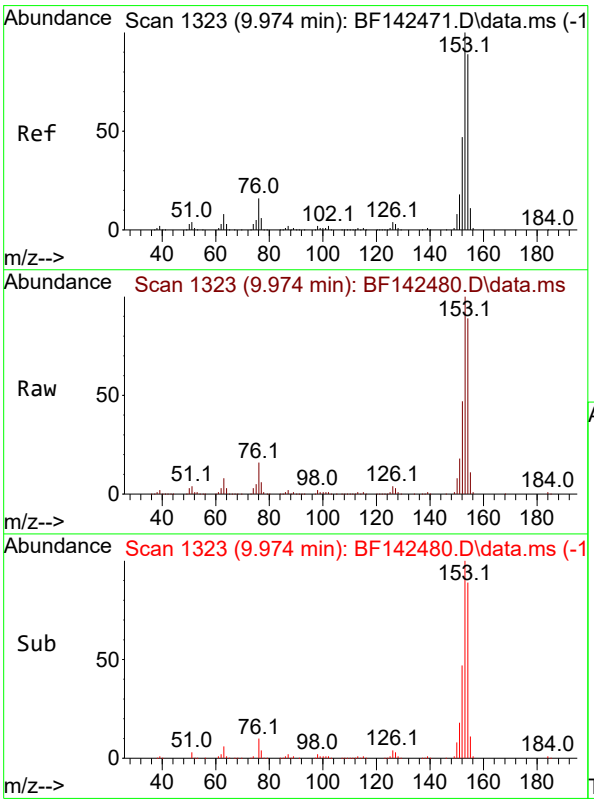
#51
2,6-Dinitrotoluene
Concen: 43.080 ng
RT: 9.722 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:165 Resp: 169971

Ion	Ratio	Lower	Upper
165	100		
63	54.5	42.9	64.3
89	50.0	40.2	60.4

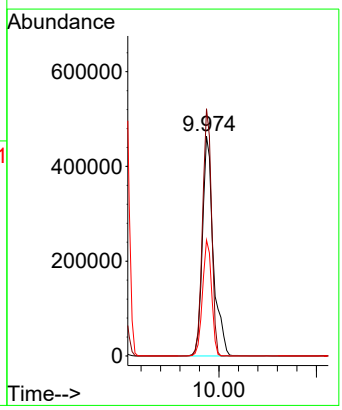


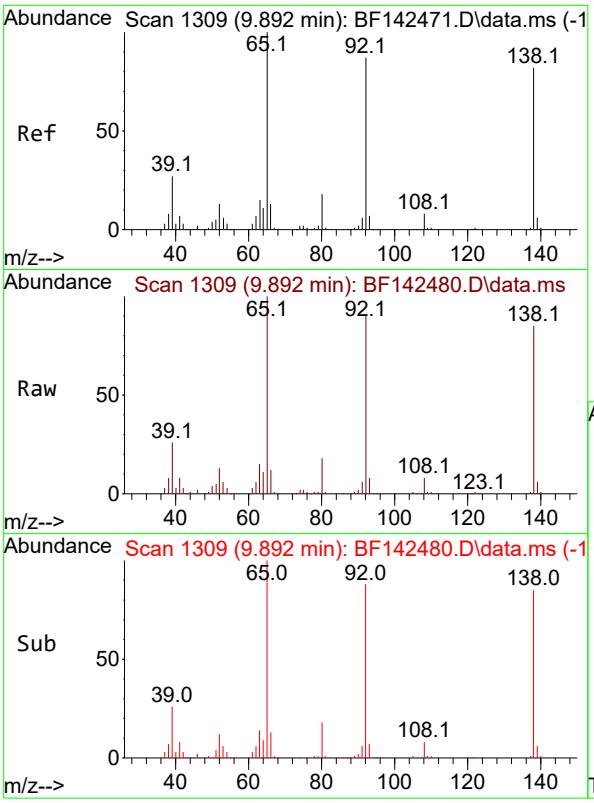


#52
Acenaphthene
Concen: 43.769 ng
RT: 9.974 min Scan# 1323
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:154 Resp: 716666

Ion	Ratio	Lower	Upper
154	100		
153	112.5	90.0	135.0
152	52.7	42.6	64.0



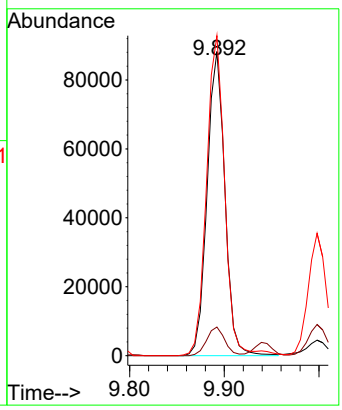


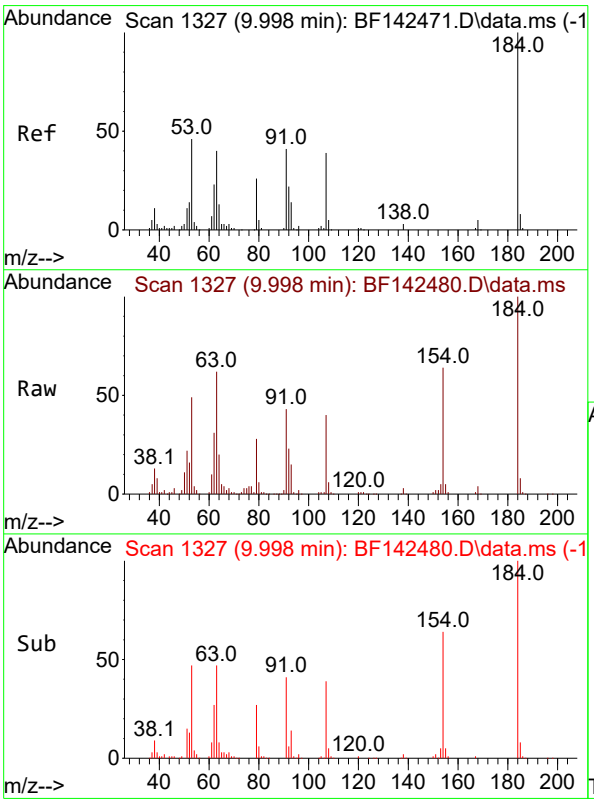
#53
3-Nitroaniline
Concen: 26.768 ng
RT: 9.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:138 Resp: 115354

Ion	Ratio	Lower	Upper
138	100		
108	9.4	8.1	12.1
92	105.2	85.2	127.8

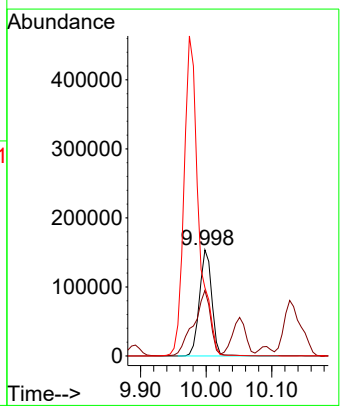


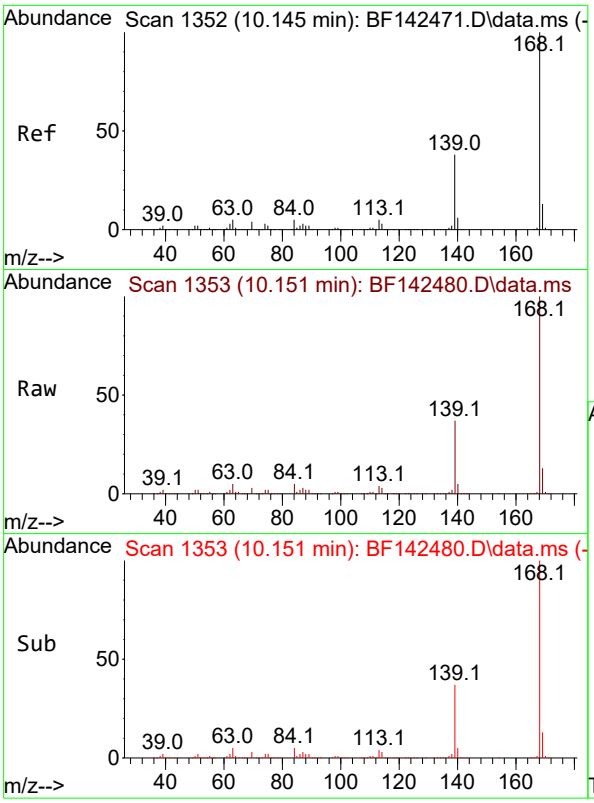


#54
2,4-Dinitrophenol
Concen: 99.019 ng
RT: 9.998 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:184 Resp: 201837

Ion	Ratio	Lower	Upper
184	100		
63	61.6	46.3	69.5
154	64.4	56.8	85.2



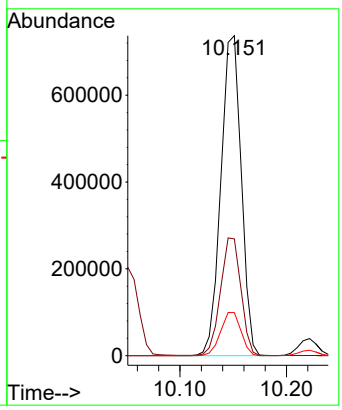


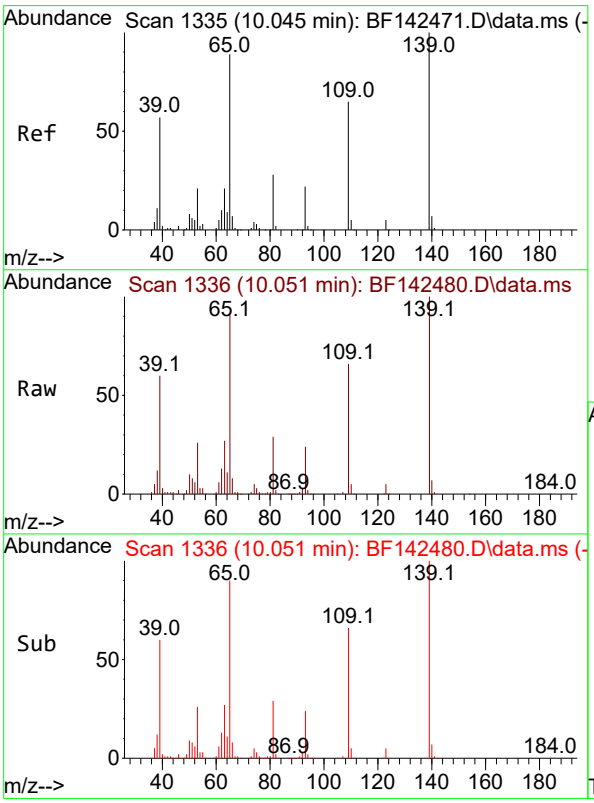
#55
Dibenzofuran
Concen: 41.535 ng
RT: 10.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:168 Resp: 978668

Ion	Ratio	Lower	Upper
168	100		
139	36.5	30.2	45.2
169	13.4	10.7	16.1

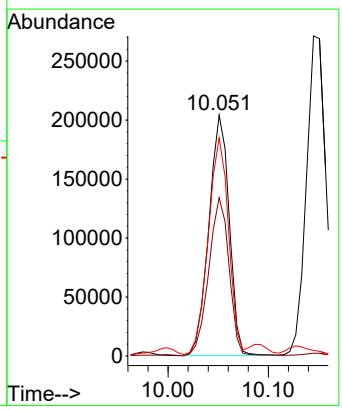


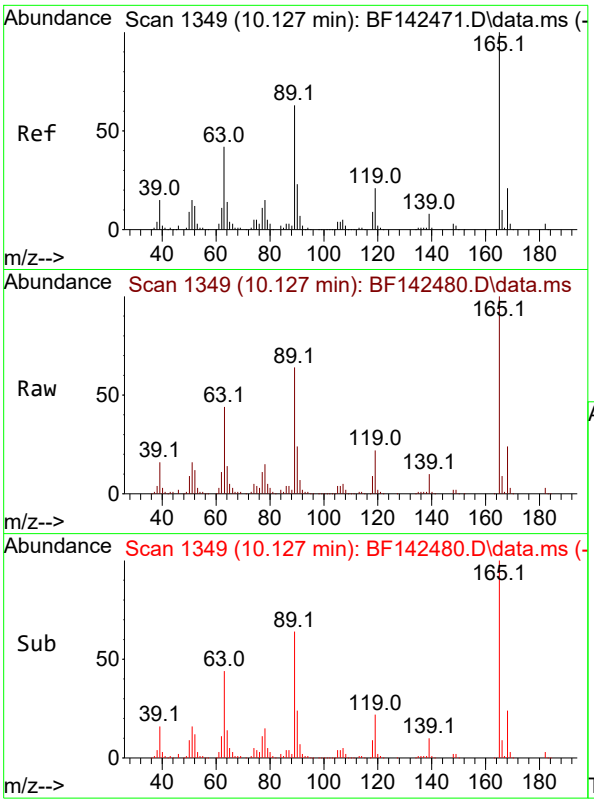


#56
4-Nitrophenol
Concen: 90.703 ng
RT: 10.051 min Scan# 1336
Delta R.T. -0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:139 Resp: 288407

Ion	Ratio	Lower	Upper
139	100		
109	65.7	45.1	85.1
65	90.6	69.7	109.7



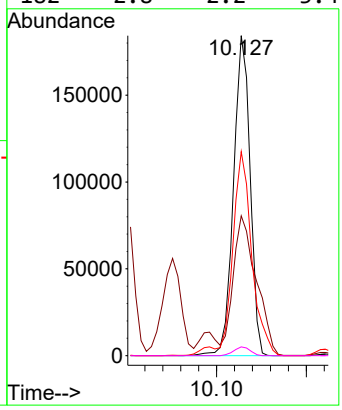


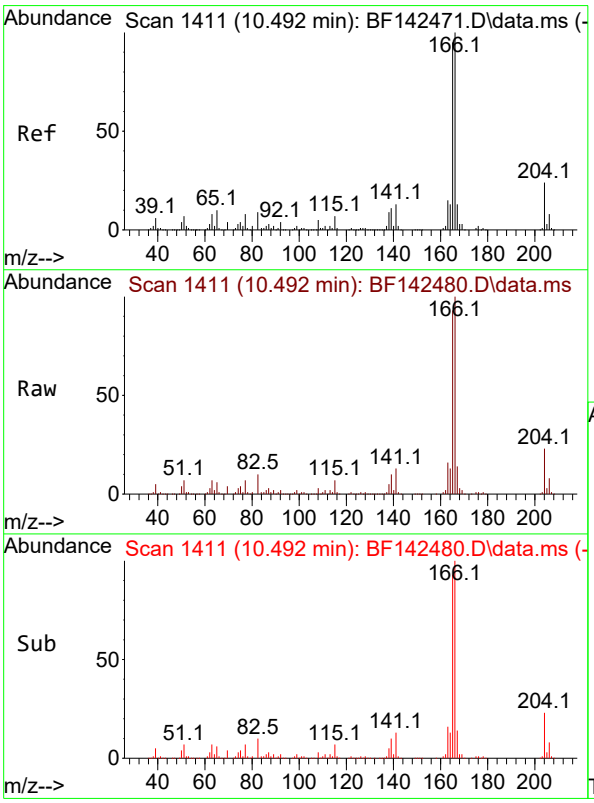
#57
2,4-Dinitrotoluene
Concen: 45.916 ng
RT: 10.127 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:165 Resp: 236587

Ion	Ratio	Lower	Upper
165	100		
63	43.7	33.6	50.4
89	63.7	50.2	75.4
182	2.8	2.2	3.4

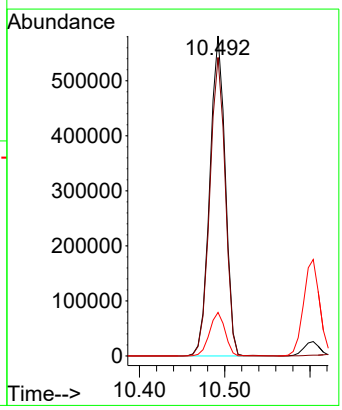


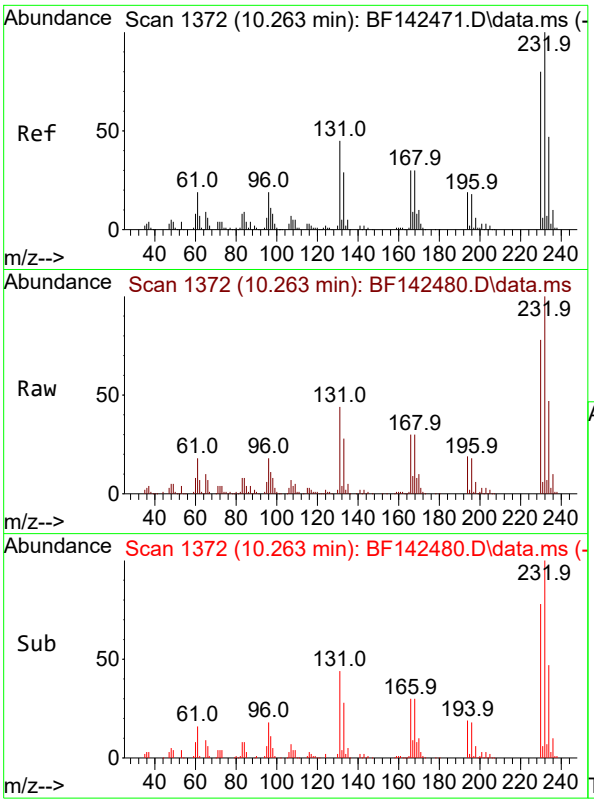


#58
Fluorene
Concen: 40.185 ng
RT: 10.492 min Scan# 1411
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:166 Resp: 731497

Ion	Ratio	Lower	Upper
166	100		
165	93.3	75.8	113.8
167	13.6	10.6	16.0



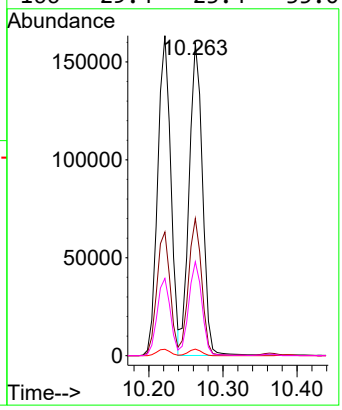


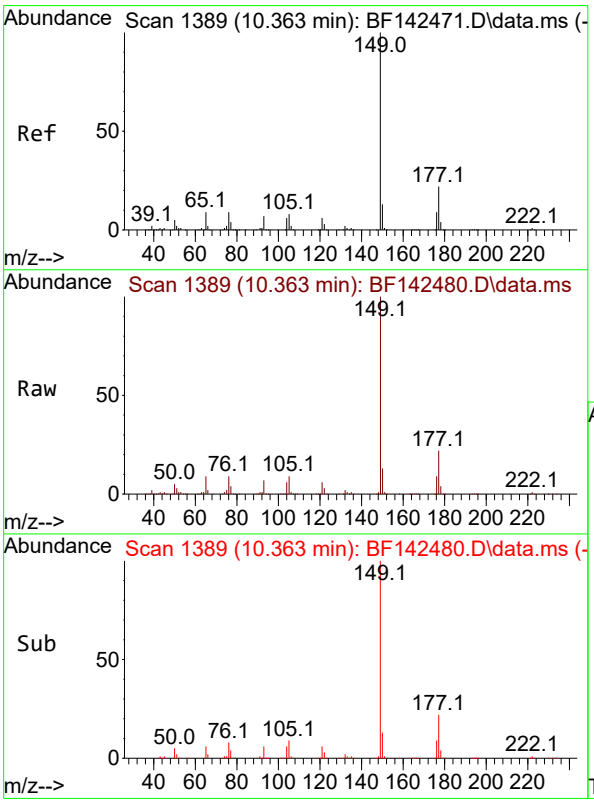
#59
2,3,4,6-Tetrachlorophenol
Concen: 42.269 ng
RT: 10.263 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:232 Resp: 199574

Ion	Ratio	Lower	Upper
232	100		
131	43.3	35.2	52.8
130	2.1	1.7	2.5
166	29.4	23.4	35.0

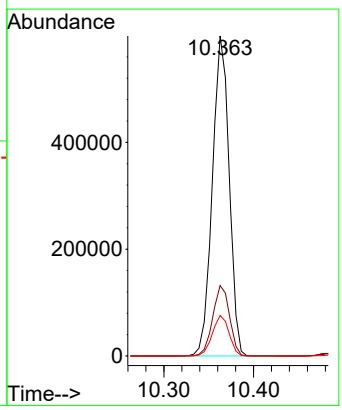


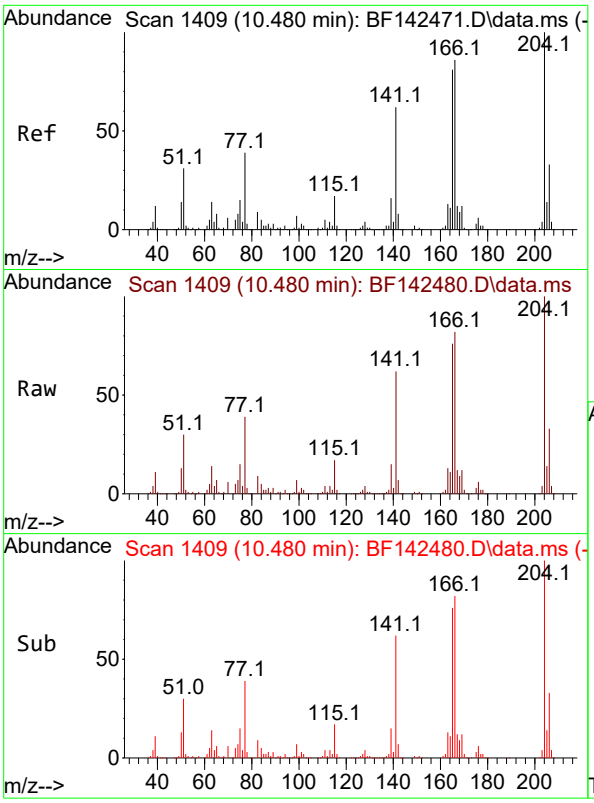


#60
Diethylphthalate
Concen: 43.590 ng
RT: 10.363 min Scan# 1389
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:149 Resp: 778235

Ion	Ratio	Lower	Upper
149	100		
177	22.0	17.6	26.4
150	12.7	10.1	15.1



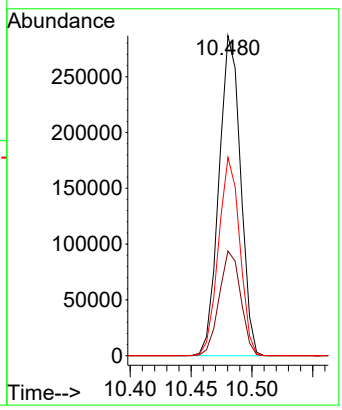


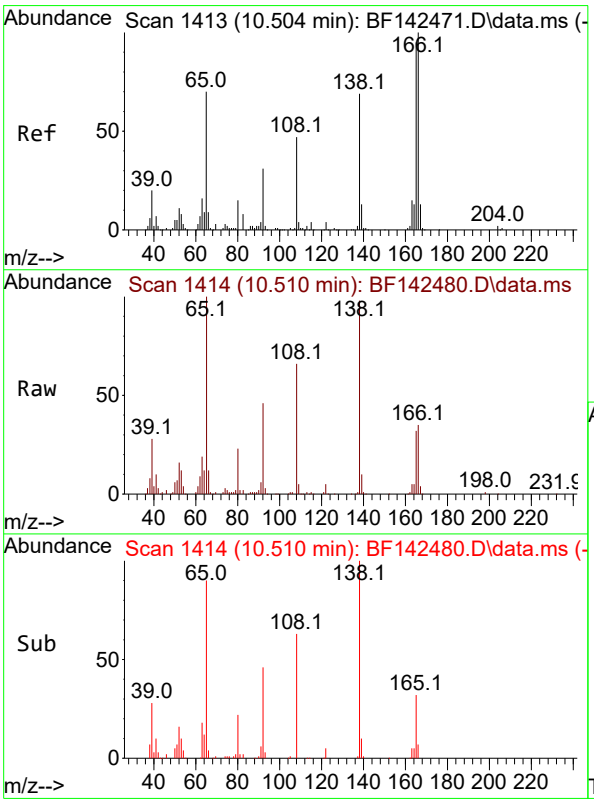
#61
4-Chlorophenyl-phenylether
Concen: 39.581 ng
RT: 10.480 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:204 Resp: 353935

Ion	Ratio	Lower	Upper
204	100		
206	32.7	26.3	39.5
141	62.0	49.5	74.3

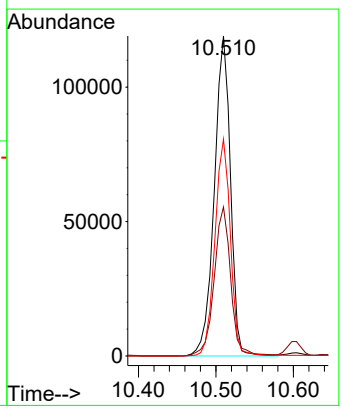


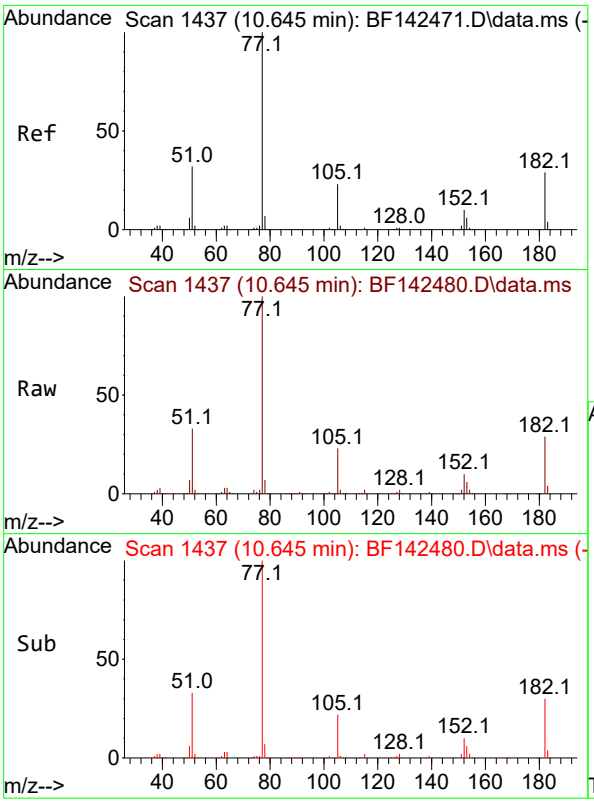


#62
4-Nitroaniline
Concen: 44.166 ng
RT: 10.510 min Scan# 1414
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:138 Resp: 172618

Ion	Ratio	Lower	Upper
138	100		
92	46.6	26.0	66.0
108	67.7	48.4	88.4



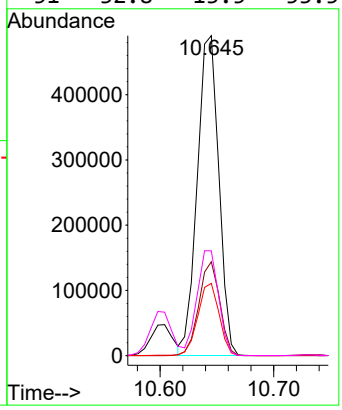


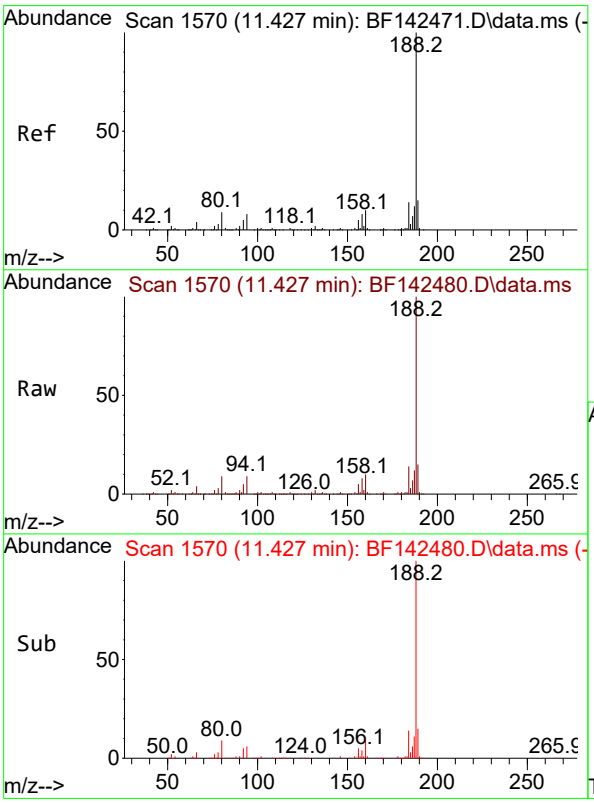
#63
Azobenzene
Concen: 40.325 ng
RT: 10.645 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion: 77 Resp: 646640

Ion	Ratio	Lower	Upper
77	100		
182	29.4	9.0	49.0
105	22.6	2.4	42.4
51	32.8	13.5	53.5

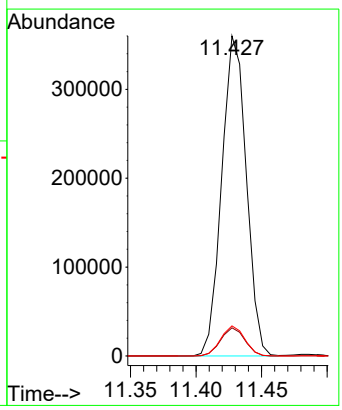


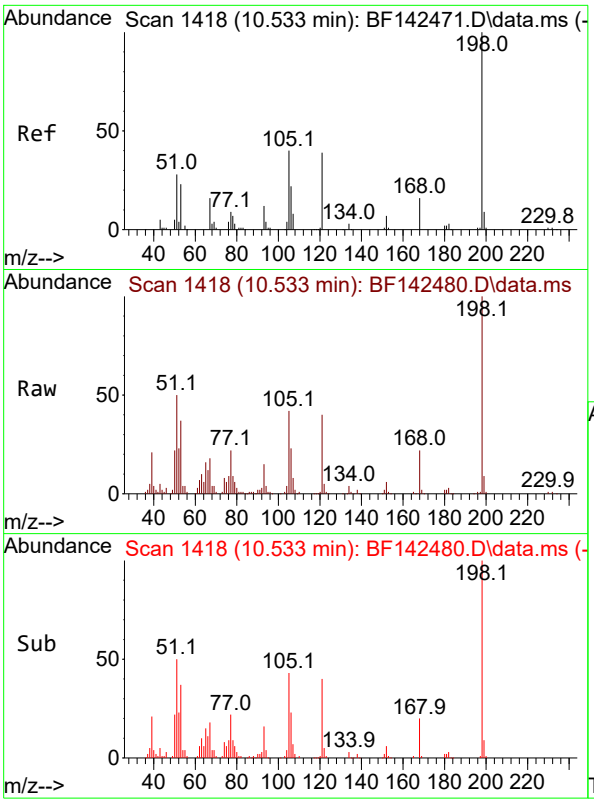


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:188 Resp: 468851

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.6	10.0
80	9.4	7.4	11.0



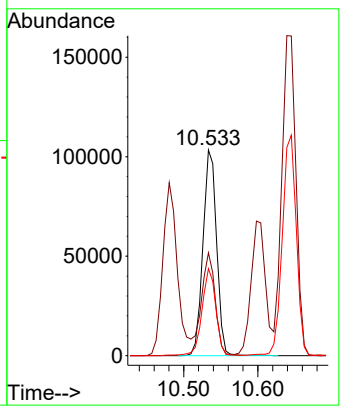


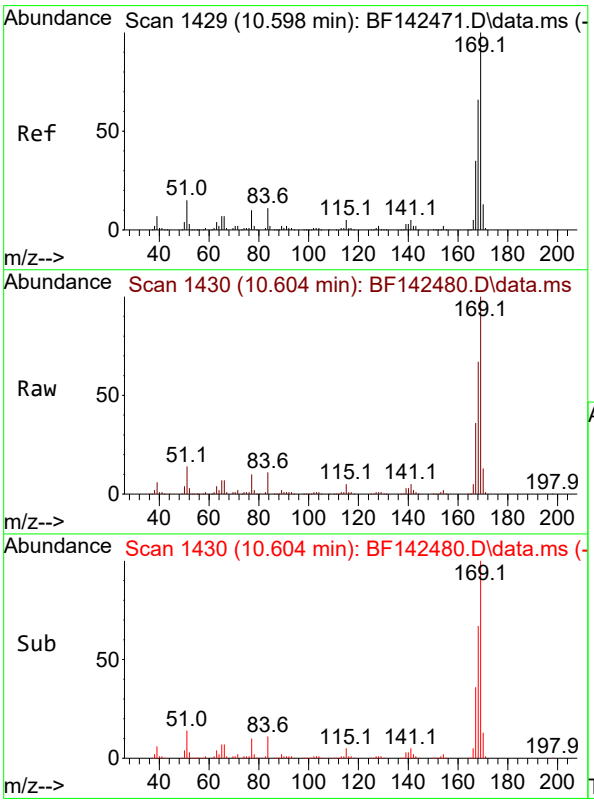
#65
4,6-Dinitro-2-methylphenol
Concen: 50.477 ng
RT: 10.533 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:198 Resp: 132075

Ion	Ratio	Lower	Upper
198	100		
51	50.0	28.3	68.3
105	42.3	21.3	61.3

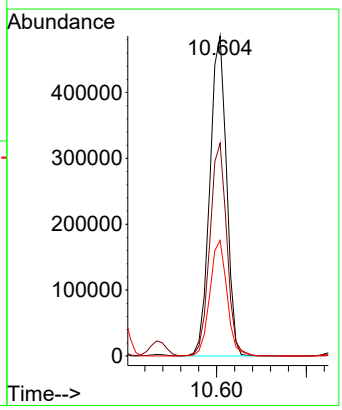


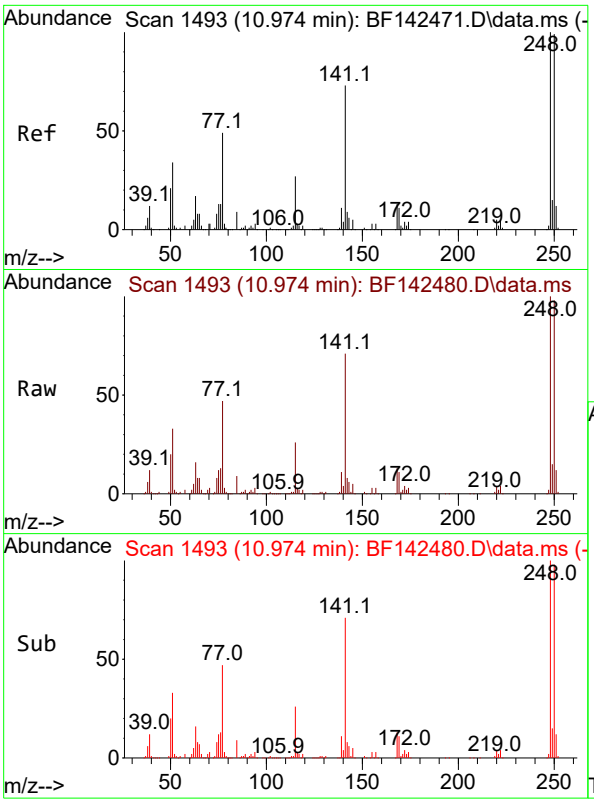


#66
n-Nitrosodiphenylamine
Concen: 38.986 ng
RT: 10.604 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:169 Resp: 625355

Ion	Ratio	Lower	Upper
169	100		
168	66.5	52.7	79.1
167	36.1	28.3	42.5



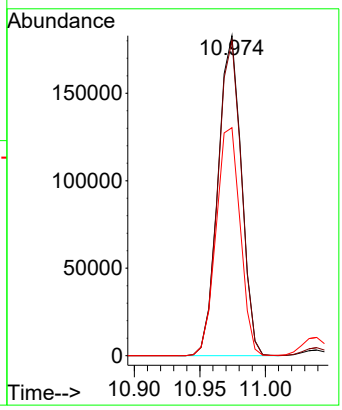


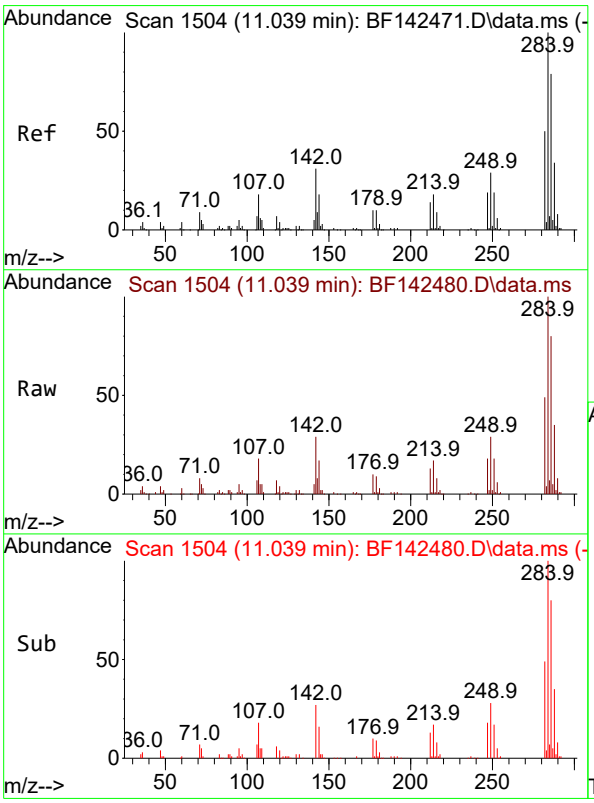
#67
4-Bromophenyl-phenylether
Concen: 40.947 ng
RT: 10.974 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:248 Resp: 227003

Ion	Ratio	Lower	Upper
248	100		
250	98.4	79.0	118.4
141	71.3	58.4	87.6

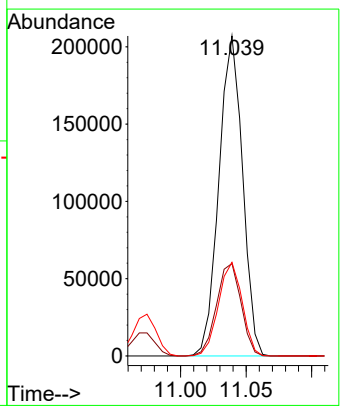


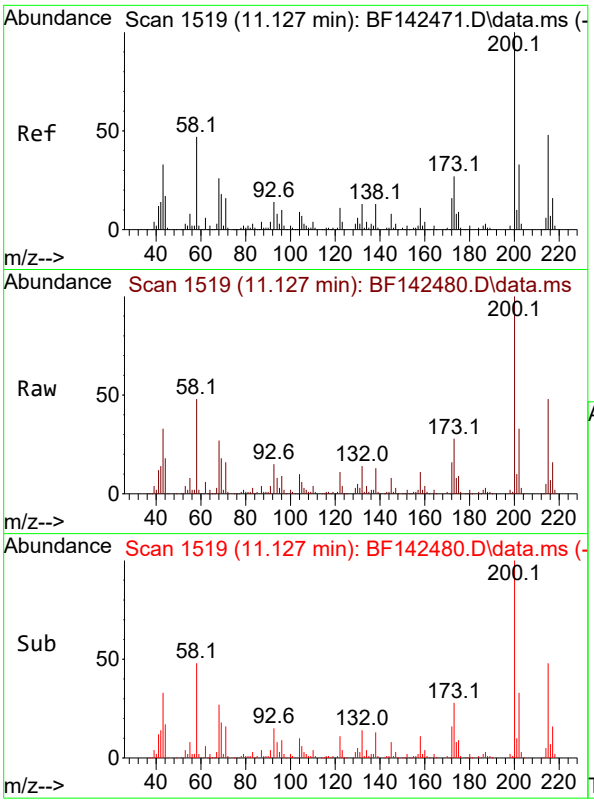


#68
Hexachlorobenzene
Concen: 42.297 ng
RT: 11.039 min Scan# 1504
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:284 Resp: 259350

Ion	Ratio	Lower	Upper
284	100		
142	28.9	24.8	37.2
249	29.2	23.6	35.4



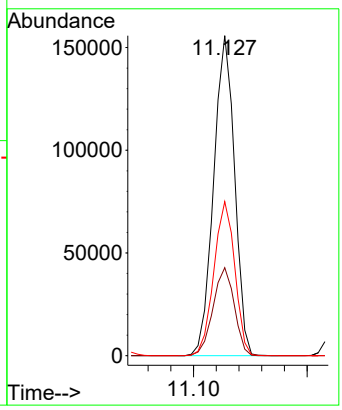


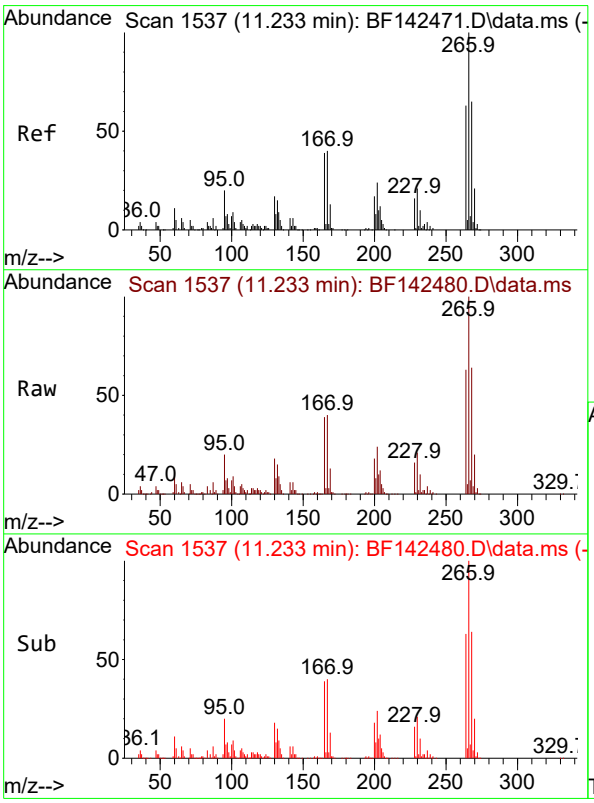
#69
Atrazine
Concen: 46.835 ng
RT: 11.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:200 Resp: 199511

Ion	Ratio	Lower	Upper
200	100		
173	27.5	7.4	47.4
215	48.2	28.5	68.5

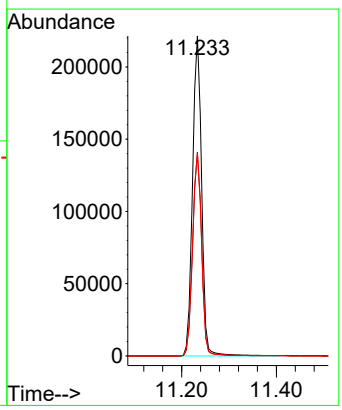


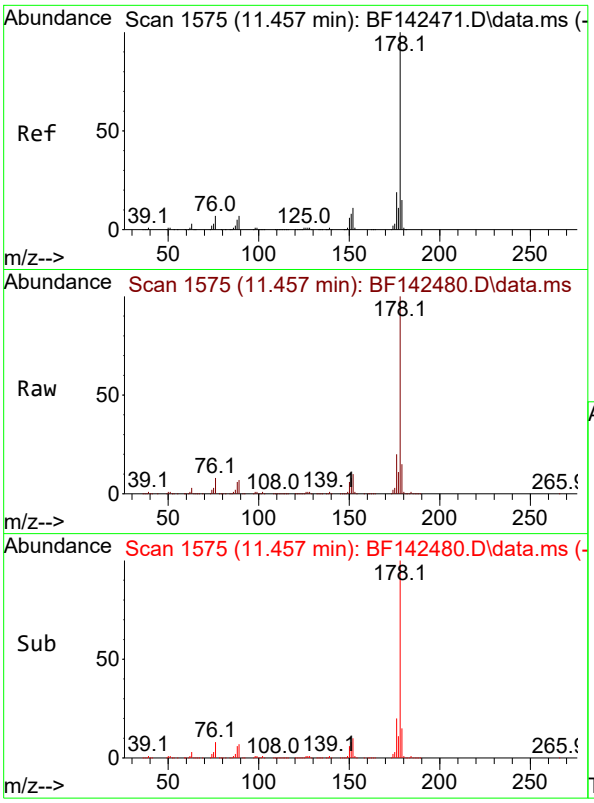


#70
Pentachlorophenol
Concen: 84.924 ng
RT: 11.233 min Scan# 1537
Delta R.T. 0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:266 Resp: 293992

Ion	Ratio	Lower	Upper
266	100		
268	63.6	51.7	77.5
264	63.5	50.4	75.6



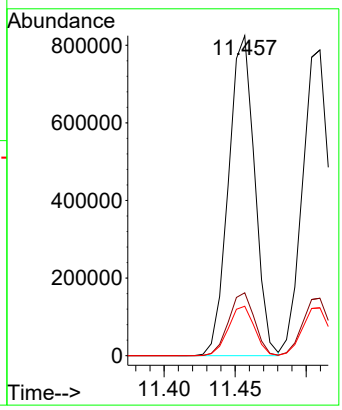


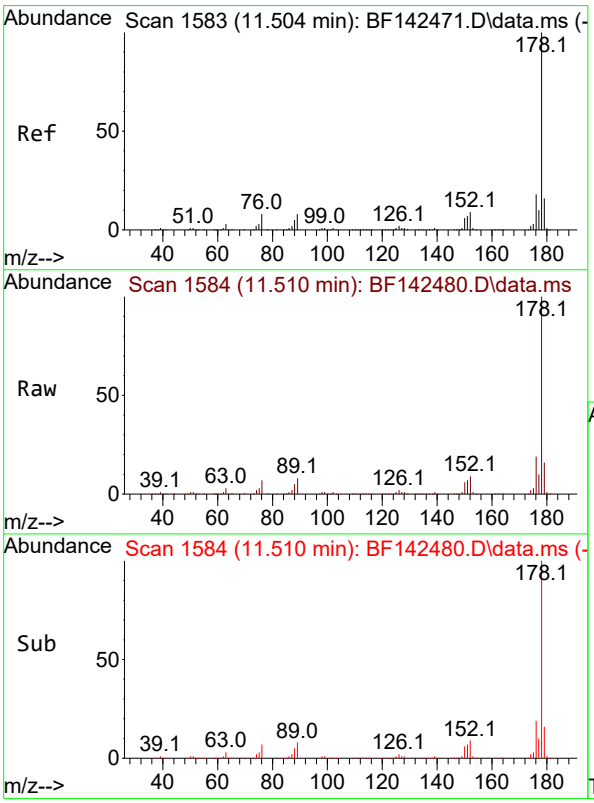
#71
Phenanthrene
Concen: 42.140 ng
RT: 11.457 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:178 Resp: 1055879

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.0
179	15.5	12.3	18.5

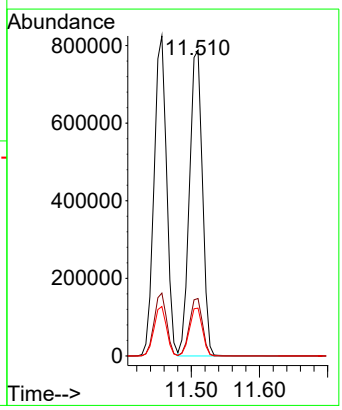


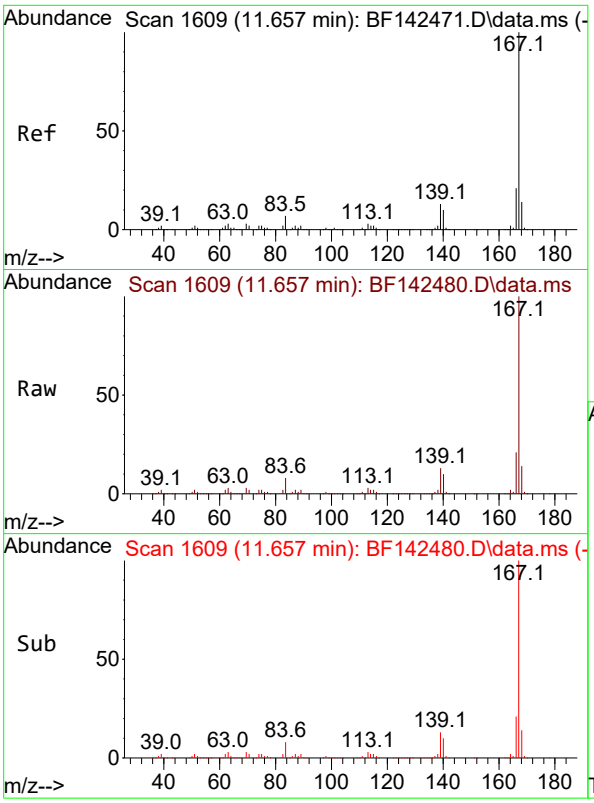


#72
Anthracene
Concen: 40.407 ng
RT: 11.510 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:178 Resp: 1033289

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.6	21.8
179	15.6	12.4	18.6



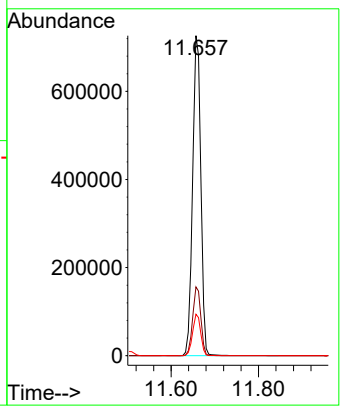


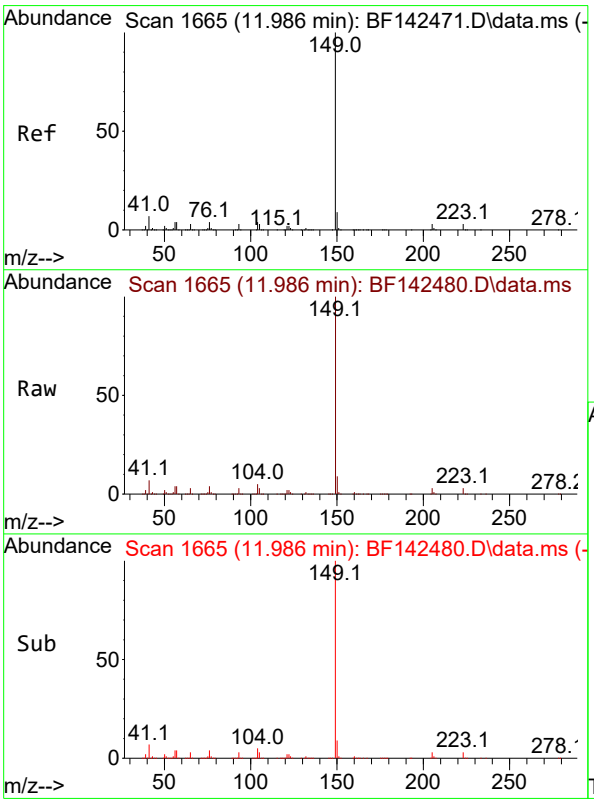
#73
Carbazole
Concen: 43.485 ng
RT: 11.657 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:167 Resp: 950628

Ion	Ratio	Lower	Upper
167	100		
166	21.5	16.9	25.3
139	13.0	10.2	15.4

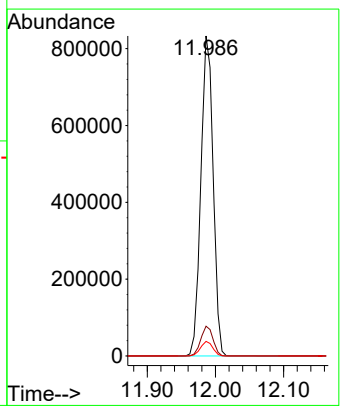


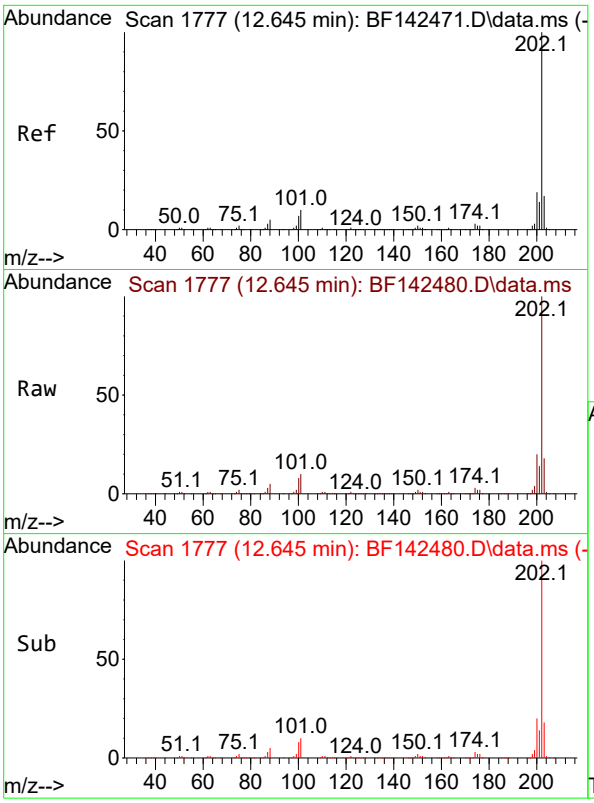


#74
Di-n-butylphthalate
Concen: 43.556 ng
RT: 11.986 min Scan# 1665
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:149 Resp: 1042271

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.3	10.9
104	4.6	3.6	5.4



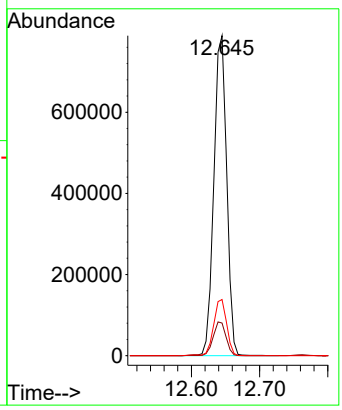


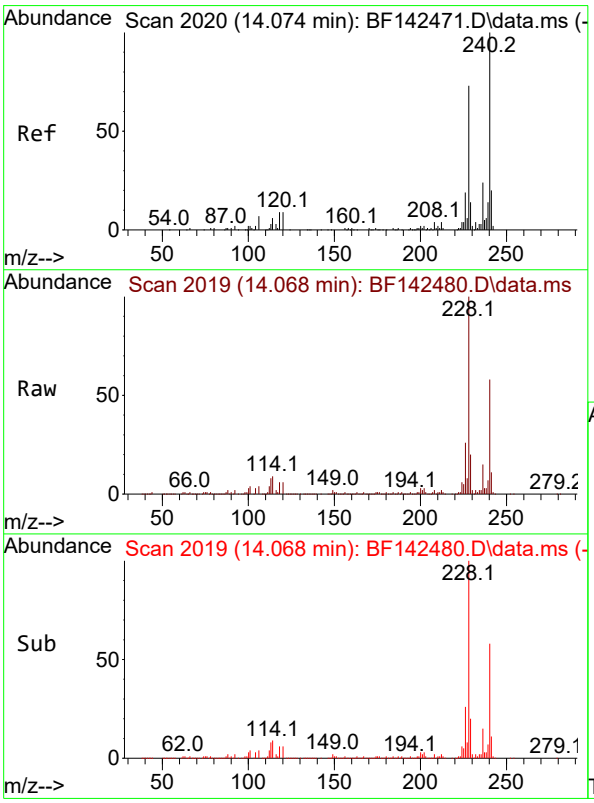
#75
Fluoranthene
Concen: 44.231 ng
RT: 12.645 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:202 Resp: 1035557

Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	29.6
203	17.6	0.0	37.2

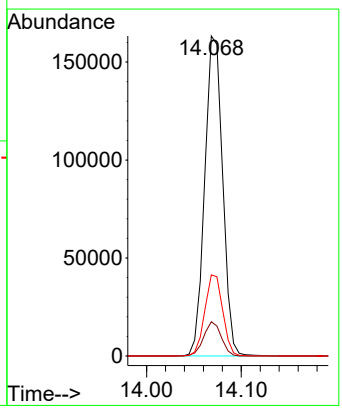


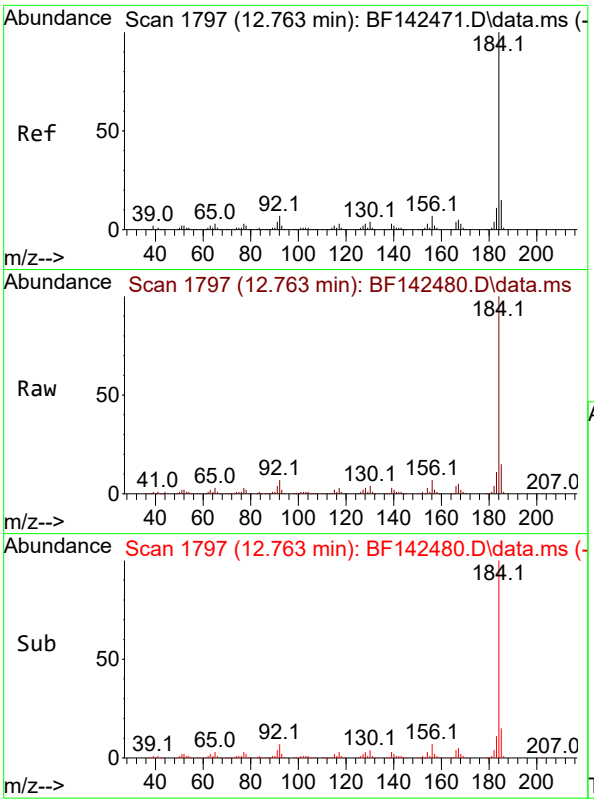


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:240 Resp: 214548

Ion	Ratio	Lower	Upper
240	100		
120	10.7	7.5	11.3
236	25.4	19.6	29.4



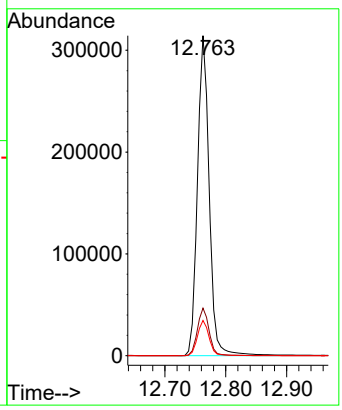


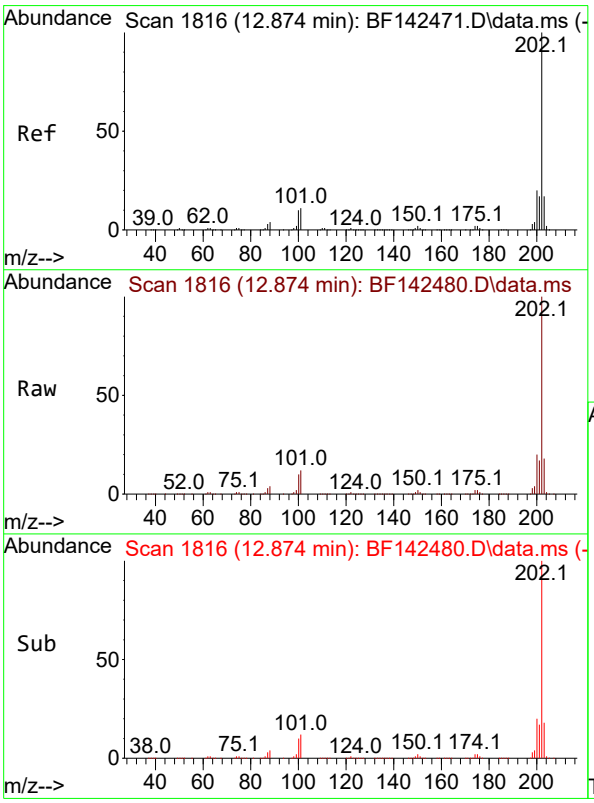
#77
Benzidine
Concen: 52.842 ng
RT: 12.763 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:184 Resp: 421887

Ion	Ratio	Lower	Upper
184	100		
185	14.8	11.6	17.4
183	11.0	9.0	13.4

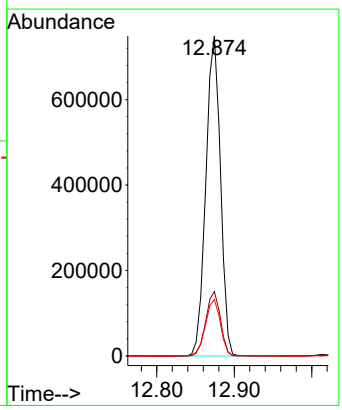


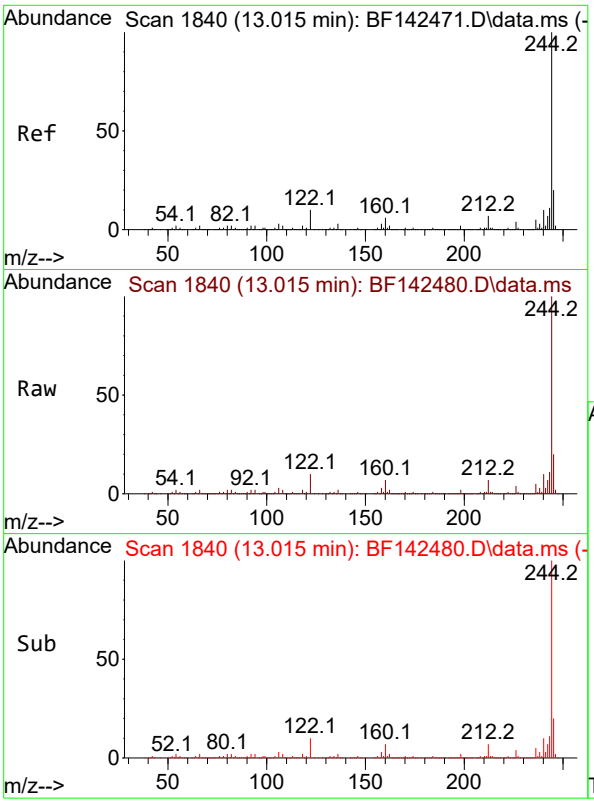


#78
Pyrene
Concen: 48.973 ng
RT: 12.874 min Scan# 1816
Delta R.T. 0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:202 Resp: 980148

Ion	Ratio	Lower	Upper
202	100		
200	20.2	16.1	24.1
203	17.7	13.9	20.9



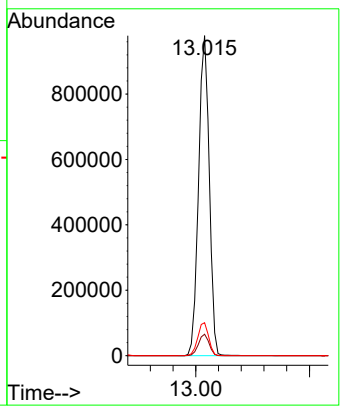


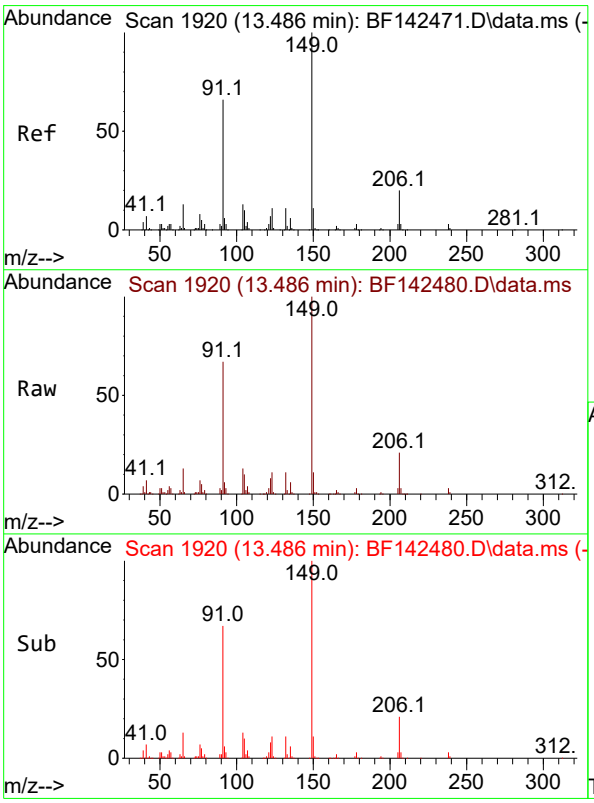
#79
Terphenyl-d14
Concen: 81.570 ng
RT: 13.015 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:244 Resp: 1280646

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.3	7.9
122	10.3	8.2	12.2

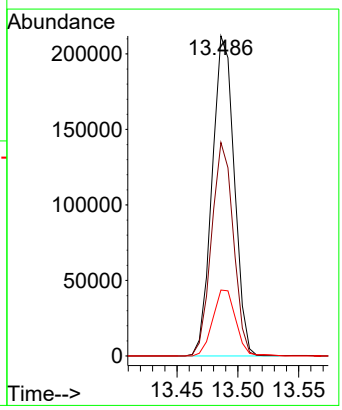


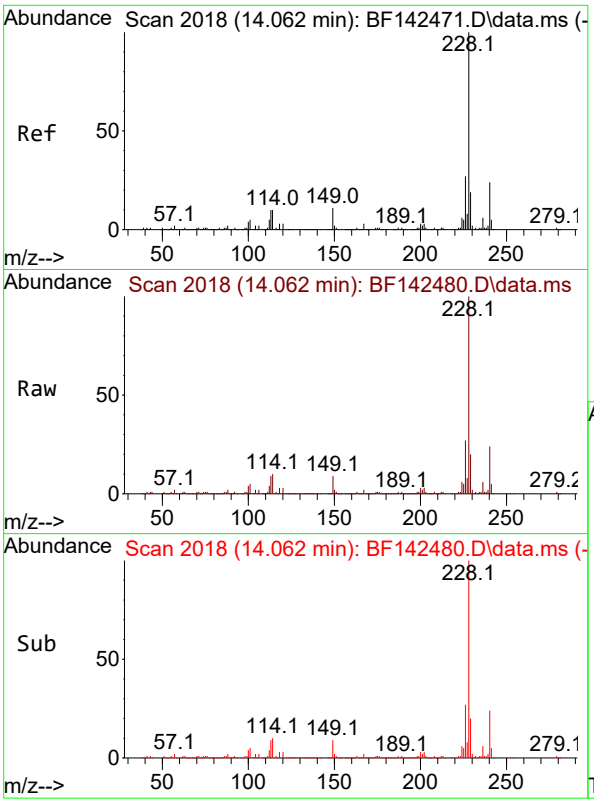


#80
Butylbenzylphthalate
Concen: 48.493 ng
RT: 13.486 min Scan# 1920
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:149 Resp: 268182

Ion	Ratio	Lower	Upper
149	100		
91	66.7	52.9	79.3
206	20.6	16.2	24.2



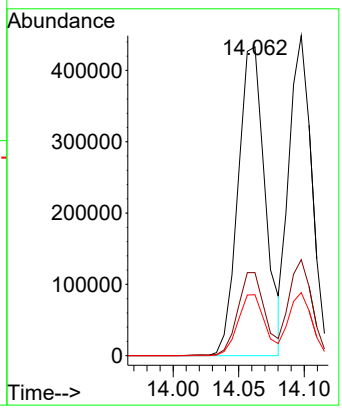


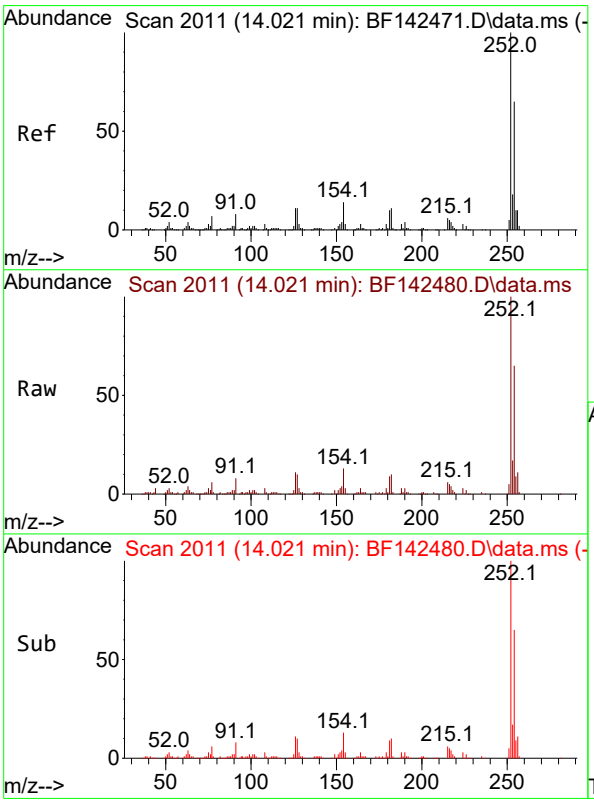
#81
Benzo(a)anthracene
Concen: 43.497 ng
RT: 14.062 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:228 Resp: 623164

Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.2	31.8
229	19.7	15.5	23.3

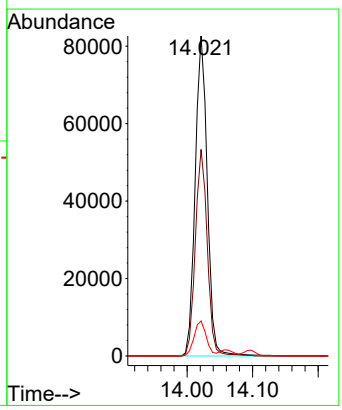


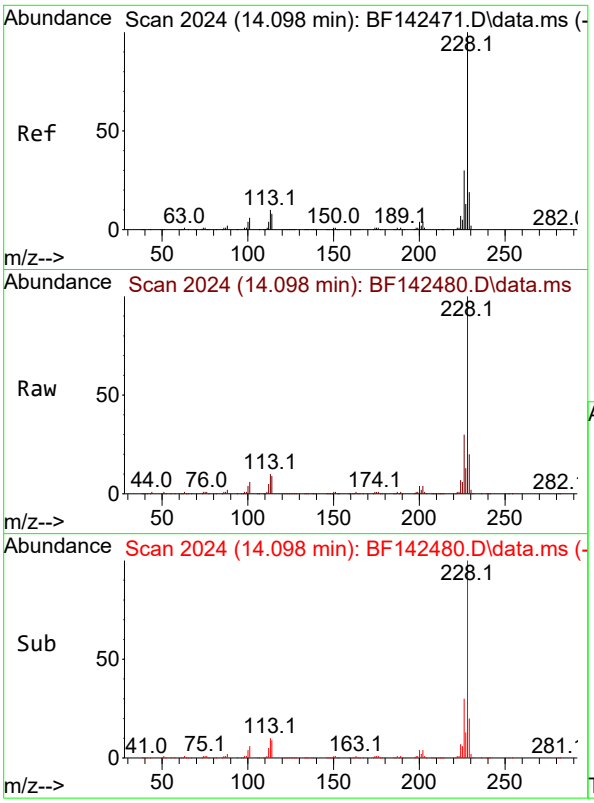


#82
3,3'-Dichlorobenzidine
Concen: 24.423 ng
RT: 14.021 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:252 Resp: 106125

Ion	Ratio	Lower	Upper
252	100		
254	64.5	52.0	78.0
126	11.0	8.9	13.3



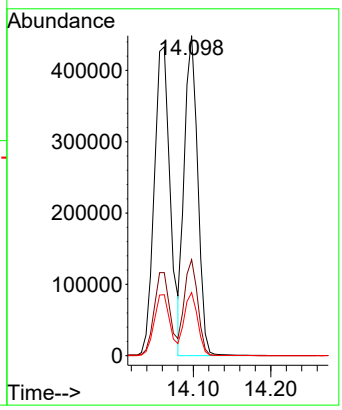


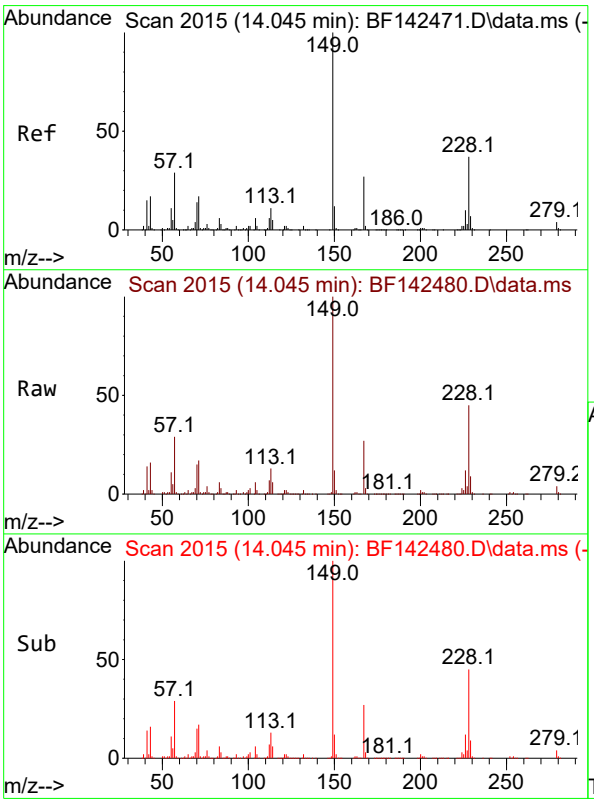
#83
Chrysene
Concen: 41.954 ng
RT: 14.098 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:228 Resp: 540084

Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.8	35.6
229	19.7	15.4	23.2

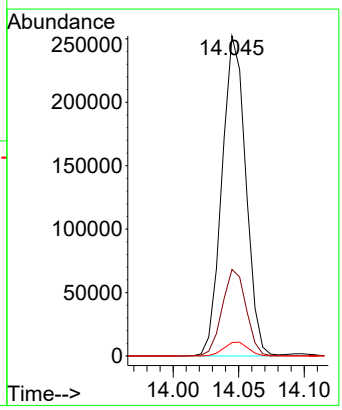


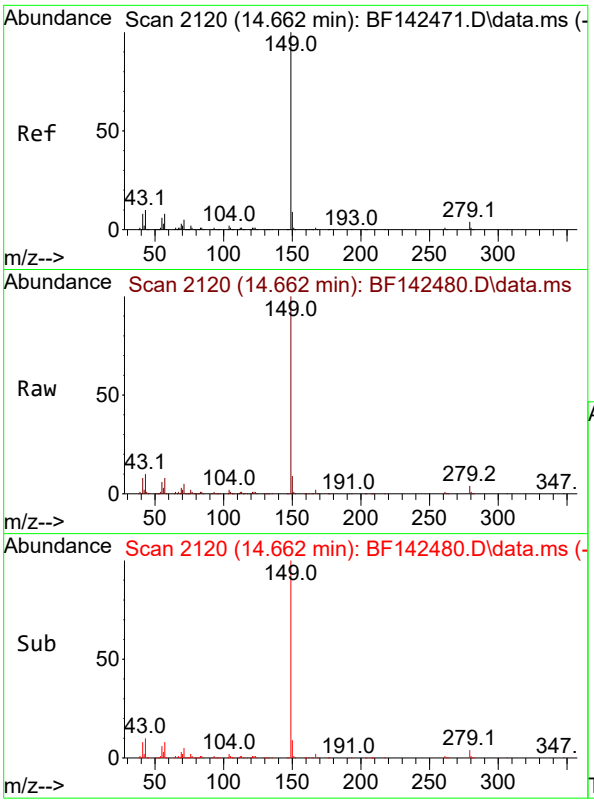


#84
Bis(2-ethylhexyl)phthalate
Concen: 45.086 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:149 Resp: 319188

Ion	Ratio	Lower	Upper
149	100		
167	27.0	21.5	32.3
279	4.2	3.2	4.8



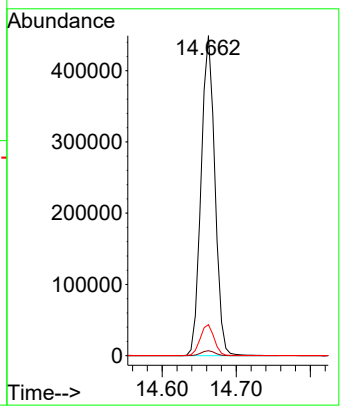


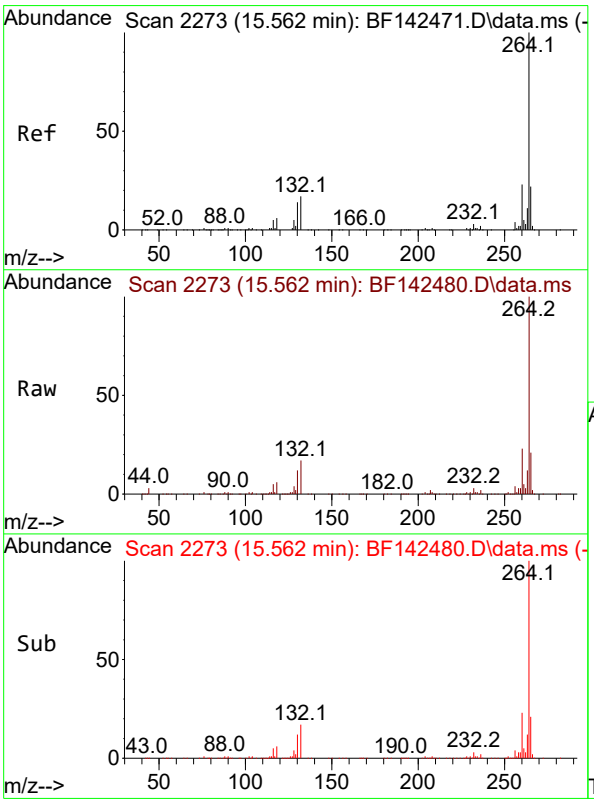
#85
Di-n-octyl phthalate
Concen: 41.968 ng
RT: 14.662 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:149 Resp: 580953

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	9.8	7.9	11.9

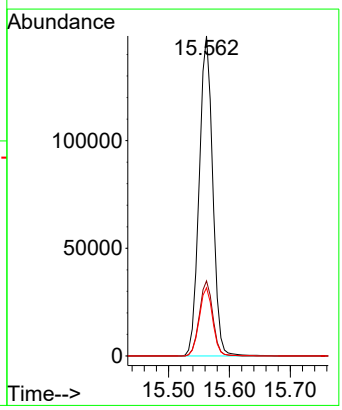


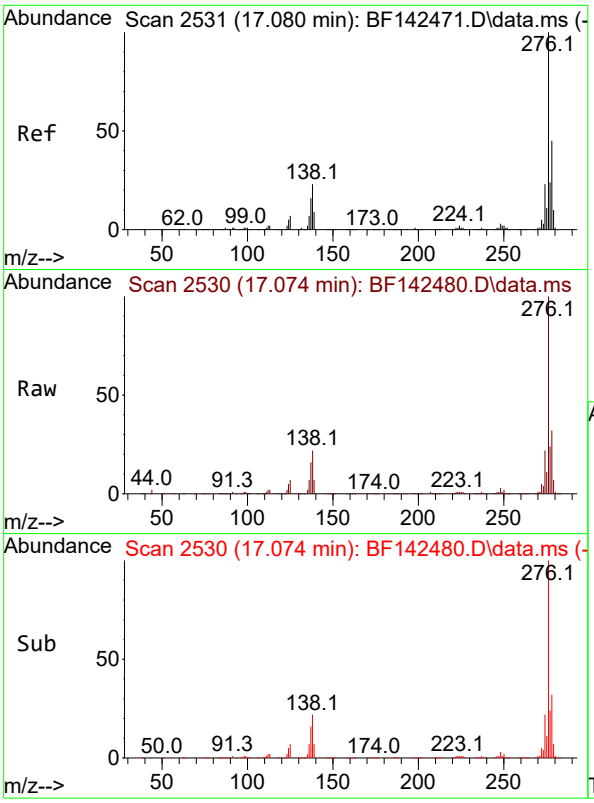


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:264 Resp: 229705

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.6	28.0
265	21.3	17.7	26.5



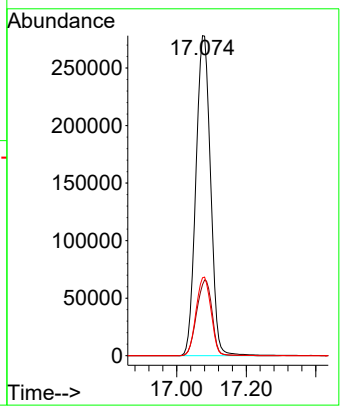


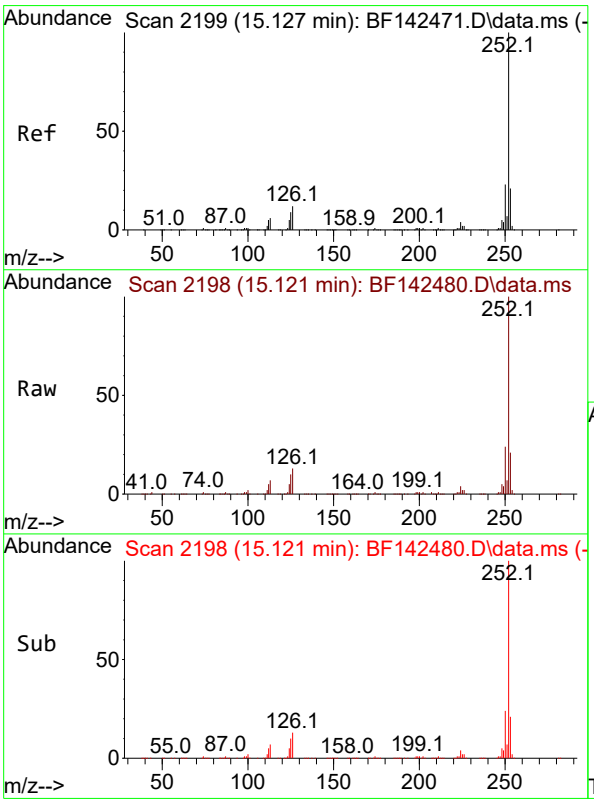
#87
Indeno(1,2,3-cd)pyrene
Concen: 47.127 ng
RT: 17.074 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:276 Resp: 812696

Ion	Ratio	Lower	Upper
276	100		
138	24.7	19.9	29.9
277	25.1	20.2	30.2

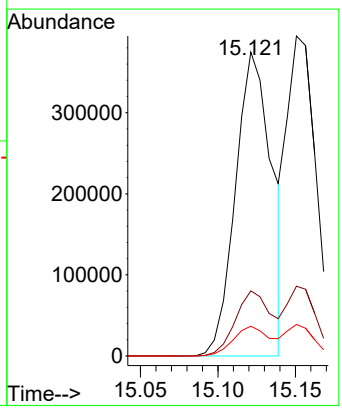


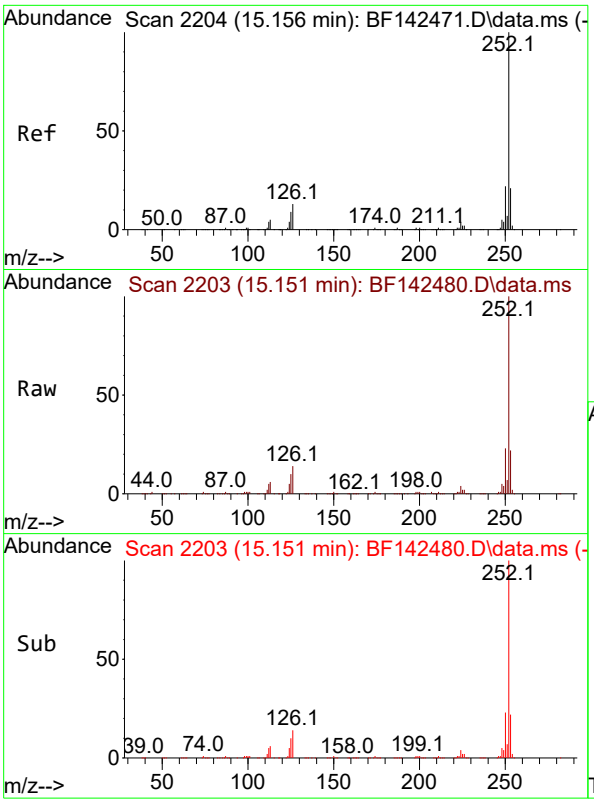


#88
Benzo(b)fluoranthene
Concen: 44.816 ng
RT: 15.121 min Scan# 2198
Delta R.T. -0.006 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:252 Resp: 609272

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.0	25.4
125	9.8	7.4	11.0



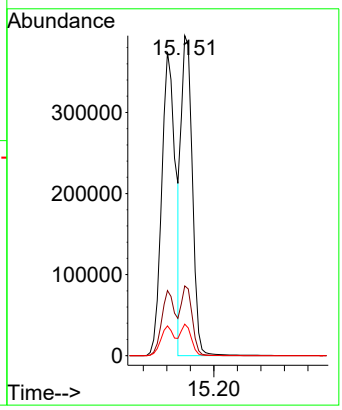


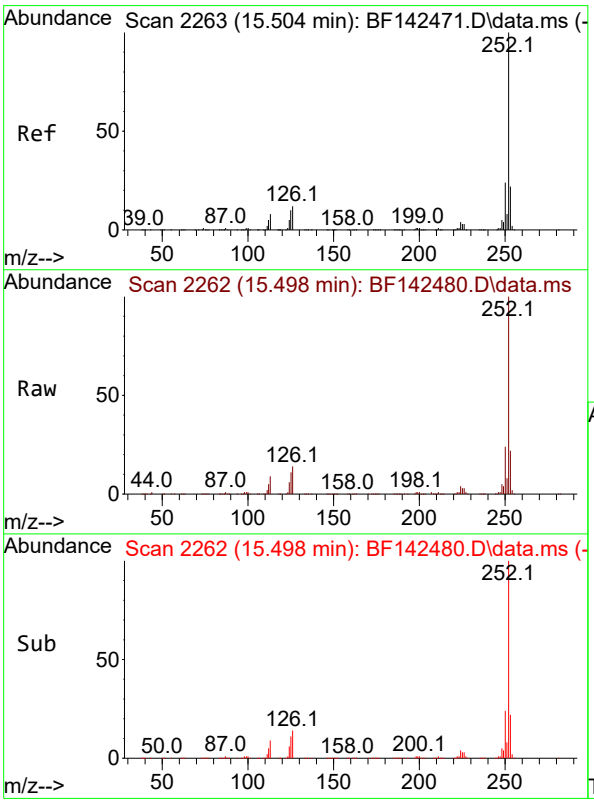
#89
Benzo(k)fluoranthene
Concen: 40.959 ng
RT: 15.151 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:252 Resp: 521543

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.0	25.4
125	9.8	7.3	10.9

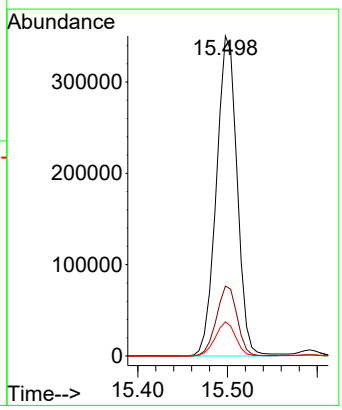


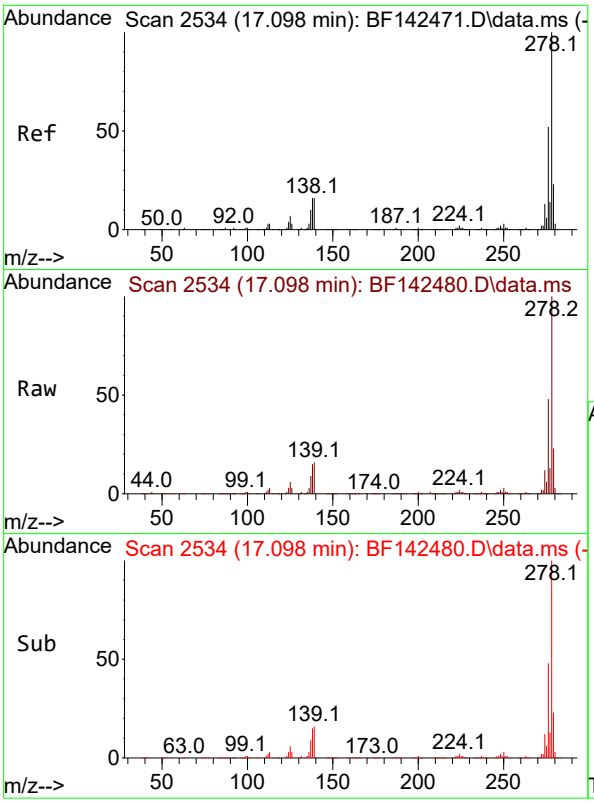


#90
Benzo(a)pyrene
Concen: 43.852 ng
RT: 15.498 min Scan# 2262
Delta R.T. -0.012 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:252 Resp: 561953

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0
125	10.7	7.9	11.9



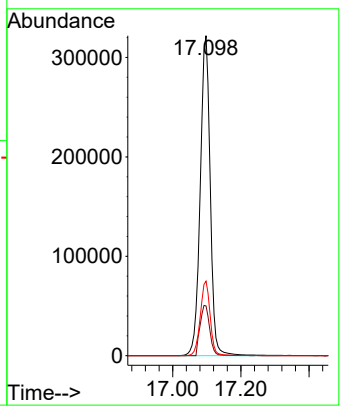


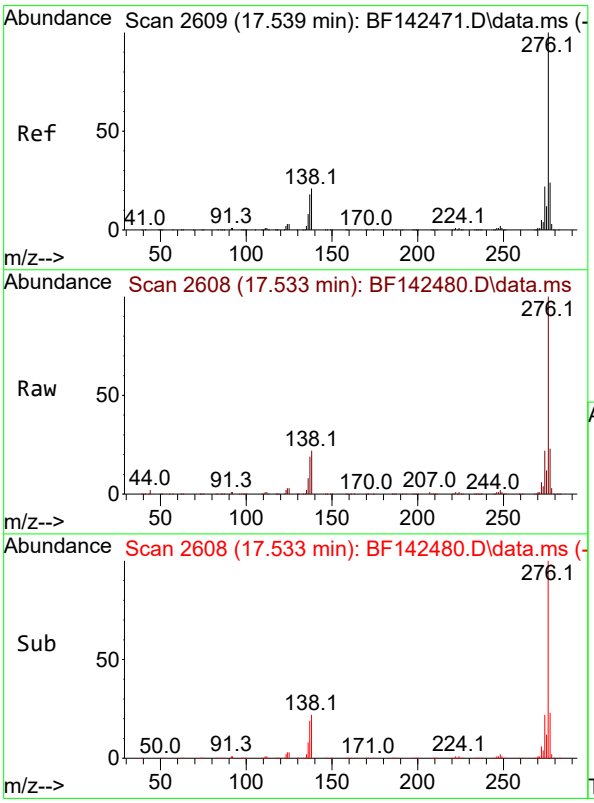
#91
Dibenzo(a,h)anthracene
Concen: 47.014 ng
RT: 17.098 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Tgt Ion:278 Resp: 657561

Ion	Ratio	Lower	Upper
278	100		
139	15.5	12.8	19.2
279	23.3	18.6	28.0

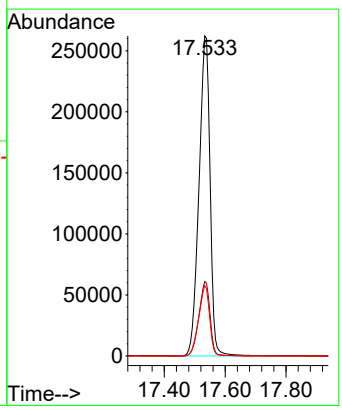




#92
Benzo(g,h,i)perylene
Concen: 47.503 ng
RT: 17.533 min Scan# 2608
Delta R.T. -0.024 min
Lab File: BF142480.D
Acq: 21 May 2025 11:37

Tgt Ion:276 Resp: 664539

Ion	Ratio	Lower	Upper
276	100		
277	23.2	19.2	28.8
138	21.9	16.8	25.2



Raw Data: **BF142487.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	SS-11MS	SDG No.:	Q2074
Lab Sample ID:	Q2075-04MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
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
BF142487.D	1	05/20/25 09:45	05/21/25 15:06	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1500		180	380	ug/Kg
108-95-2	Phenol	1600		25.2	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		27.7	190	ug/Kg
95-57-8	2-Chlorophenol	1600		27.9	190	ug/Kg
95-48-7	2-Methylphenol	1500		34.1	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		42.8	190	ug/Kg
98-86-2	Acetophenone	1700		33.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	1500		46.9	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		54.1	91.3	ug/Kg
67-72-1	Hexachloroethane	1500		20.1	190	ug/Kg
98-95-3	Nitrobenzene	1600		20.9	190	ug/Kg
78-59-1	Isophorone	1500		37.4	190	ug/Kg
88-75-5	2-Nitrophenol	1600		66.4	190	ug/Kg
105-67-9	2,4-Dimethylphenol	1600		74.0	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		35.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		32.3	190	ug/Kg
91-20-3	Naphthalene	1600		25.9	190	ug/Kg
106-47-8	4-Chloroaniline	390		40.4	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		28.9	190	ug/Kg
105-60-2	Caprolactam	2100		59.5	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		32.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	1600		29.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	2800		130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		22.6	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		33.2	190	ug/Kg
92-52-4	1,1-Biphenyl	1600		24.9	190	ug/Kg
91-58-7	2-Chloronaphthalene	1500		25.7	190	ug/Kg
88-74-4	2-Nitroaniline	1700		54.9	190	ug/Kg
131-11-3	Dimethylphthalate	1600		30.9	190	ug/Kg

Raw Data: **BF142487.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	SS-11MS	SDG No.:	Q2074
Lab Sample ID:	Q2075-04MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
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
BF142487.D	1	05/20/25 09:45	05/21/25 15:06	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		33.0	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		38.4	190	ug/Kg
99-09-2	3-Nitroaniline	1100		52.5	190	ug/Kg
83-32-9	Acenaphthene	1800		24.3	190	ug/Kg
51-28-5	2,4-Dinitrophenol	4100	E	260	380	ug/Kg
100-02-7	4-Nitrophenol	4300	E	120	380	ug/Kg
132-64-9	Dibenzofuran	1600		25.9	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		57.2	190	ug/Kg
84-66-2	Diethylphthalate	1700		32.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		30.5	190	ug/Kg
86-73-7	Fluorene	1700		28.9	190	ug/Kg
100-01-6	4-Nitroaniline	2100		73.3	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		37.6	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		31.7	190	ug/Kg
118-74-1	Hexachlorobenzene	1500		28.9	190	ug/Kg
1912-24-9	Atrazine	2000		38.8	190	ug/Kg
87-86-5	Pentachlorophenol	3500	E	58.6	380	ug/Kg
85-01-8	Phenanthrene	1600		23.9	190	ug/Kg
120-12-7	Anthracene	1700		38.0	190	ug/Kg
86-74-8	Carbazole	1900		35.6	190	ug/Kg
84-74-2	Di-n-butylphthalate	2000		54.7	190	ug/Kg
206-44-0	Fluoranthene	2200		34.2	190	ug/Kg
129-00-0	Pyrene	1300		41.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	1900		81.5	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	720		41.9	380	ug/Kg
56-55-3	Benzo(a)anthracene	1700		26.3	190	ug/Kg
218-01-9	Chrysene	1600		22.7	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2100		67.6	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1700		99.1	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		21.7	190	ug/Kg

Raw Data: **BF142487.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	SS-11MS	SDG No.:	Q2074
Lab Sample ID:	Q2075-04MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
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
BF142487.D	1	05/20/25 09:45	05/21/25 15:06	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		25.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	1700		33.7	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1400		33.2	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1400		31.3	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300		29.3	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		29.2	190	ug/Kg
123-91-1	1,4-Dioxane	1400		51.6	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		31.3	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	97.6		18 - 112	65%	SPK: 150
13127-88-3	Phenol-d6	97.8		15 - 107	65%	SPK: 150
4165-60-0	Nitrobenzene-d5	60.4		18 - 107	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	51.6		20 - 109	52%	SPK: 100
118-79-6	2,4,6-Tribromophenol	113		10 - 116	76%	SPK: 150
1718-51-0	Terphenyl-d14	41.5		10 - 105	41%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	54800	6.898			
1146-65-2	Naphthalene-d8	201000	8.181			
15067-26-2	Acenaphthene-d10	114000	9.939			
1517-22-2	Phenanthrene-d10	229000	11.427			
1719-03-5	Chrysene-d12	211000	14.068			
1520-96-3	Perylene-d12	176000	15.563			

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\BF052125\
Data File : BF142487.D
Acq On : 21 May 2025 15:06
Operator : RC/JU
Sample : Q2075-04MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Quant Time: May 21 15:50:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.898	152	54835	20.000	ng		0.00
21) Naphthalene-d8	8.181	136	200654	20.000	ng		0.00
39) Acenaphthene-d10	9.939	164	113830	20.000	ng		0.00
64) Phenanthrene-d10	11.427	188	229012	20.000	ng		0.00
76) Chrysene-d12	14.068	240	210926	20.000	ng		0.00
86) Perylene-d12	15.563	264	176162	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	317682	97.605	ng		-0.01
7) Phenol-d6	6.516	99	383061	97.770	ng		-0.02
23) Nitrobenzene-d5	7.457	82	222361	60.428	ng		-0.02
42) 2,4,6-Tribromophenol	10.728	330	143338	113.457	ng		-0.01
45) 2-Fluorobiphenyl	9.257	172	437751	51.603	ng		-0.01
79) Terphenyl-d14	13.010	244	640281	41.482	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.634	88	48586	37.304	ng		100
3) Pyridine	3.410	79	130372	39.308	ng		99
4) n-Nitrosodimethylamine	3.346	42	69967	40.629	ng		99
6) Aniline	6.557	93	118384	22.472	ng		98
8) 2-Chlorophenol	6.681	128	145011	40.904	ng		99
9) Benzaldehyde	6.445	77	91556	38.852	ng		98
10) Phenol	6.528	94	180038	40.838	ng		100
11) bis(2-Chloroethyl)ether	6.628	93	125263	39.472	ng		98
12) 1,3-Dichlorobenzene	6.840	146	159388	40.291	ng		98
13) 1,4-Dichlorobenzene	6.916	146	161291	40.477	ng		98
14) 1,2-Dichlorobenzene	7.069	146	153379	40.226	ng		99
15) Benzyl Alcohol	7.034	79	116330	40.178	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.169	45	207807	38.993	ng		100
17) 2-Methylphenol	7.140	107	112125	40.510	ng		99
18) Hexachloroethane	7.410	117	55846	40.136	ng		97
19) n-Nitroso-di-n-propyla...	7.304	70	93232	38.396	ng		100
20) 3+4-Methylphenols	7.292	107	144305	40.713	ng	#	87
22) Acetophenone	7.304	105	193459	43.554	ng		99
24) Nitrobenzene	7.475	77	141023	42.492	ng		98
25) Isophorone	7.716	82	246928	40.136	ng		98
26) 2-Nitrophenol	7.792	139	75333	42.480	ng		99
27) 2,4-Dimethylphenol	7.828	122	132431	42.346	ng		99
28) bis(2-Chloroethoxy)met...	7.928	93	154653	40.240	ng		100
29) 2,4-Dichlorophenol	8.034	162	119698	42.087	ng		99
30) 1,2,4-Trichlorobenzene	8.122	180	128865	41.750	ng		97
31) Naphthalene	8.204	128	419286	42.437	ng		100
32) Benzoic acid	7.916	122	88423m	46.448	ng		
33) 4-Chloroaniline	8.251	127	40768	10.183	ng		99
34) Hexachlorobutadiene	8.322	225	79280	41.136	ng		99
35) Caprolactam	8.598	113	43624m	54.613	ng		
36) 4-Chloro-3-methylphenol	8.728	107	125934	43.206	ng		98
37) 2-Methylnaphthalene	8.892	142	262739	42.270	ng		100
38) 1-Methylnaphthalene	8.992	142	272097	42.320	ng		100
40) 1,2,4,5-Tetrachloroben...	9.063	216	132130	40.437	ng		99
41) Hexachlorocyclopentadiene	9.051	237	162392	73.672	ng		99
43) 2,4,6-Trichlorophenol	9.169	196	89146	40.459	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142487.D
Acq On : 21 May 2025 15:06
Operator : RC/JU
Sample : Q2075-04MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Quant Time: May 21 15:50:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

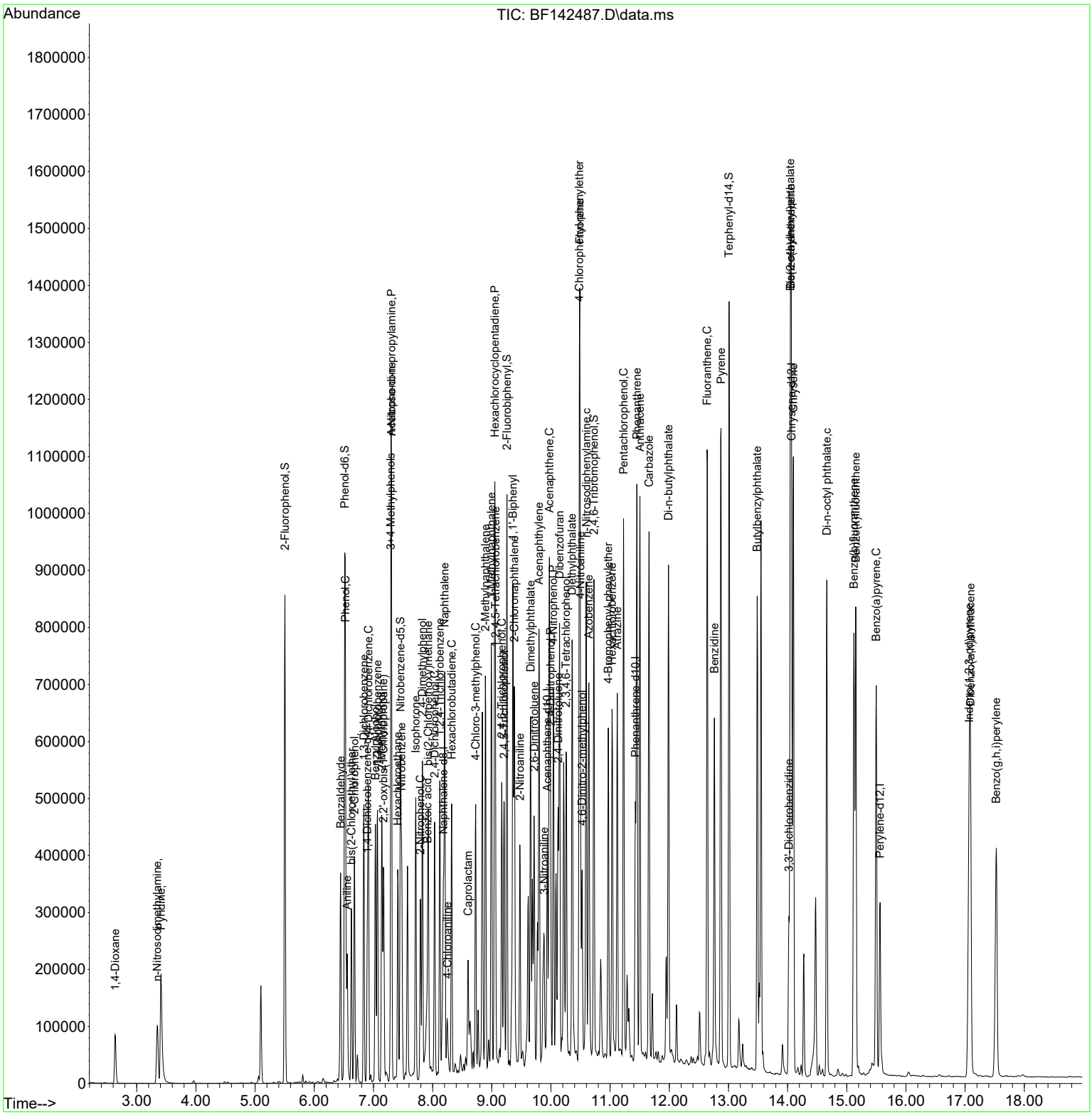
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	97535	41.972	ng		98
46) 1,1'-Biphenyl	9.357	154	366054	41.450	ng		99
47) 2-Chloronaphthalene	9.381	162	261870	40.135	ng		100
48) 2-Nitroaniline	9.475	65	83501	44.275	ng		99
49) Acenaphthylene	9.798	152	461954	41.929	ng		99
50) Dimethylphthalate	9.657	163	321711	42.833	ng		99
51) 2,6-Dinitrotoluene	9.716	165	71155	43.893	ng		98
52) Acenaphthene	9.975	154	316584	47.057	ng		98
53) 3-Nitroaniline	9.886	138	49223	27.800	ng		97
54) 2,4-Dinitrophenol	9.992	184	89427	106.777	ng		97
55) Dibenzofuran	10.145	168	417111	43.085	ng		99
56) 4-Nitrophenol	10.039	139	148325	113.533	ng		94
57) 2,4-Dinitrotoluene	10.122	165	106463	50.288	ng		99
58) Fluorene	10.486	166	334722	44.754	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.257	232	87547	45.129	ng	#	99
60) Diethylphthalate	10.357	149	336727	45.904	ng		99
61) 4-Chlorophenyl-phenyle...	10.480	204	156021	42.465	ng		98
62) 4-Nitroaniline	10.498	138	88055	54.834	ng		99
63) Azobenzene	10.639	77	321047	48.728	ng		97
65) 4,6-Dinitro-2-methylph...	10.528	198	59594	46.629	ng		100
66) n-Nitrosodiphenylamine	10.598	169	302640	38.627	ng		99
67) 4-Bromophenyl-phenylether	10.969	248	100859	37.246	ng		97
68) Hexachlorobenzene	11.033	284	116897	39.031	ng		99
69) Atrazine	11.122	200	107203	51.521	ng		98
70) Pentachlorophenol	11.227	266	154568	91.410	ng		99
71) Phenanthrene	11.451	178	528821	43.208	ng		100
72) Anthracene	11.504	178	544100	43.560	ng		99
73) Carbazole	11.657	167	529990	49.633	ng		100
74) Di-n-butylphthalate	11.986	149	608435	52.055	ng		99
75) Fluoranthene	12.639	202	660582	57.764	ng		100
77) Benzidine	12.763	184	338429	43.116	ng		99
78) Pyrene	12.874	202	669848	34.043	ng		99
80) Butylbenzylphthalate	13.486	149	271799	49.991	ng		99
81) Benzo(a)anthracene	14.057	228	611032	43.383	ng		98
82) 3,3'-Dichlorobenzidine	14.021	252	81284	19.027	ng		97
83) Chrysene	14.098	228	524218	41.421	ng		100
84) Bis(2-ethylhexyl)phtha...	14.045	149	376196	54.051	ng		100
85) Di-n-octyl phthalate	14.663	149	605040	44.459	ng		100
87) Indeno(1,2,3-cd)pyrene	17.068	276	477933	36.138	ng		99
88) Benzo(b)fluoranthene	15.121	252	530624	50.894	ng		98
89) Benzo(k)fluoranthene	15.151	252	416436	42.645	ng		99
90) Benzo(a)pyrene	15.498	252	434657	44.228	ng		99
91) Dibenzo(a,h)anthracene	17.092	278	382303	35.642	ng		99
92) Benzo(g,h,i)perylene	17.527	276	380185	35.437	ng		100

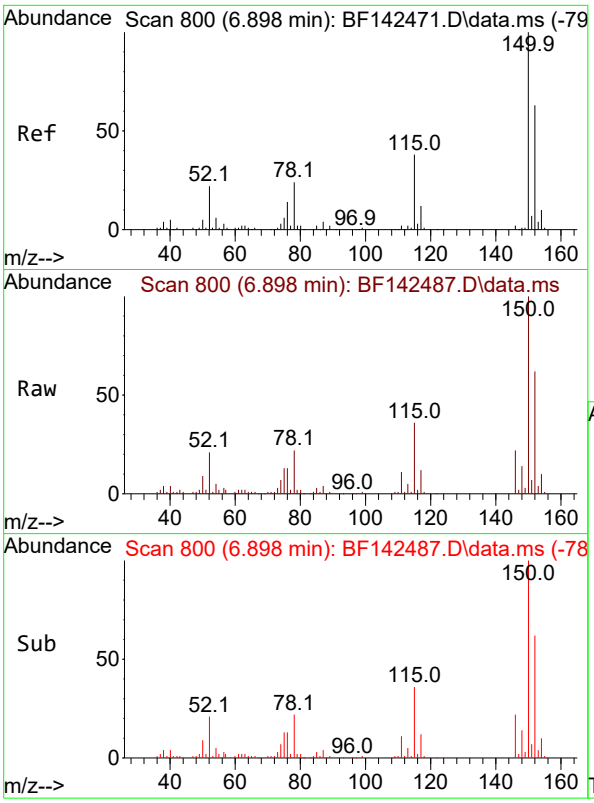
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142487.D
Acq On : 21 May 2025 15:06
Operator : RC/JU
Sample : Q2075-04MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Quant Time: May 21 15:50:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



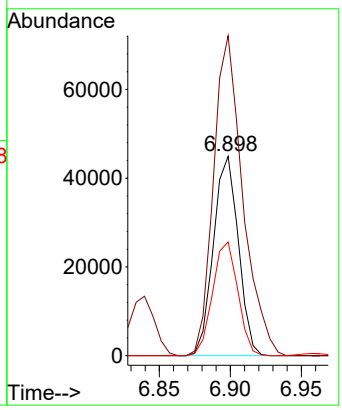


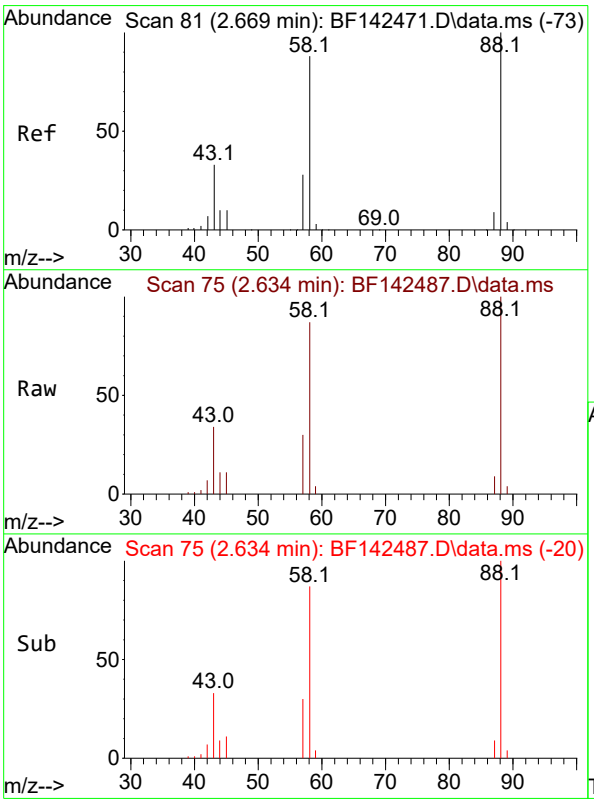
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:152 Resp: 54835

Ion	Ratio	Lower	Upper
152	100		
150	160.5	128.2	192.4
115	57.0	48.3	72.5

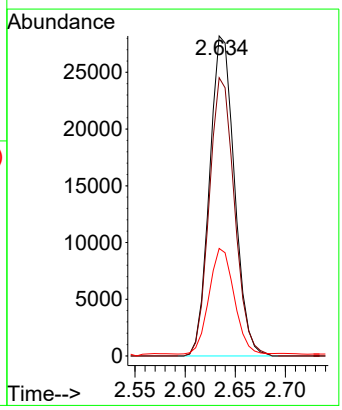


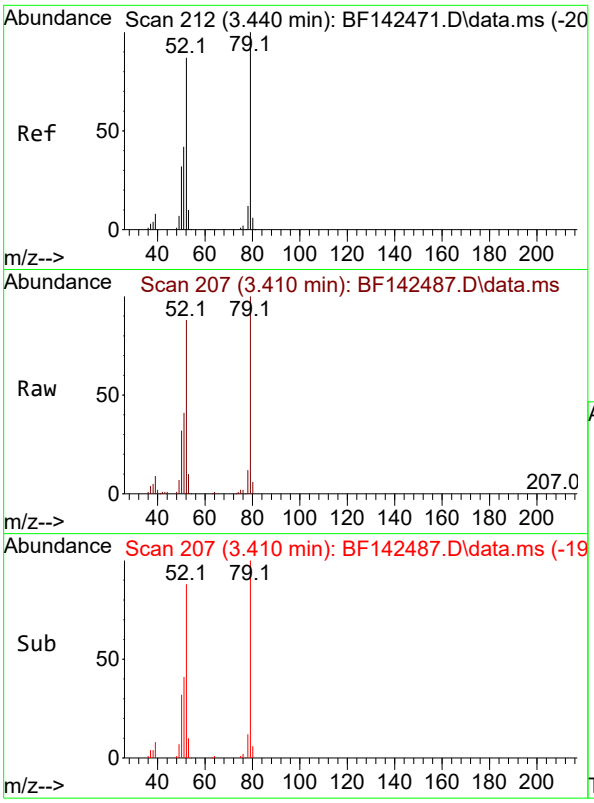


#2
1,4-Dioxane
Concen: 37.304 ng
RT: 2.634 min Scan# 75
Delta R.T. -0.029 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion: 88 Resp: 48586

Ion	Ratio	Lower	Upper
88	100		
58	88.2	70.8	106.2
43	33.9	26.6	40.0



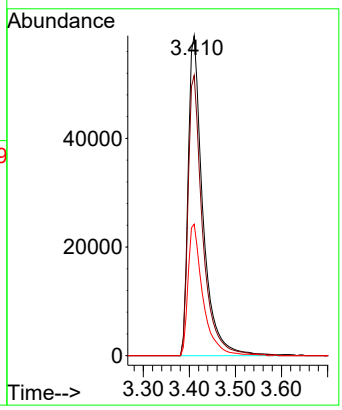


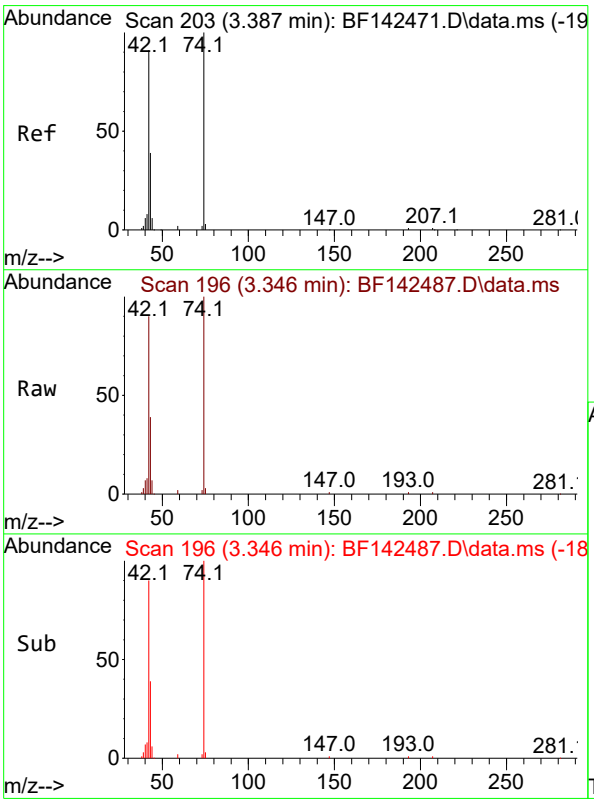
#3
Pyridine
Concen: 39.308 ng
RT: 3.410 min Scan# 2
Delta R.T. -0.029 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion: 79 Resp: 130372

Ion	Ratio	Lower	Upper
79	100		
52	87.6	69.2	103.8
51	41.1	33.3	49.9

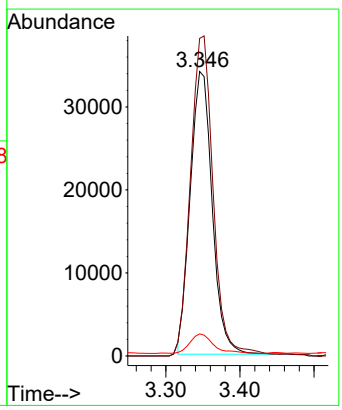


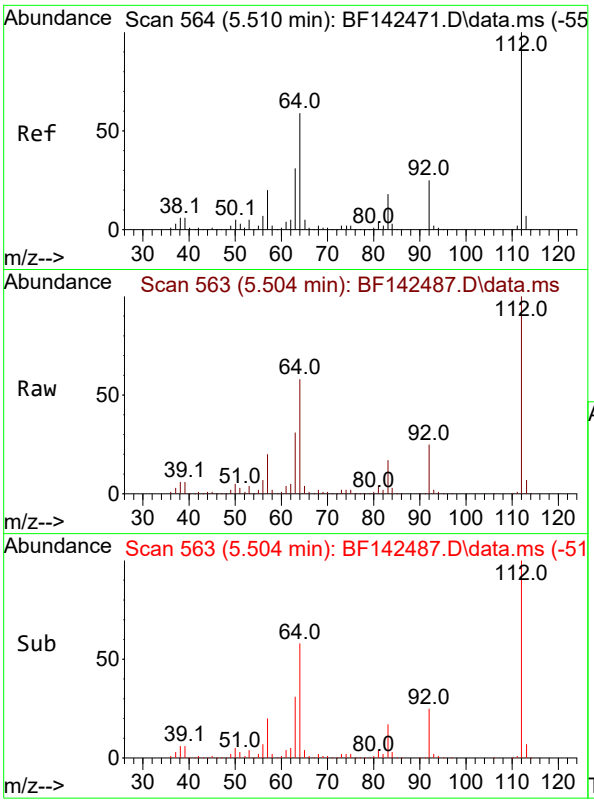


#4
n-Nitrosodimethylamine
Concen: 40.629 ng
RT: 3.346 min Scan# 196
Delta R.T. -0.059 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion: 42 Resp: 69967

Ion	Ratio	Lower	Upper
42	100		
74	111.6	88.2	132.4
44	7.7	5.4	8.2



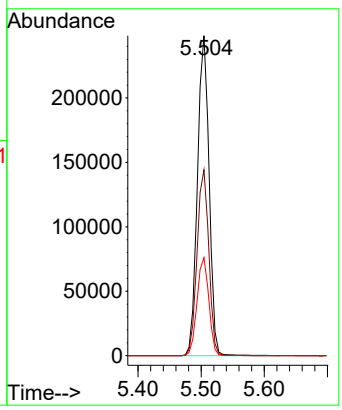


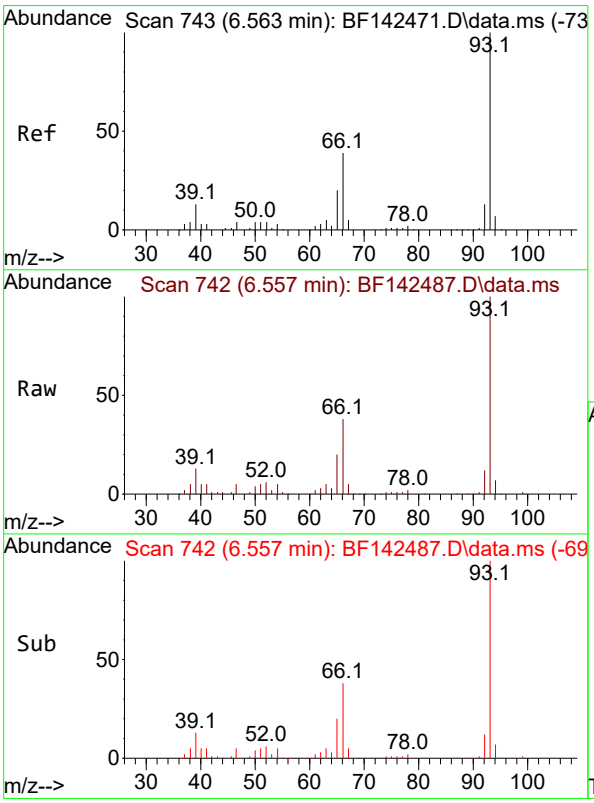
#5
2-Fluorophenol
Concen: 97.605 ng
RT: 5.504 min Scan# 5
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:112 Resp: 317682

Ion	Ratio	Lower	Upper
112	100		
64	58.1	47.5	71.3
63	30.7	24.9	37.3

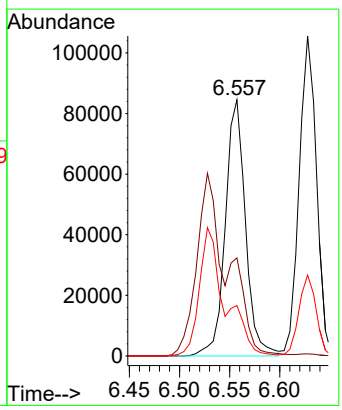


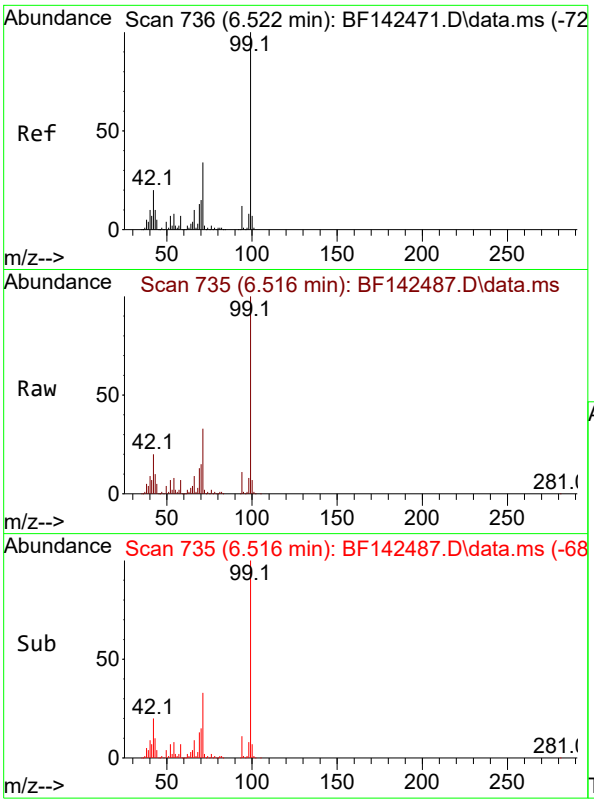


#6
Aniline
Concen: 22.472 ng
RT: 6.557 min Scan# 742
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion: 93 Resp: 118384

Ion	Ratio	Lower	Upper
93	100		
66	38.3	32.0	48.0
65	19.7	16.1	24.1



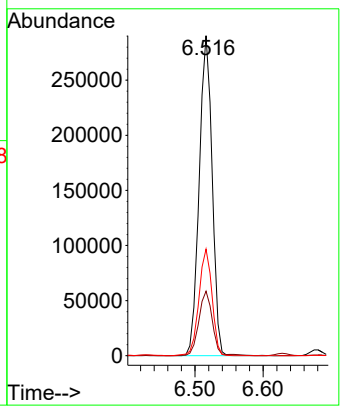


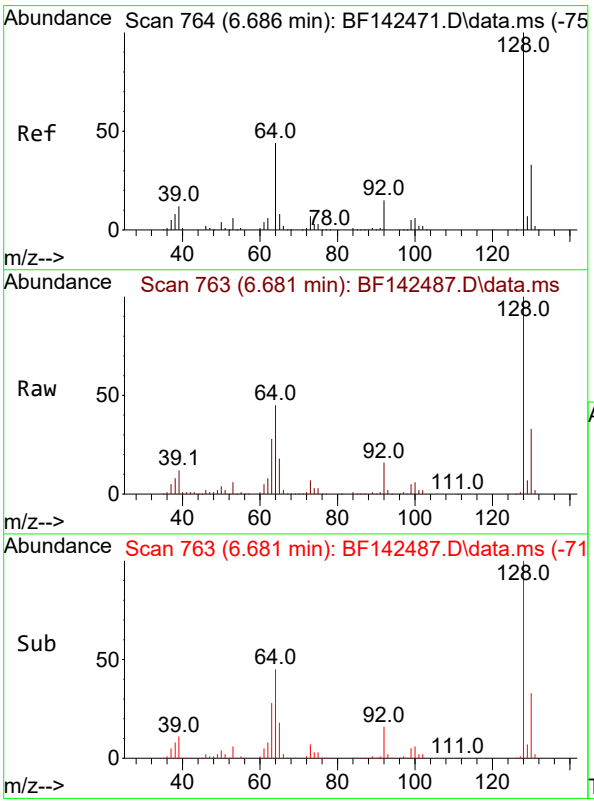
#7
Phenol-d6
Concen: 97.770 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion: 99 Resp: 383061

Ion	Ratio	Lower	Upper
99	100		
42	20.2	16.2	24.2
71	33.3	27.3	40.9

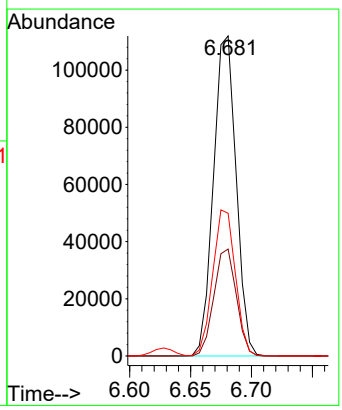


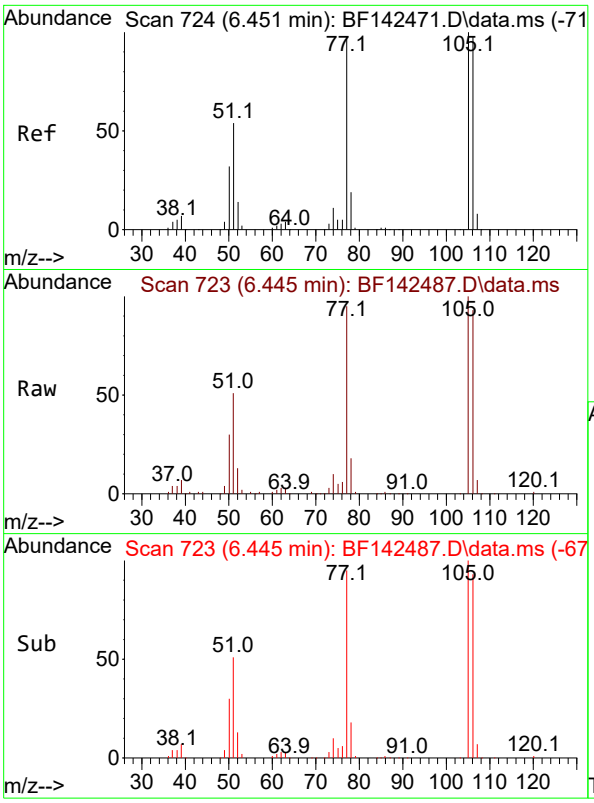


#8
2-Chlorophenol
Concen: 40.904 ng
RT: 6.681 min Scan# 763
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:128 Resp: 145011

Ion	Ratio	Lower	Upper
128	100		
130	33.4	12.6	52.6
64	44.6	25.1	65.1



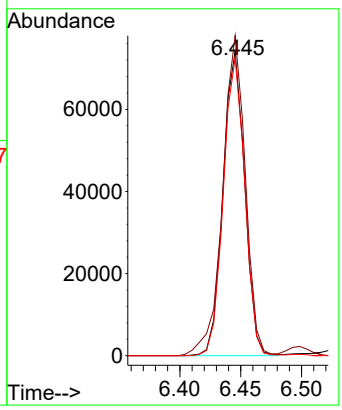


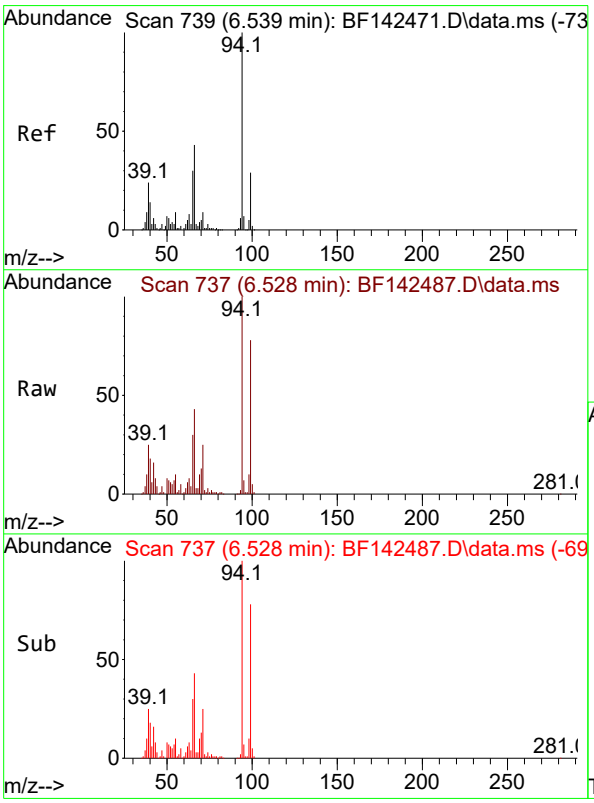
#9
Benzaldehyde
Concen: 38.852 ng
RT: 6.445 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion: 77 Resp: 91556

Ion	Ratio	Lower	Upper
77	100		
105	105.2	82.5	122.5
106	97.9	80.0	120.0

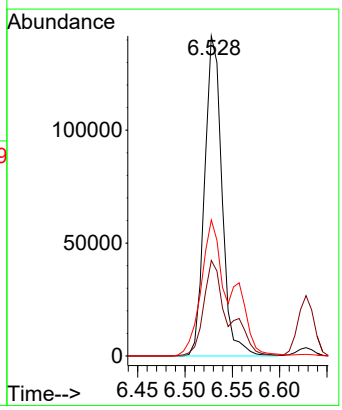


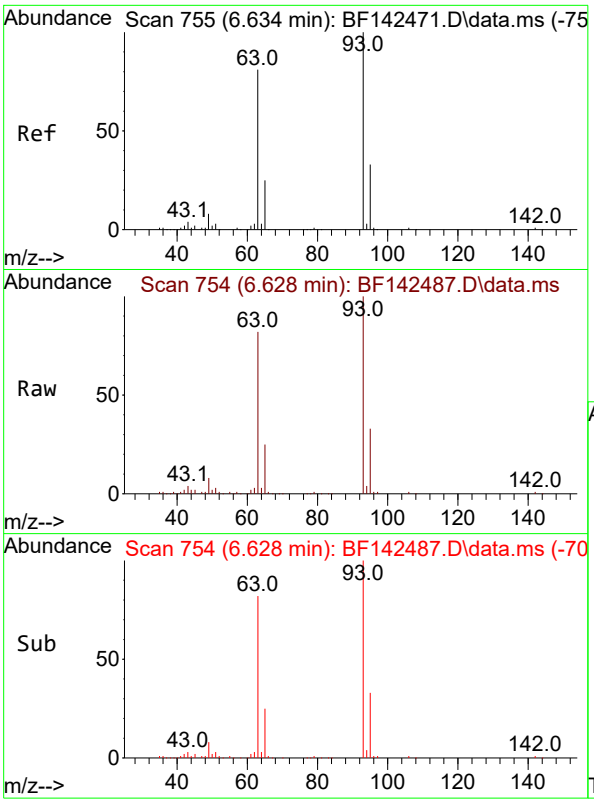


#10
Phenol
Concen: 40.838 ng
RT: 6.528 min Scan# 737
Delta R.T. -0.023 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion: 94 Resp: 180038

Ion	Ratio	Lower	Upper
94	100		
65	29.9	10.3	50.3
66	42.5	22.6	62.6



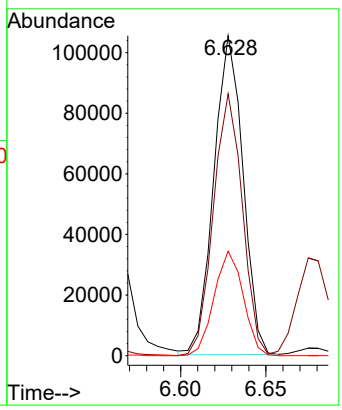


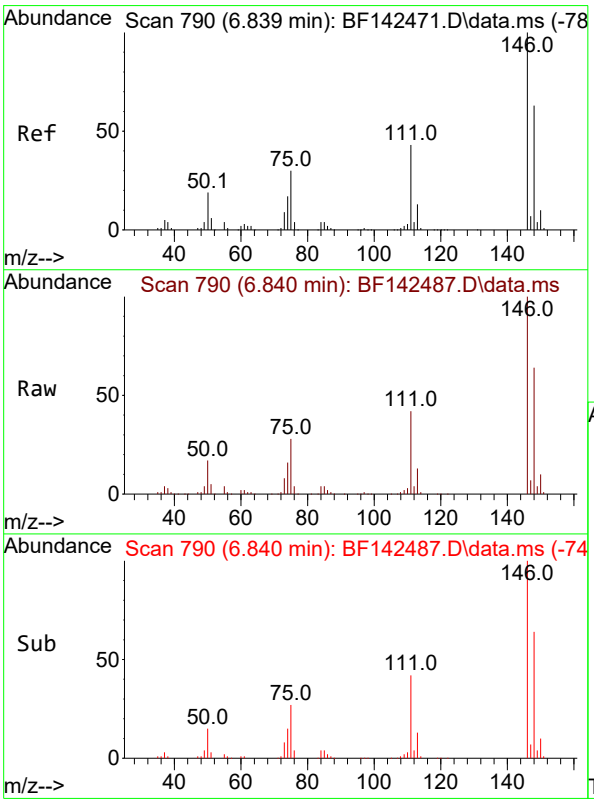
#11
bis(2-Chloroethyl)ether
Concen: 39.472 ng
RT: 6.628 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion: 93 Resp: 125263

Ion	Ratio	Lower	Upper
93	100		
63	81.8	60.2	100.2
95	32.7	12.3	52.3

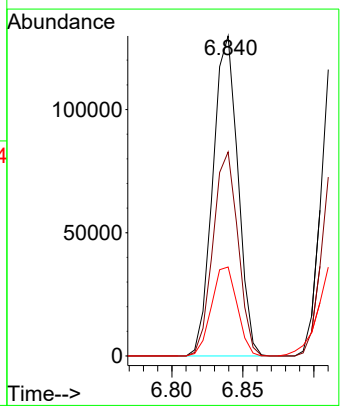


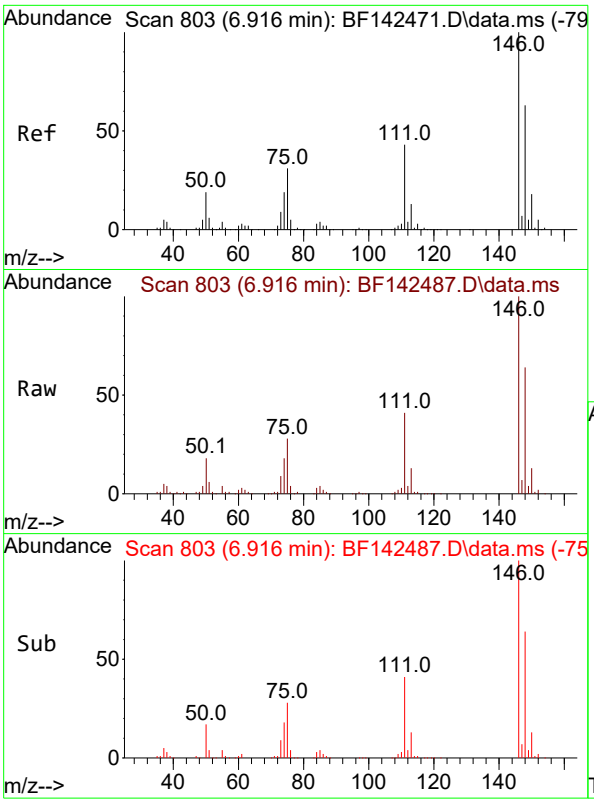


#12
1,3-Dichlorobenzene
Concen: 40.291 ng
RT: 6.840 min Scan# 790
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:146 Resp: 159388

Ion	Ratio	Lower	Upper
146	100		
148	63.7	50.6	75.8
75	27.8	23.8	35.6



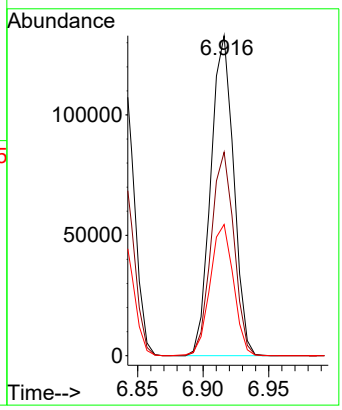


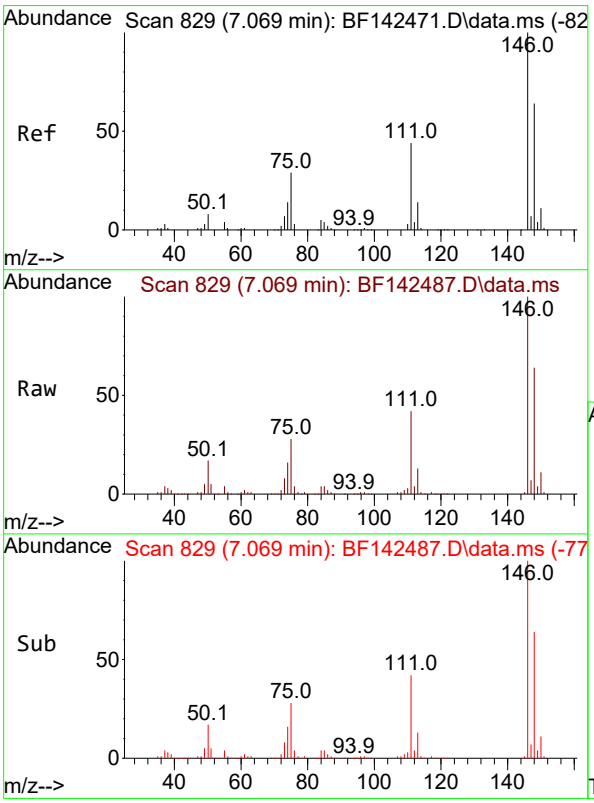
#13
1,4-Dichlorobenzene
Concen: 40.477 ng
RT: 6.916 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:146 Resp: 161291

Ion	Ratio	Lower	Upper
146	100		
148	63.6	50.4	75.6
111	41.0	34.1	51.1

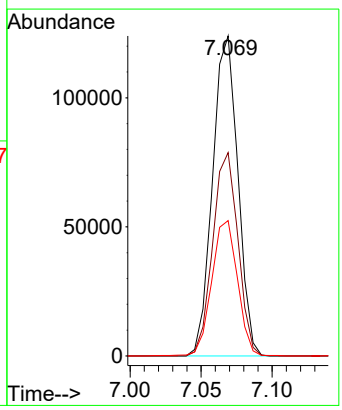


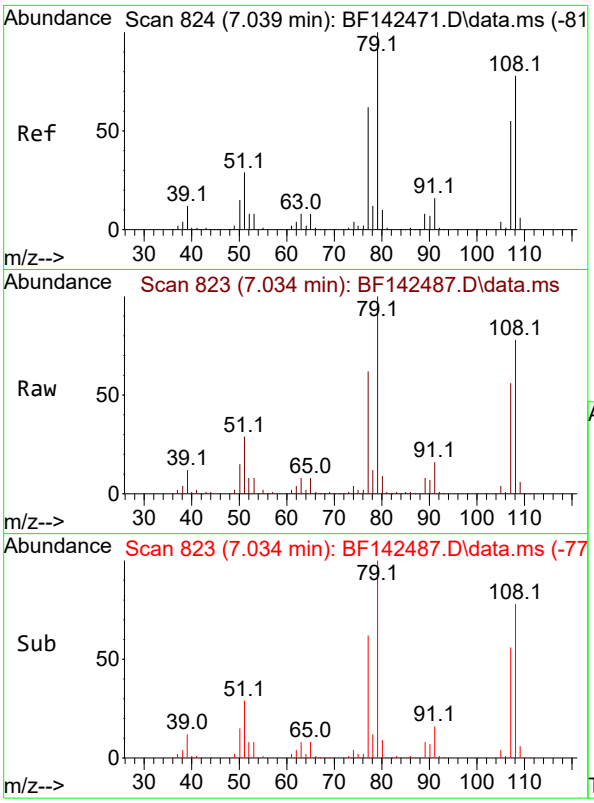


#14
1,2-Dichlorobenzene
Concen: 40.226 ng
RT: 7.069 min Scan# 829
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:146 Resp: 153379

Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.0	76.4
111	42.3	35.0	52.6



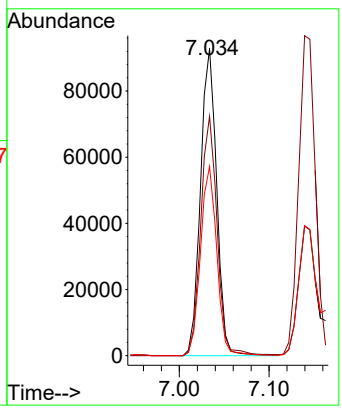


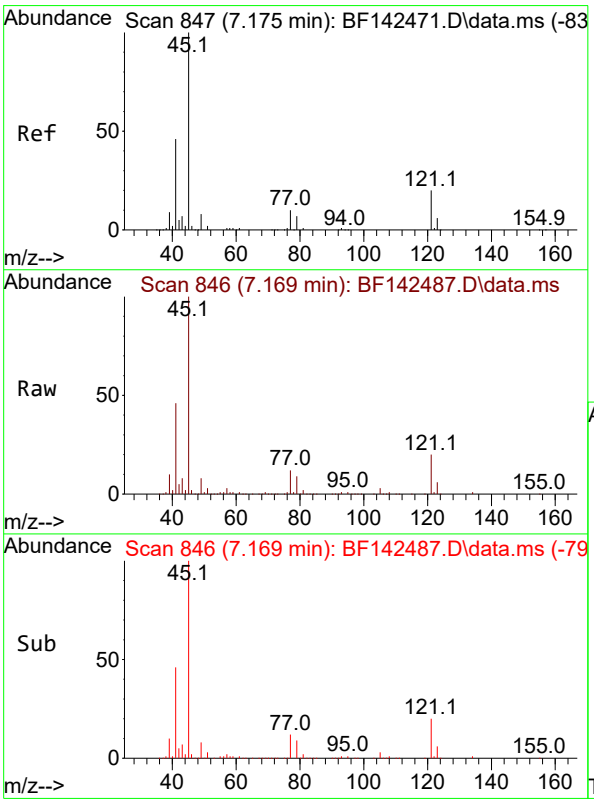
#15
Benzyl Alcohol
Concen: 40.178 ng
RT: 7.034 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion: 79 Resp: 116330

Ion	Ratio	Lower	Upper
79	100		
108	77.9	62.1	93.1
77	61.6	49.5	74.3

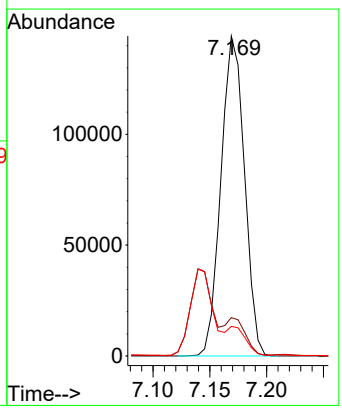


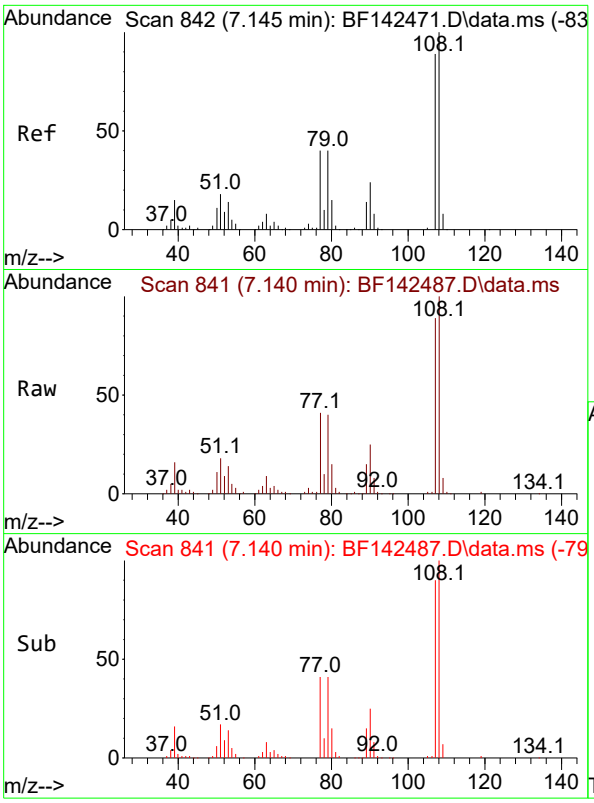


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.993 ng
RT: 7.169 min Scan# 846
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion: 45 Resp: 207807

Ion	Ratio	Lower	Upper
45	100		
77	12.0	0.0	32.0
79	9.2	0.0	29.2



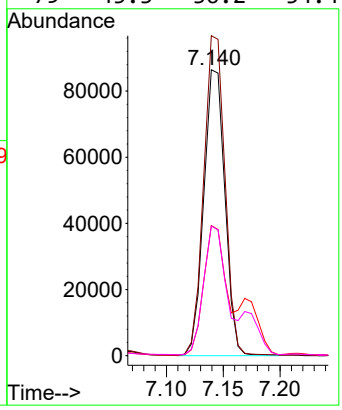


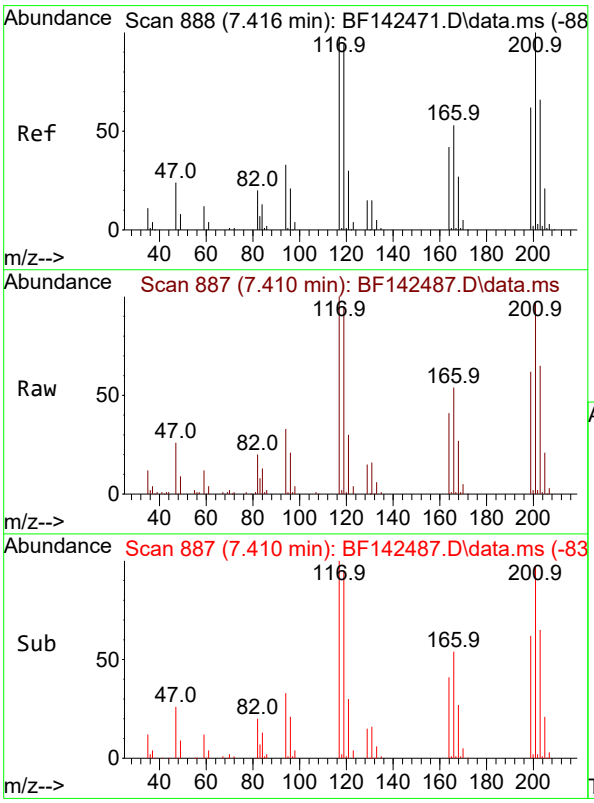
#17
2-Methylphenol
Concen: 40.510 ng
RT: 7.140 min Scan# 84
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:107 Resp: 112125

Ion	Ratio	Lower	Upper
107	100		
108	111.9	90.2	135.2
77	45.5	36.1	54.1
79	45.3	36.2	54.4

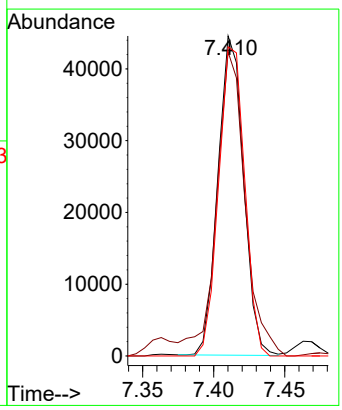


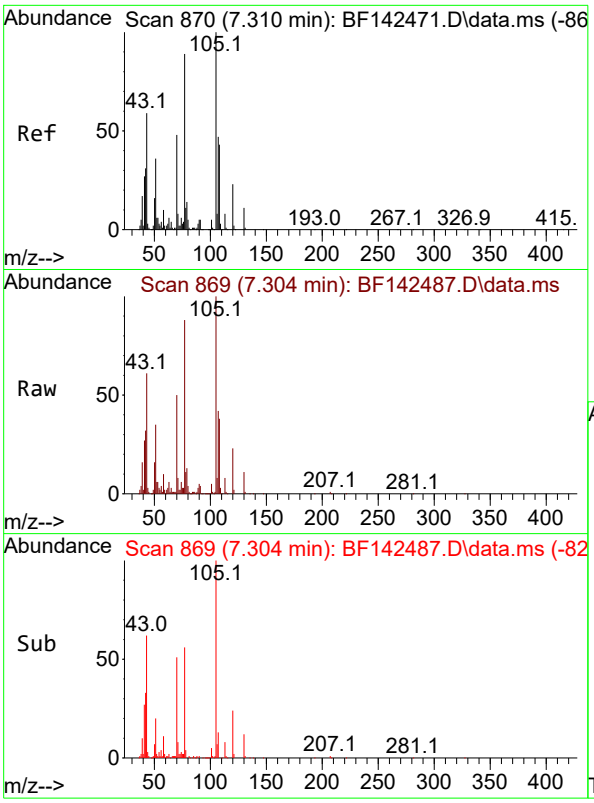


#18
Hexachloroethane
Concen: 40.136 ng
RT: 7.410 min Scan# 887
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:117 Resp: 55846

Ion	Ratio	Lower	Upper
117	100		
119	95.0	76.6	114.8
201	96.6	81.3	121.9



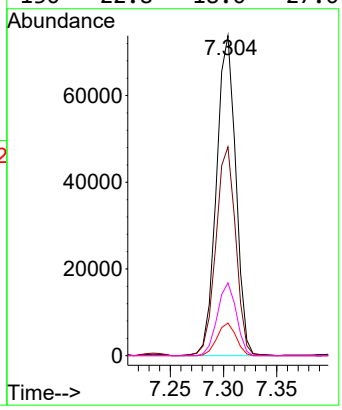


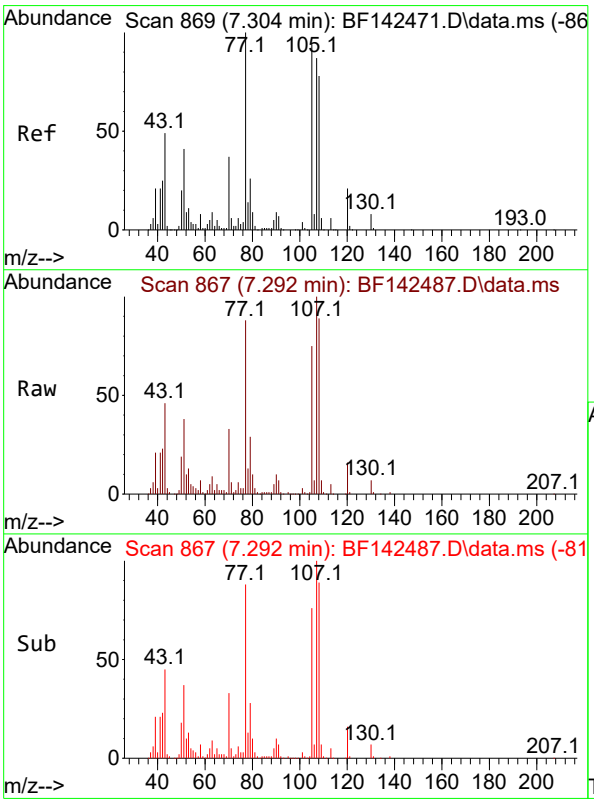
#19
n-Nitroso-di-n-propylamine
Concen: 38.396 ng
RT: 7.304 min Scan# 8
Delta R.T. -0.023 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion: 70 Resp: 93232

Ion	Ratio	Lower	Upper
70	100		
42	65.3	52.4	78.6
101	10.2	7.8	11.8
130	22.8	18.0	27.0

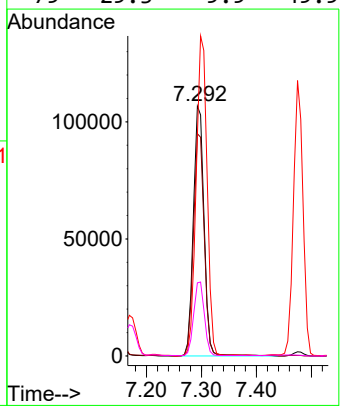


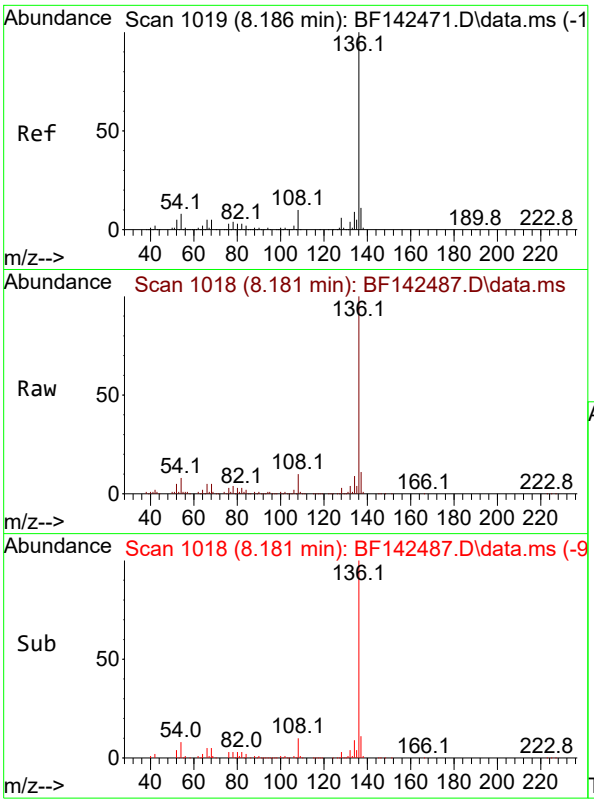


#20
3+4-Methylphenols
Concen: 40.713 ng
RT: 7.292 min Scan# 867
Delta R.T. -0.018 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:107 Resp: 144305

Ion	Ratio	Lower	Upper
107	100		
108	88.9	70.4	110.4
77	88.2	95.4	135.4#
79	29.3	9.9	49.9



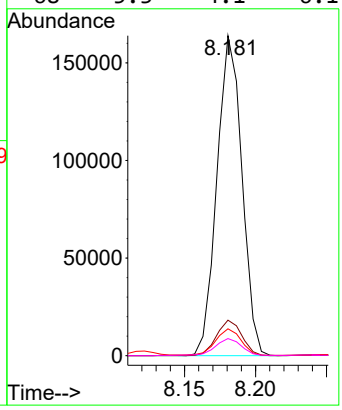


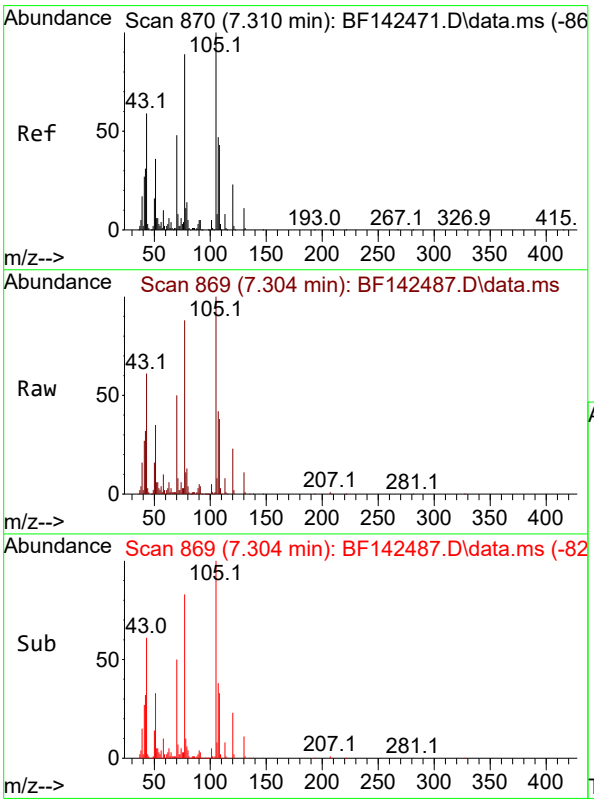
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:136 Resp: 200654

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	8.4	6.6	10.0
68	5.3	4.1	6.1

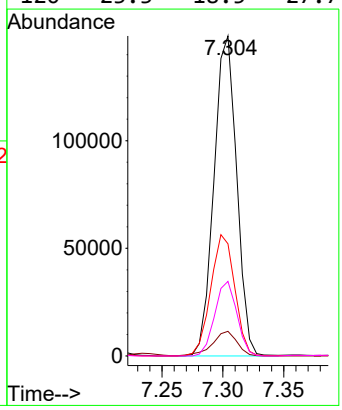


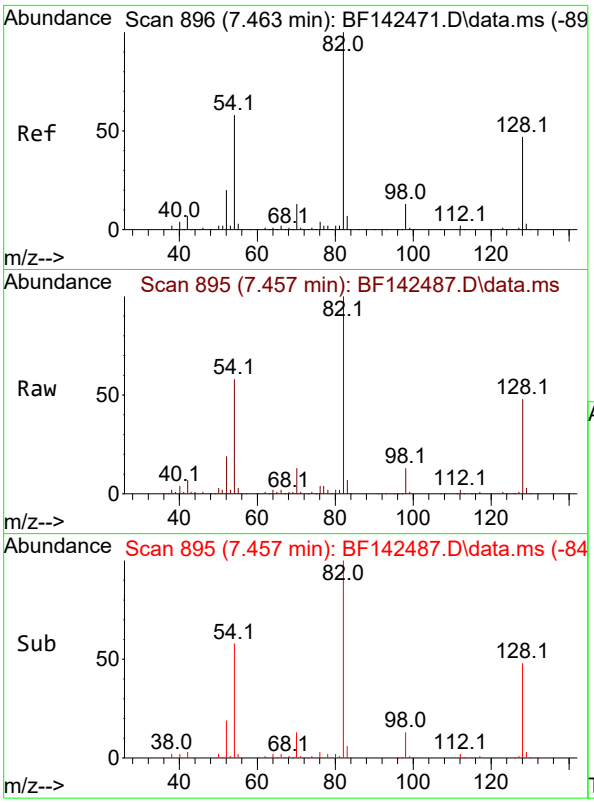


#22
Acetophenone
Concen: 43.554 ng
RT: 7.304 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:105 Resp: 193459

Ion	Ratio	Lower	Upper
105	100		
71	7.7	6.4	9.6
51	35.0	28.6	42.8
120	23.3	18.5	27.7



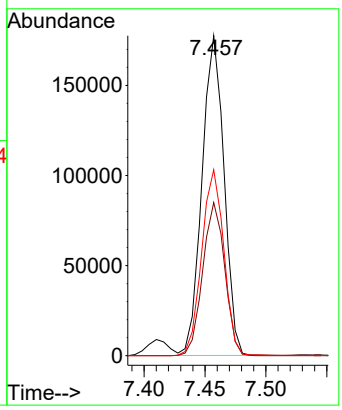


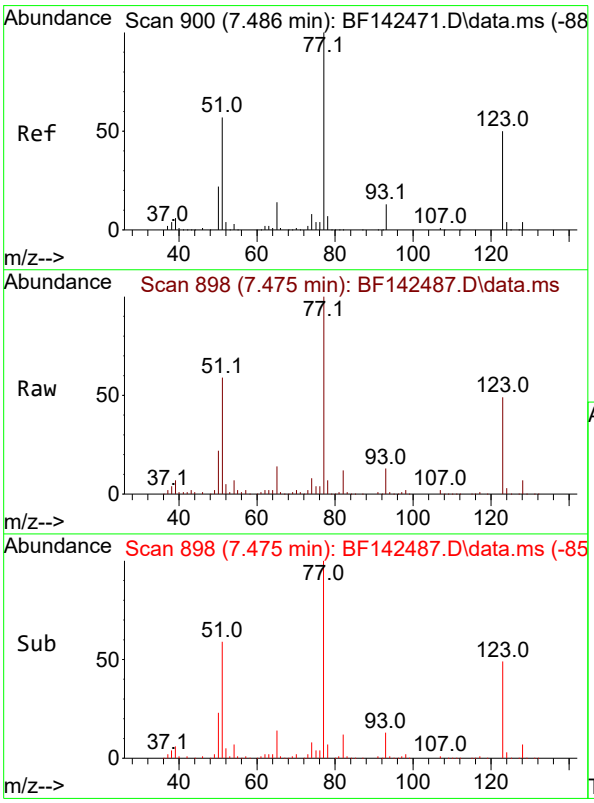
#23
Nitrobenzene-d5
Concen: 60.428 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion: 82 Resp: 222361

Ion	Ratio	Lower	Upper
82	100		
128	47.8	37.4	56.2
54	58.1	46.6	70.0

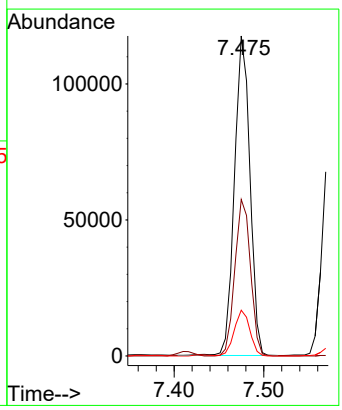


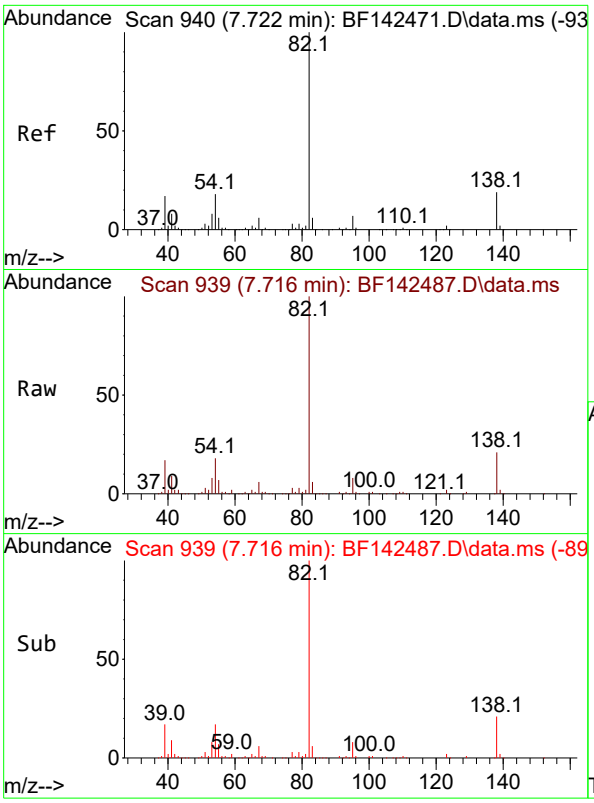


#24
Nitrobenzene
Concen: 42.492 ng
RT: 7.475 min Scan# 898
Delta R.T. -0.018 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion: 77 Resp: 141023

Ion	Ratio	Lower	Upper
77	100		
123	48.9	40.6	61.0
65	14.3	11.4	17.2



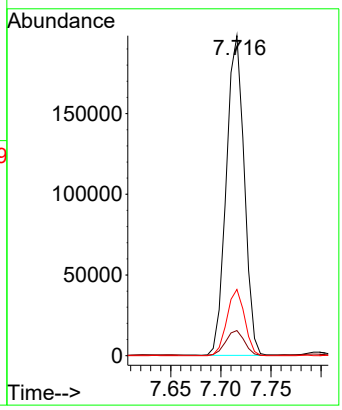


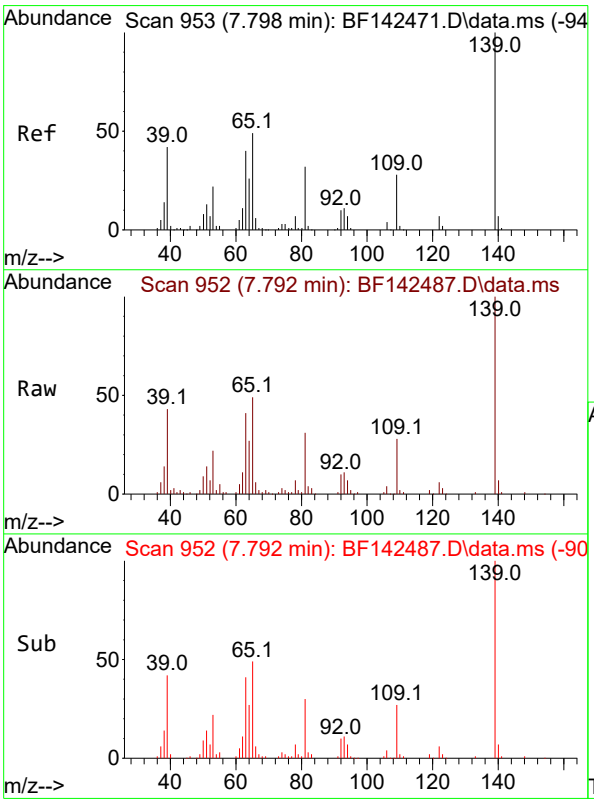
#25
Isophorone
Concen: 40.136 ng
RT: 7.716 min Scan# 9
Delta R.T. -0.018 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion: 82 Resp: 246928

Ion	Ratio	Lower	Upper
82	100		
95	7.9	6.0	9.0
138	20.7	15.5	23.3

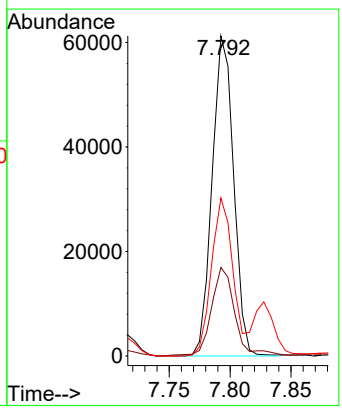


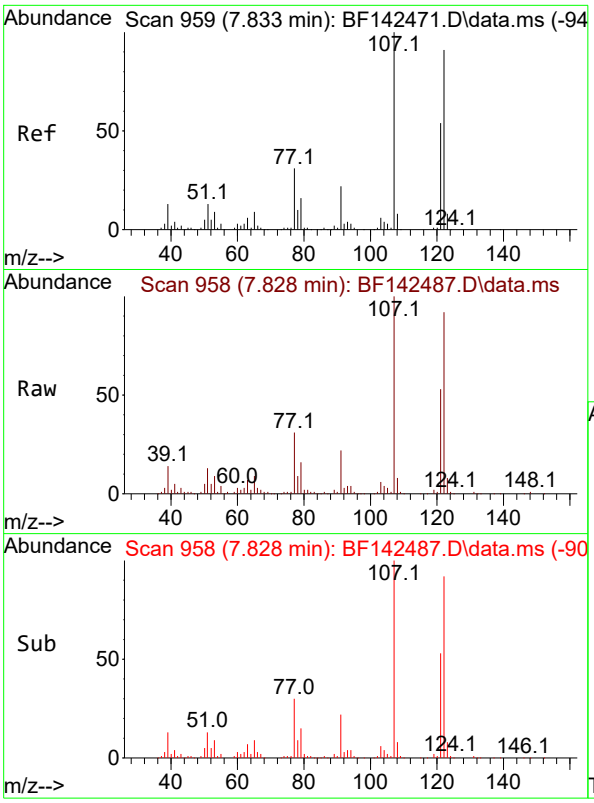


#26
2-Nitrophenol
Concen: 42.480 ng
RT: 7.792 min Scan# 952
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:139 Resp: 75333

Ion	Ratio	Lower	Upper
139	100		
109	27.6	22.6	33.8
65	49.4	39.4	59.0



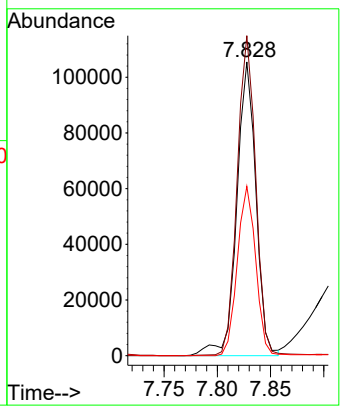


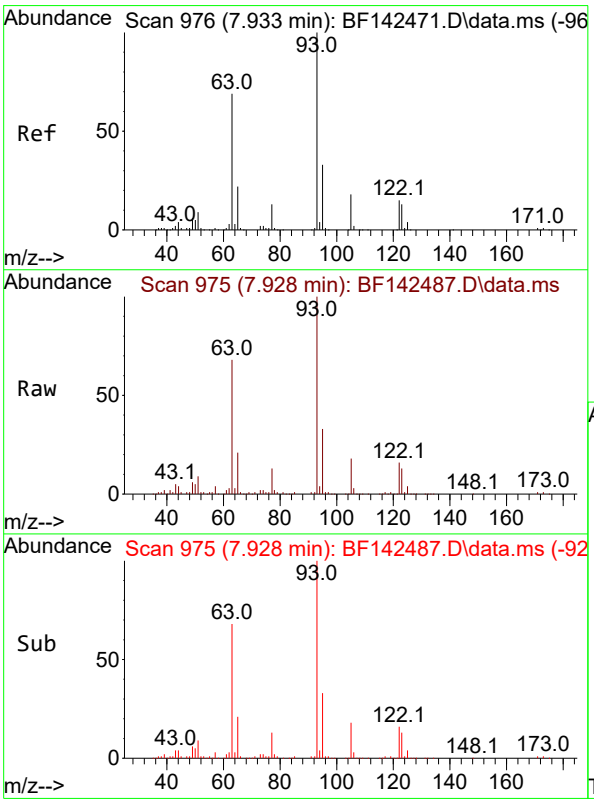
#27
2,4-Dimethylphenol
Concen: 42.346 ng
RT: 7.828 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:122 Resp: 132431

Ion	Ratio	Lower	Upper
122	100		
107	109.0	88.1	132.1
121	57.6	47.3	70.9

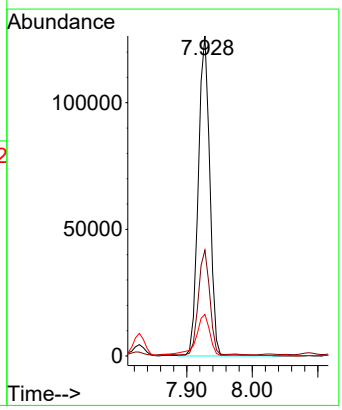


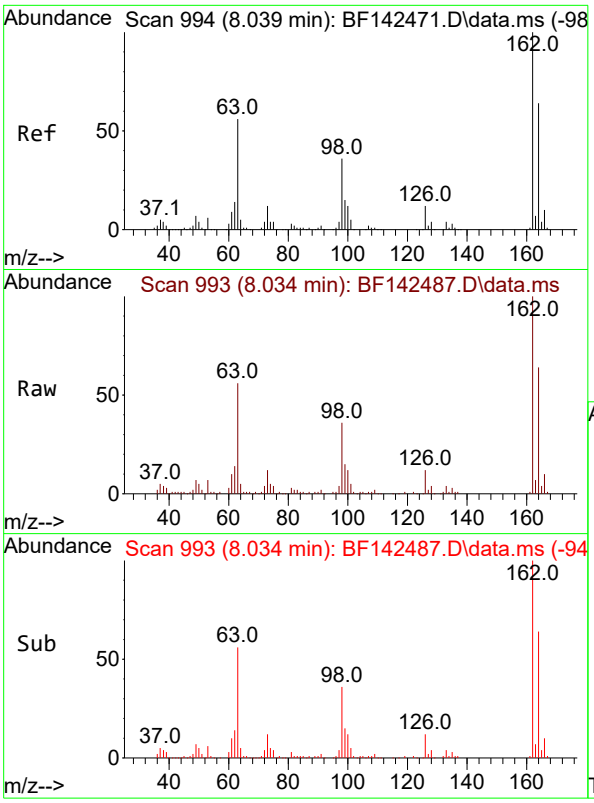


#28
bis(2-Chloroethoxy)methane
Concen: 40.240 ng
RT: 7.928 min Scan# 975
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion: 93 Resp: 154653

Ion	Ratio	Lower	Upper
93	100		
95	33.1	26.4	39.6
123	13.0	10.6	15.8



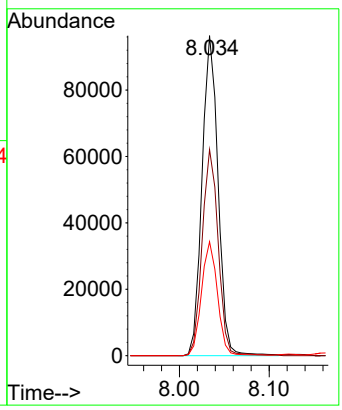


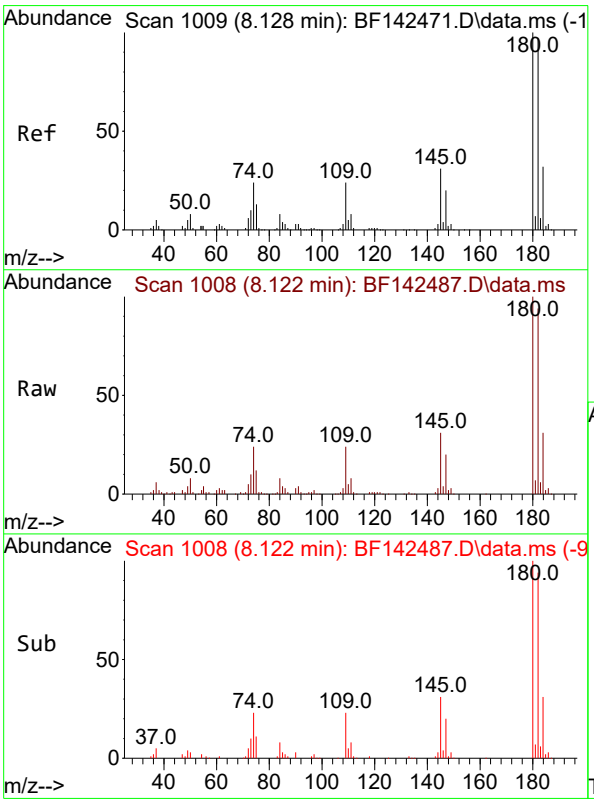
#29
2,4-Dichlorophenol
Concen: 42.087 ng
RT: 8.034 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:162 Resp: 119698

Ion	Ratio	Lower	Upper
162	100		
164	64.4	43.7	83.7
98	35.6	15.5	55.5

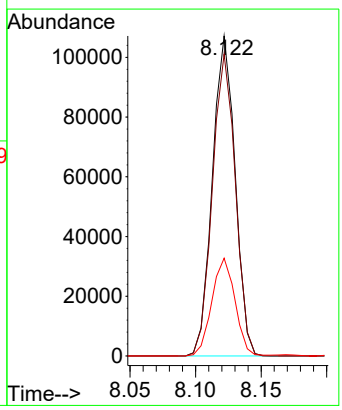


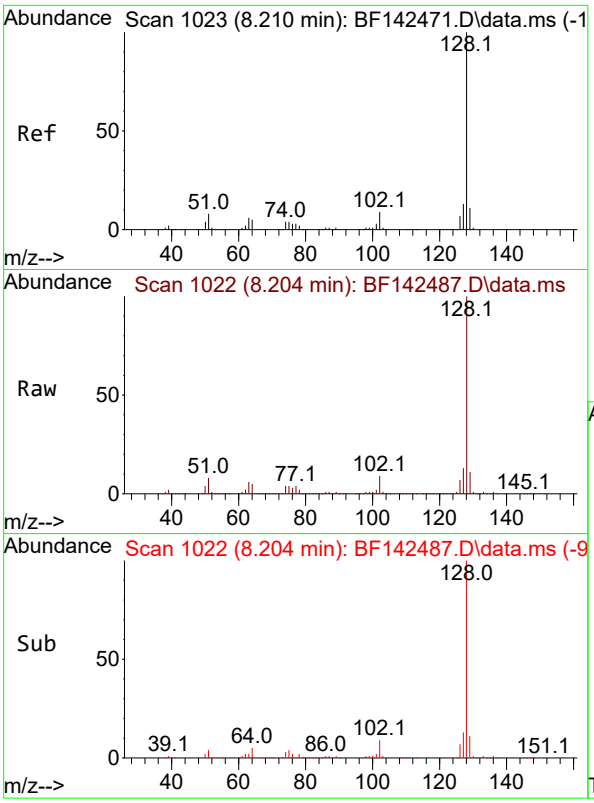


#30
1,2,4-Trichlorobenzene
Concen: 41.750 ng
RT: 8.122 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:180 Resp: 128865

Ion	Ratio	Lower	Upper
180	100		
182	94.3	78.0	117.0
145	30.6	25.0	37.6



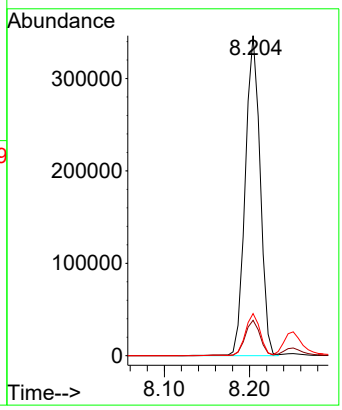


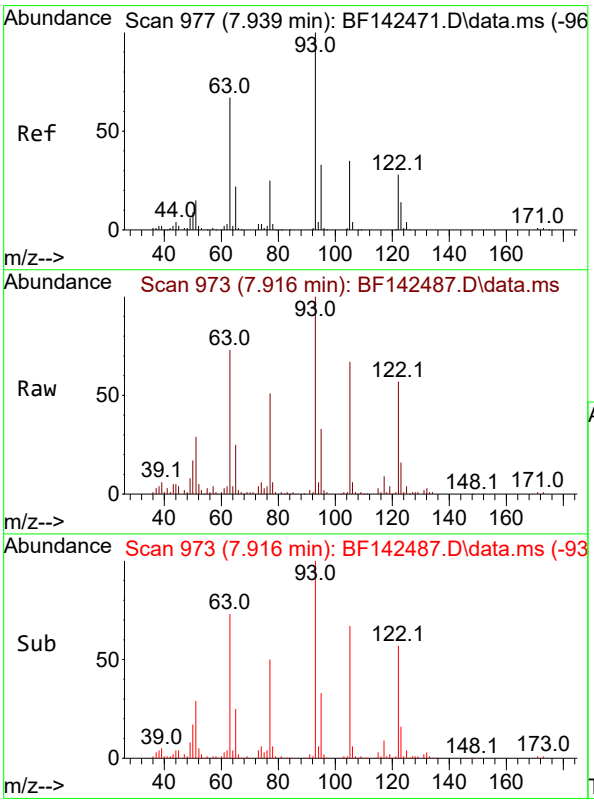
#31
Naphthalene
Concen: 42.437 ng
RT: 8.204 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:128 Resp: 419286

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.9	13.3
127	13.1	10.5	15.7

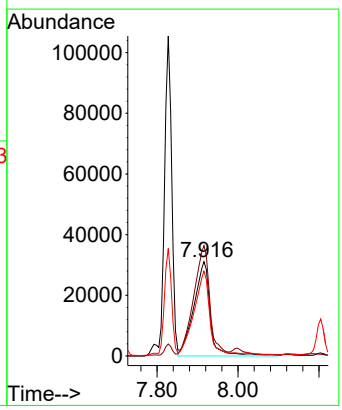


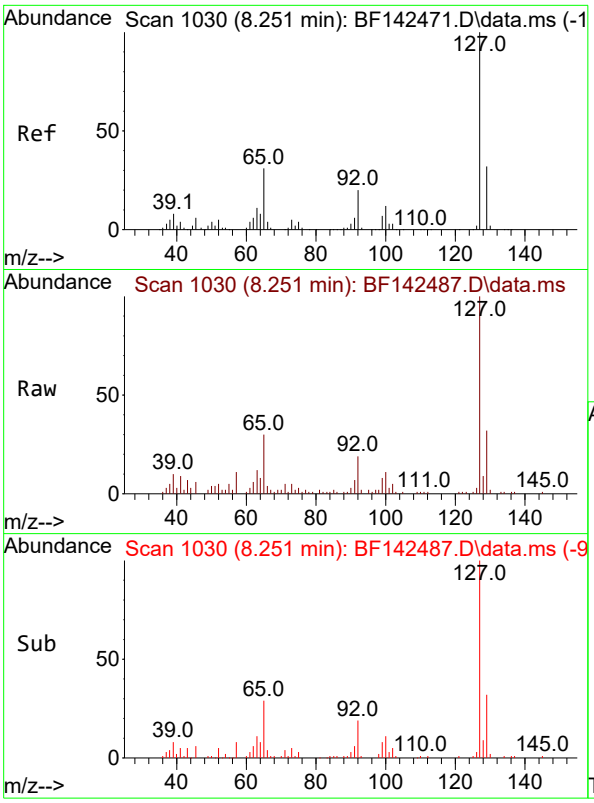


#32
Benzoic acid
Concen: 46.448 ng m
RT: 7.916 min Scan# 973
Delta R.T. -0.059 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:122 Resp: 88423

Ion	Ratio	Lower	Upper
122	100		
105	117.2	101.7	141.7
77	90.0	69.5	109.5



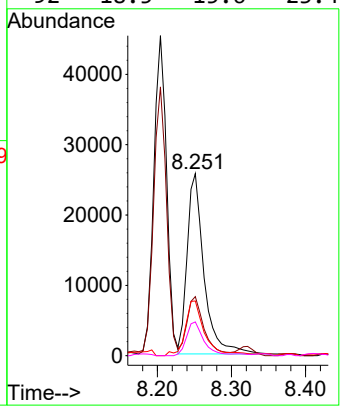


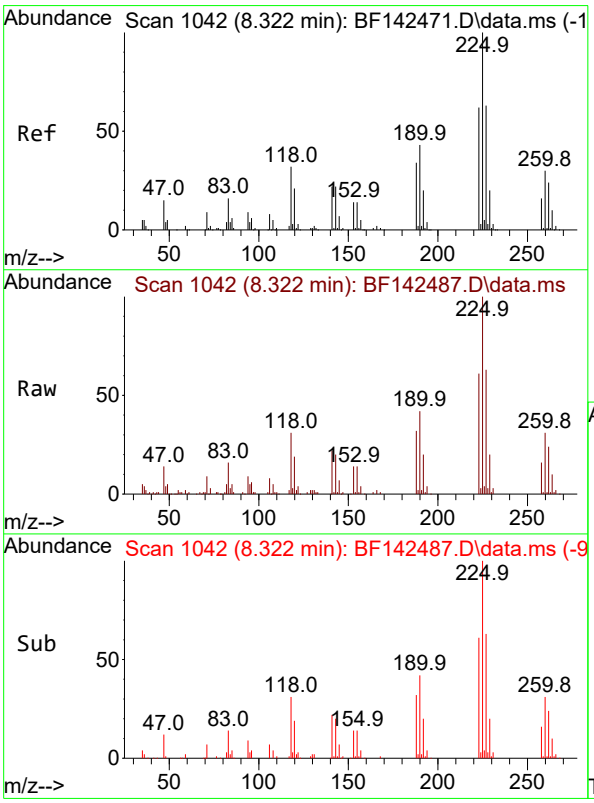
#33
4-Chloroaniline
Concen: 10.183 ng
RT: 8.251 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:127 Resp: 40768

Ion	Ratio	Lower	Upper
127	100		
129	32.4	26.1	39.1
65	30.1	24.9	37.3
92	18.5	15.6	23.4

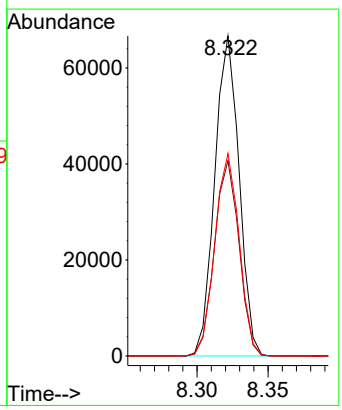


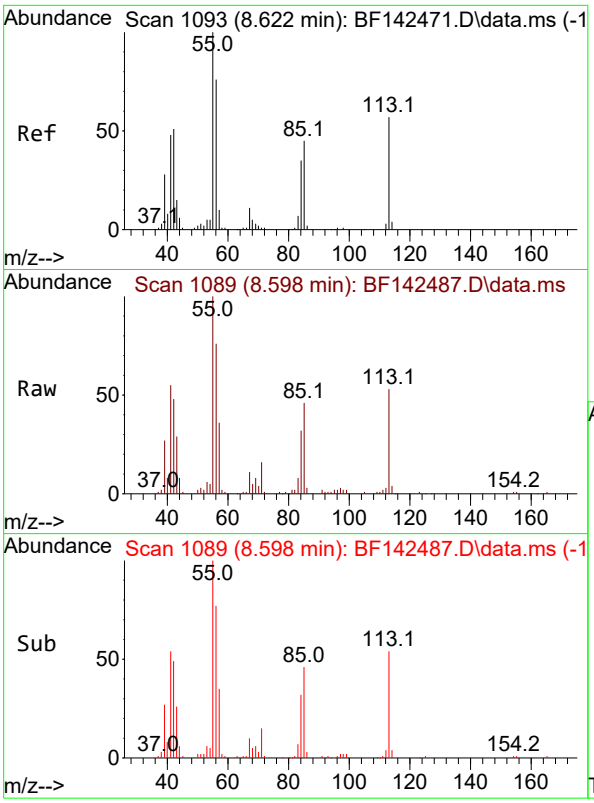


#34
Hexachlorobutadiene
Concen: 41.136 ng
RT: 8.322 min Scan# 1042
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:225 Resp: 79280

Ion	Ratio	Lower	Upper
225	100		
223	61.0	49.7	74.5
227	63.2	50.3	75.5



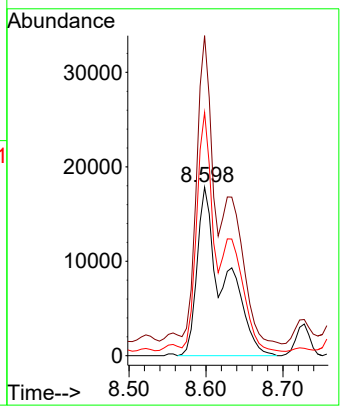


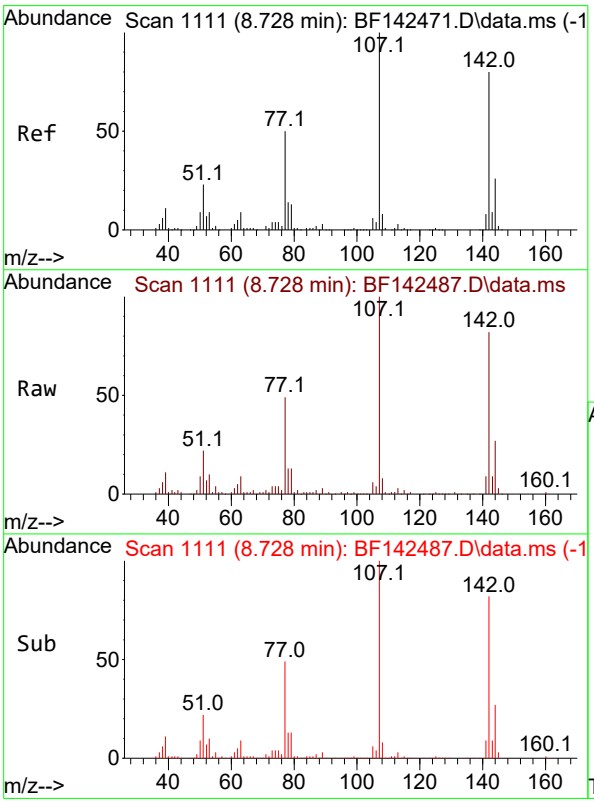
#35
Caprolactam
Concen: 54.613 ng m
RT: 8.598 min Scan# 1
Delta R.T. -0.047 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:113 Resp: 43624

Ion	Ratio	Lower	Upper
113	100		
55	190.0	154.7	194.7
56	144.4	113.2	153.2

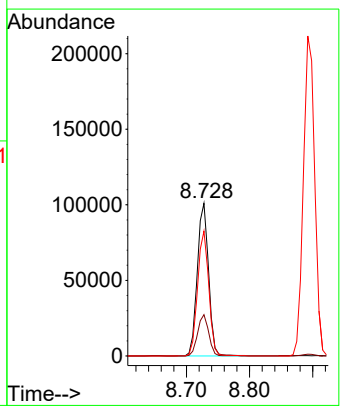


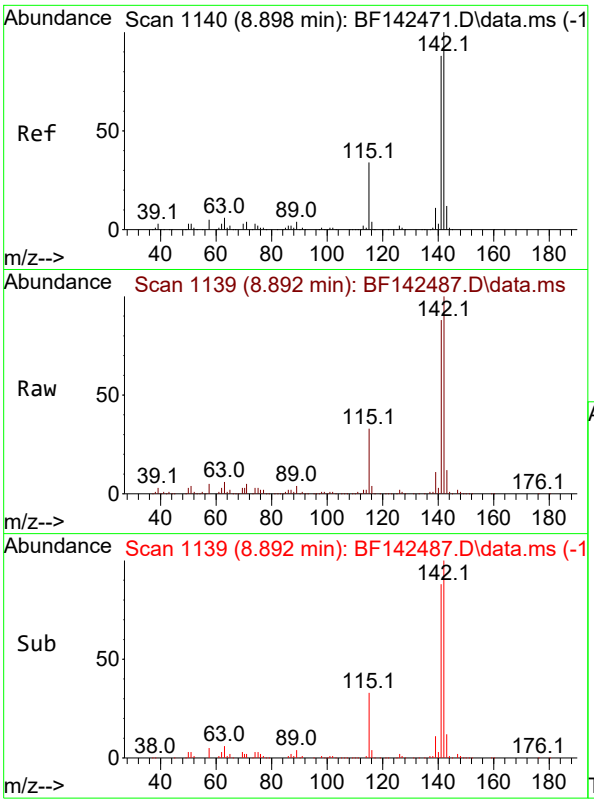


#36
4-Chloro-3-methylphenol
Concen: 43.206 ng
RT: 8.728 min Scan# 1111
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:107 Resp: 125934

Ion	Ratio	Lower	Upper
107	100		
144	27.0	20.9	31.3
142	81.8	64.2	96.2



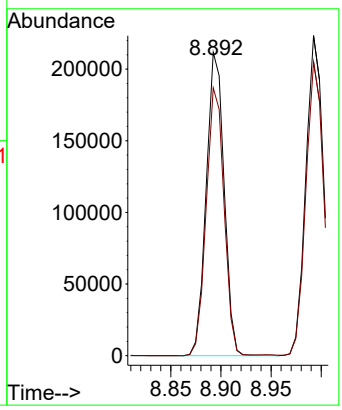


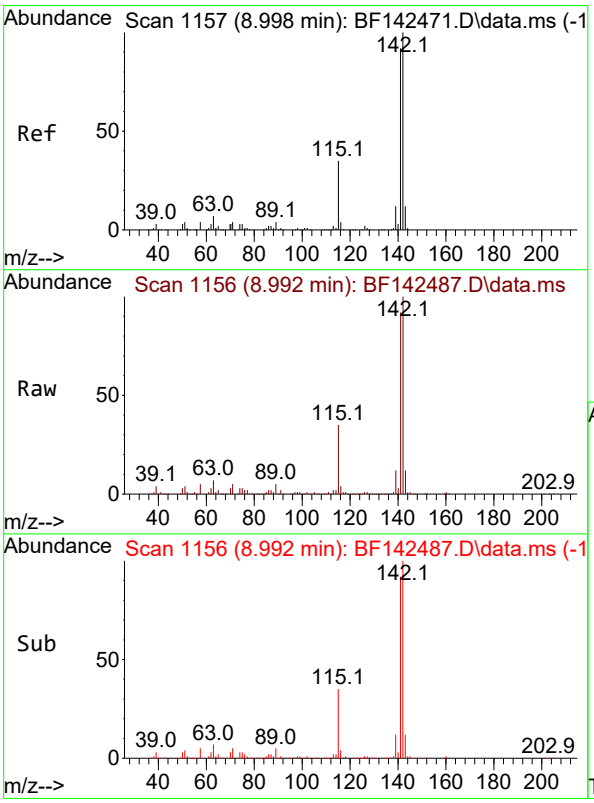
#37
2-Methylnaphthalene
Concen: 42.270 ng
RT: 8.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:142 Resp: 262739

Ion	Ratio	Lower	Upper
142	100		
141	88.3	70.7	106.1

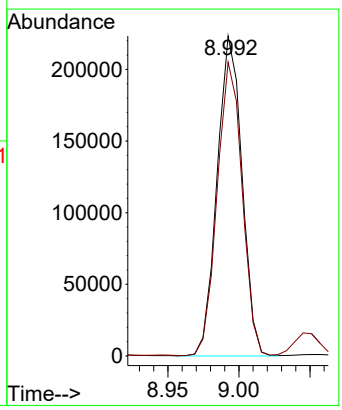


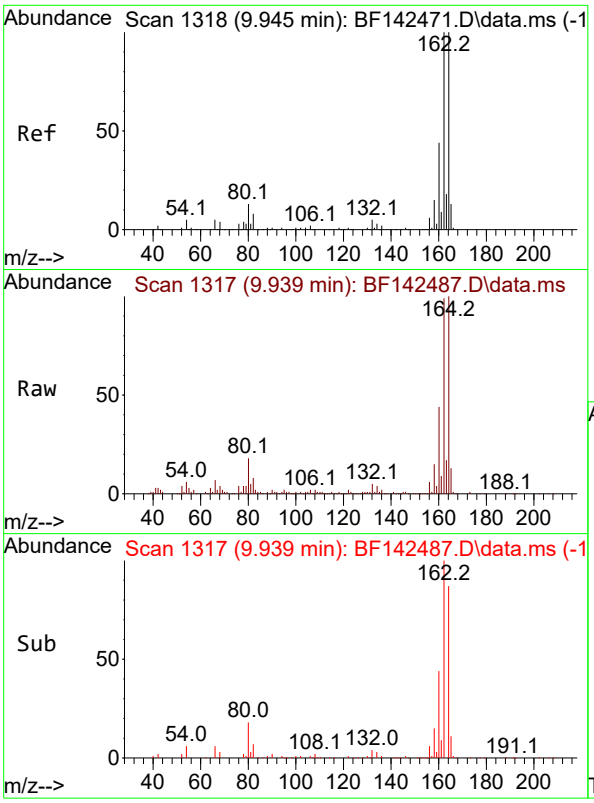


#38
1-Methylnaphthalene
Concen: 42.320 ng
RT: 8.992 min Scan# 1156
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:142 Resp: 272097

Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.4	110.2



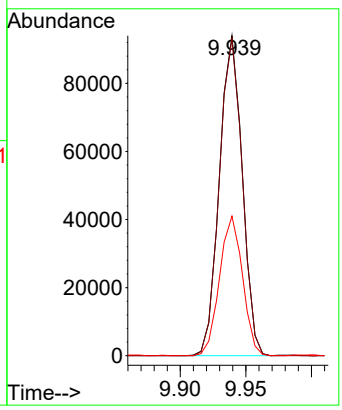


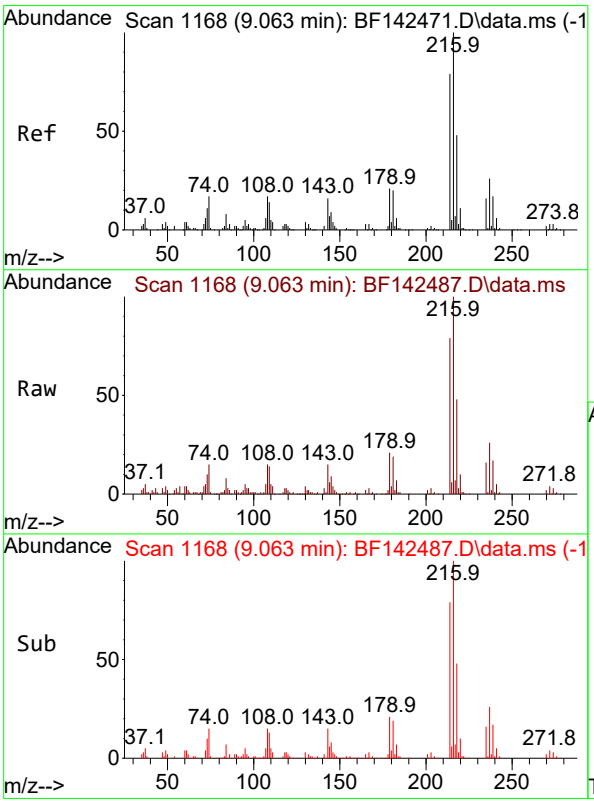
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:164 Resp: 113830

Ion	Ratio	Lower	Upper
164	100		
162	99.1	80.2	120.4
160	43.6	35.6	53.4

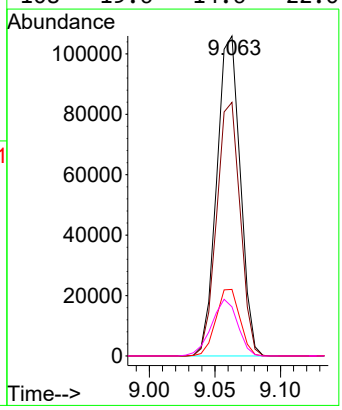


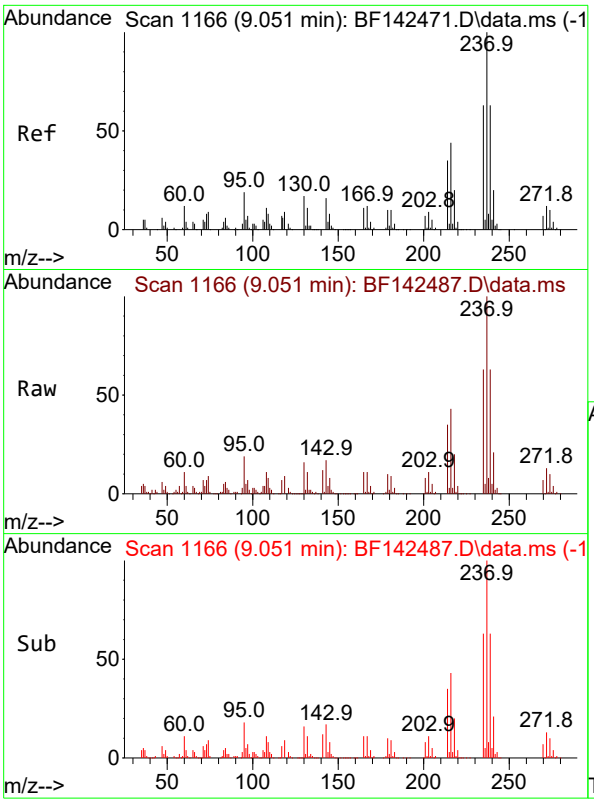


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.437 ng
RT: 9.063 min Scan# 1168
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:216 Resp: 132130

Ion	Ratio	Lower	Upper
216	100		
214	79.3	62.9	94.3
179	21.2	16.9	25.3
108	19.6	14.6	22.0



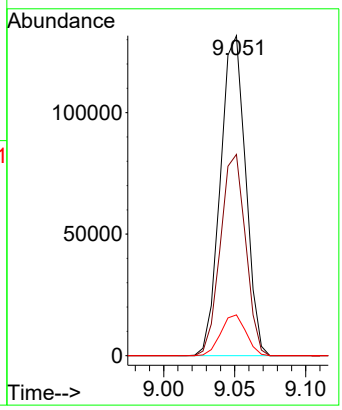


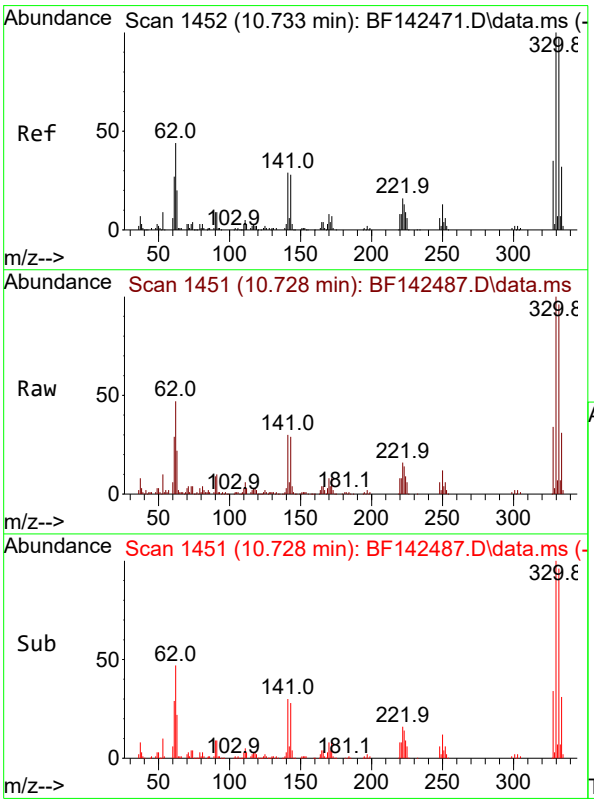
#41
Hexachlorocyclopentadiene
Concen: 73.672 ng
RT: 9.051 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:237 Resp: 162392

Ion	Ratio	Lower	Upper
237	100		
235	62.9	43.3	83.3
272	12.8	0.0	32.4

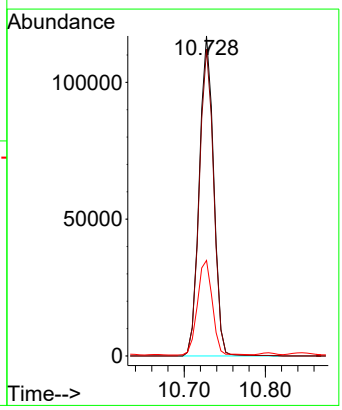


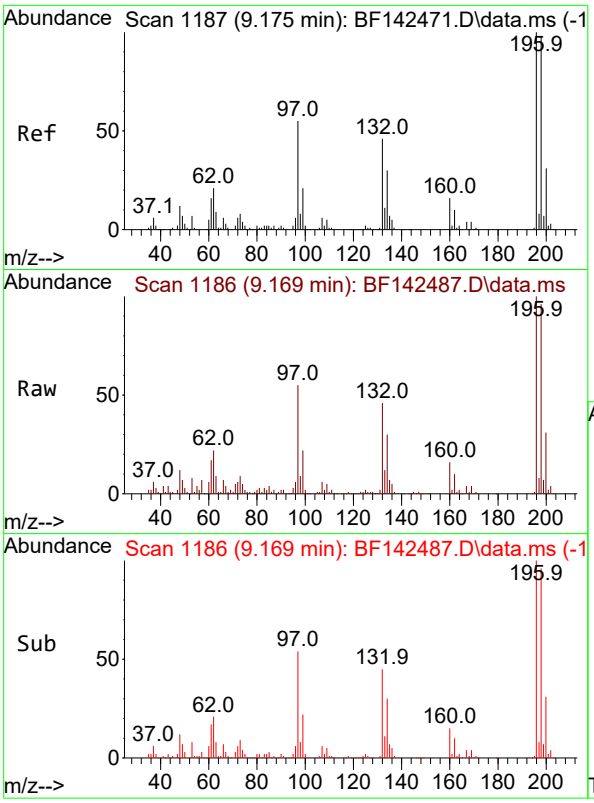


#42
2,4,6-Tribromophenol
Concen: 113.457 ng
RT: 10.728 min Scan# 1451
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:330 Resp: 143338

Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.6	116.4
141	30.7	24.6	36.8



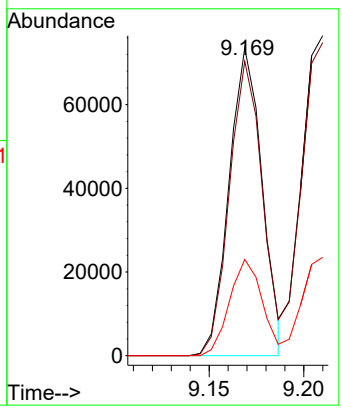


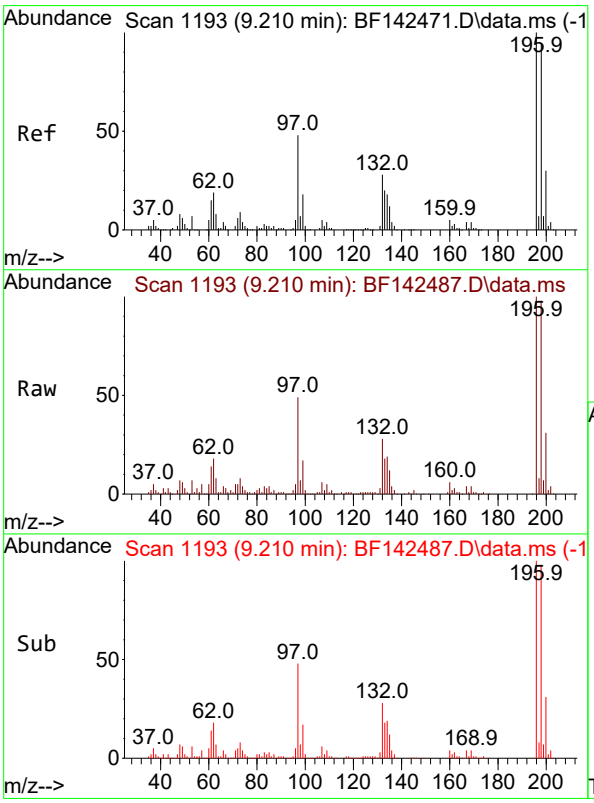
#43
2,4,6-Trichlorophenol
Concen: 40.459 ng
RT: 9.169 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:196 Resp: 89146

Ion	Ratio	Lower	Upper
196	100		
198	95.6	78.8	118.2
200	31.2	24.9	37.3

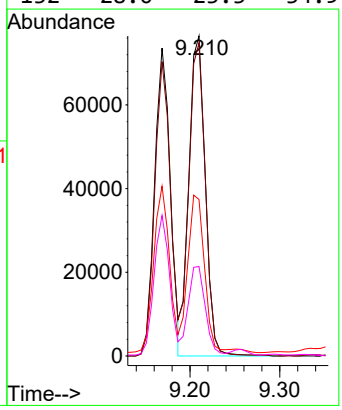


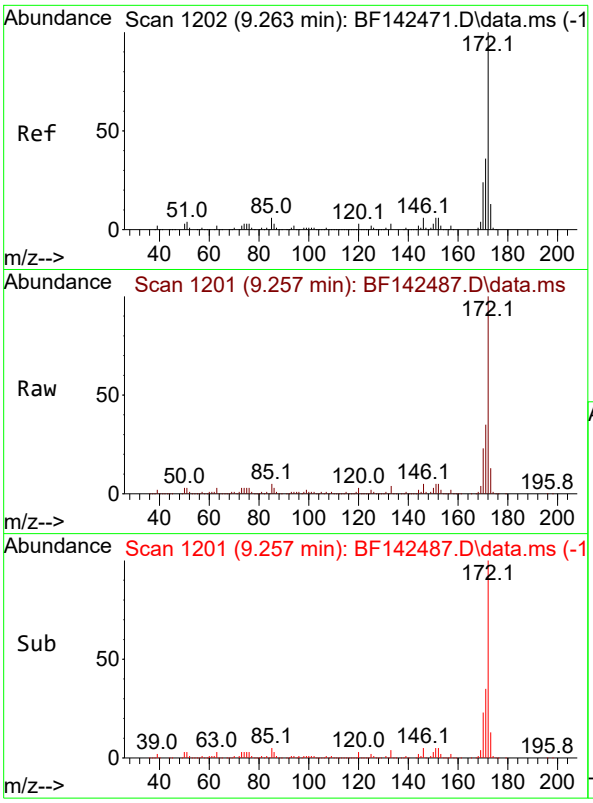


#44
2,4,5-Trichlorophenol
Concen: 41.972 ng
RT: 9.210 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:196 Resp: 97535

Ion	Ratio	Lower	Upper
196	100		
198	97.8	75.5	113.3
97	48.9	39.3	58.9
132	28.0	23.3	34.9



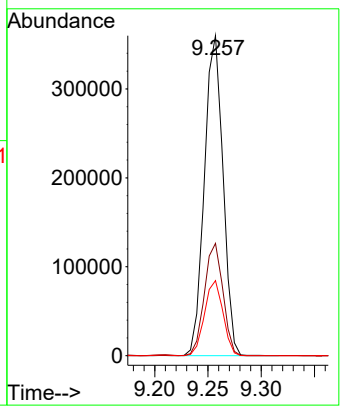


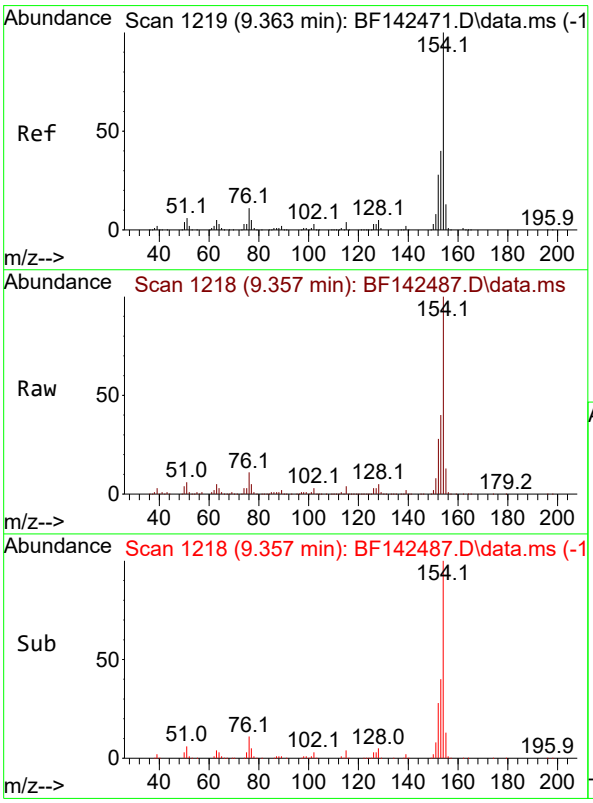
#45
2-Fluorobiphenyl
Concen: 51.603 ng
RT: 9.257 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:172 Resp: 437751

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.6	42.8
170	23.4	18.9	28.3

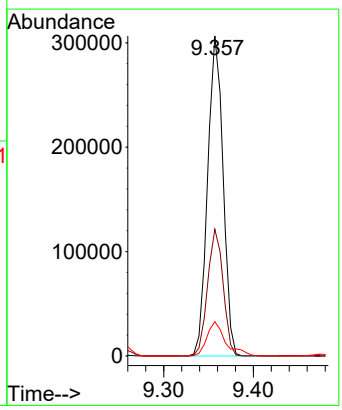


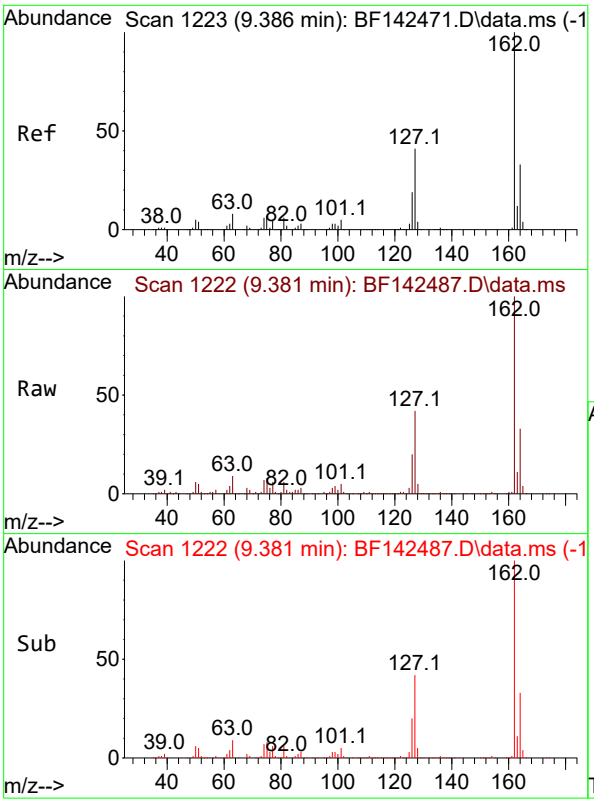


#46
1,1'-Biphenyl
Concen: 41.450 ng
RT: 9.357 min Scan# 1218
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:154 Resp: 366054

Ion	Ratio	Lower	Upper
154	100		
153	39.6	20.4	60.4
76	10.7	0.0	30.8



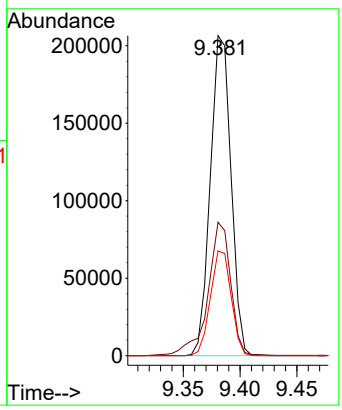


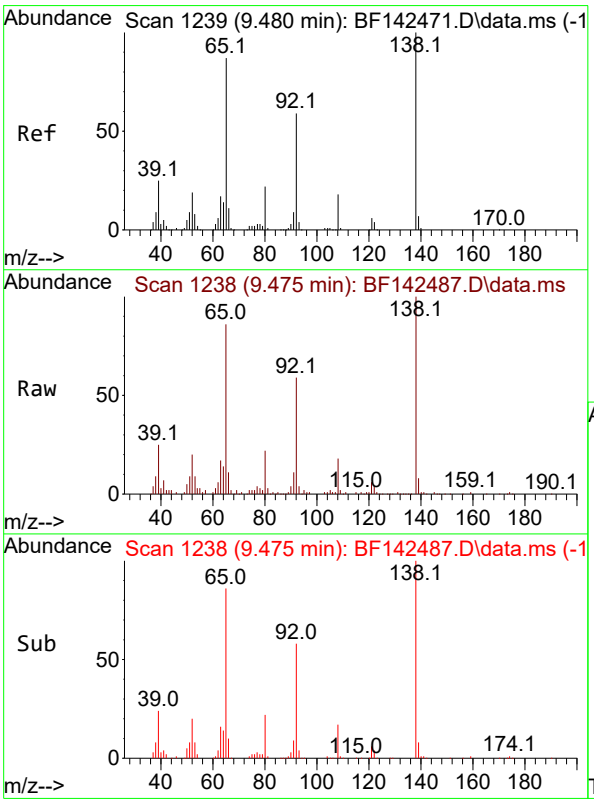
#47
2-Chloronaphthalene
Concen: 40.135 ng
RT: 9.381 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:162 Resp: 261870

Ion	Ratio	Lower	Upper
162	100		
127	41.7	33.5	50.3
164	32.8	26.1	39.1

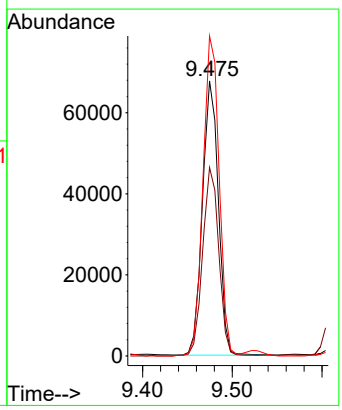


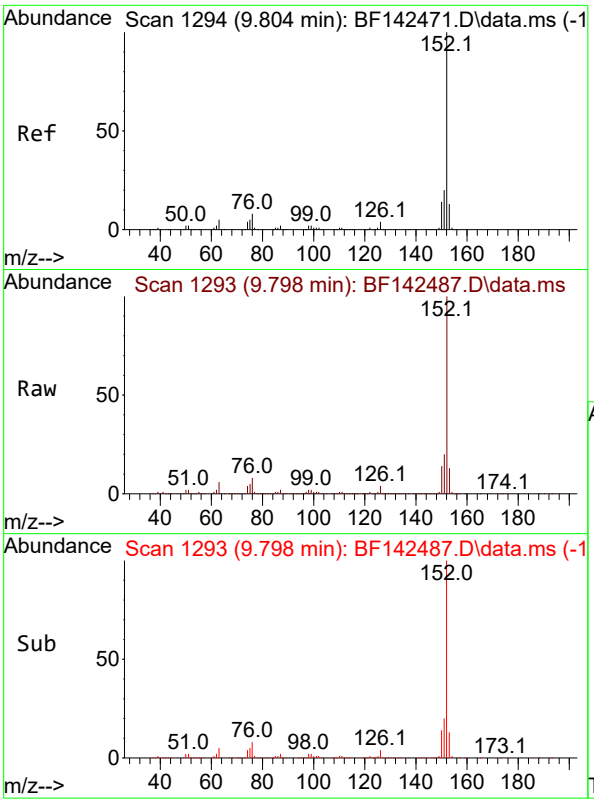


#48
2-Nitroaniline
Concen: 44.275 ng
RT: 9.475 min Scan# 1238
Delta R.T. -0.011 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion: 65 Resp: 83501

Ion	Ratio	Lower	Upper
65	100		
92	68.5	54.4	81.6
138	116.3	91.4	137.2



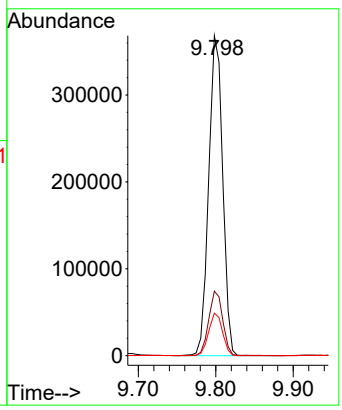


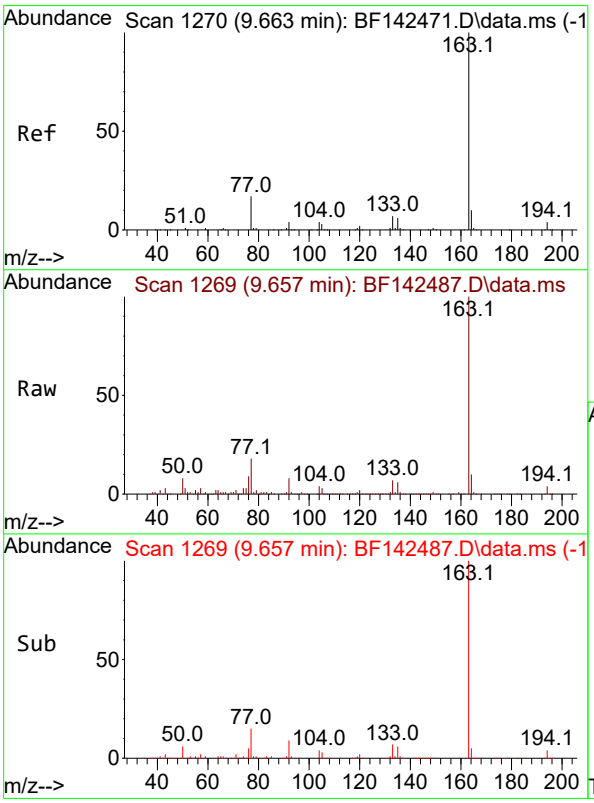
#49
Acenaphthylene
Concen: 41.929 ng
RT: 9.798 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:152 Resp: 461954

Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.8	23.8
153	13.3	10.6	15.8

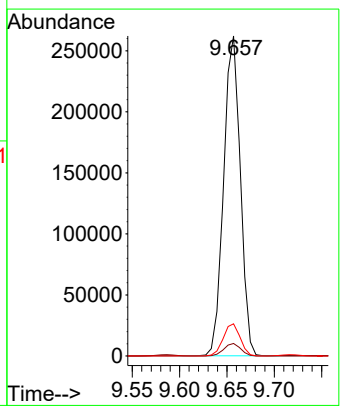


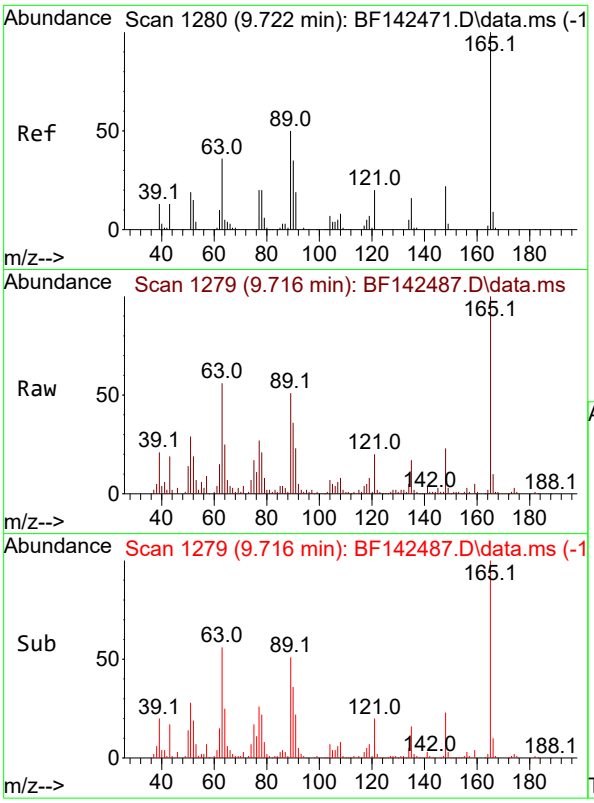


#50
Dimethylphthalate
Concen: 42.833 ng
RT: 9.657 min Scan# 1269
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:163 Resp: 321711

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.3	4.9
164	10.1	8.2	12.4



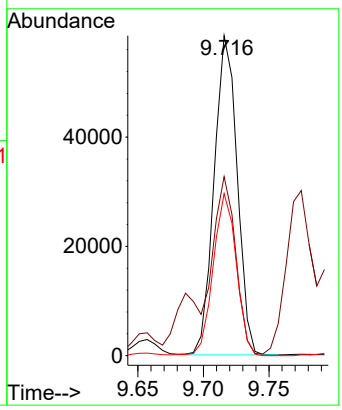


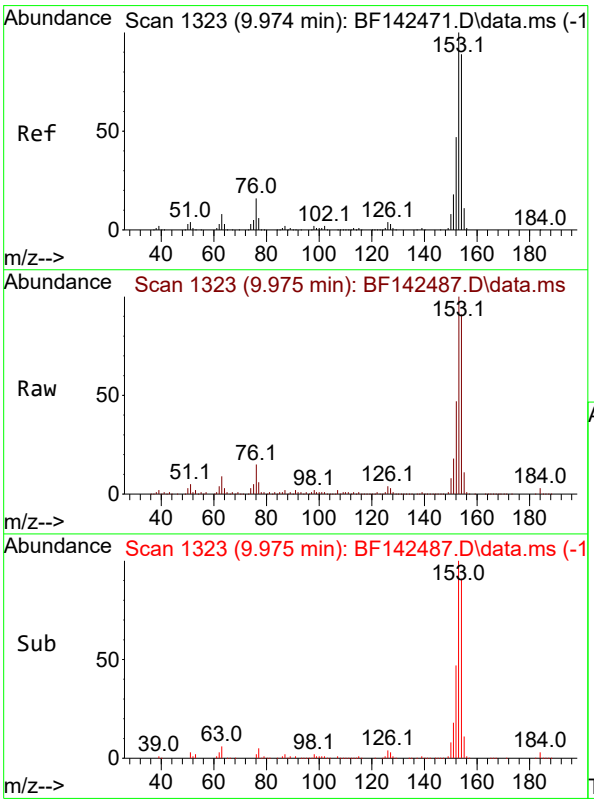
#51
2,6-Dinitrotoluene
Concen: 43.893 ng
RT: 9.716 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:165 Resp: 71155

Ion	Ratio	Lower	Upper
165	100		
63	56.0	42.9	64.3
89	50.7	40.2	60.4

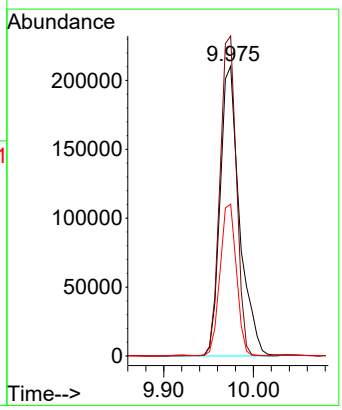


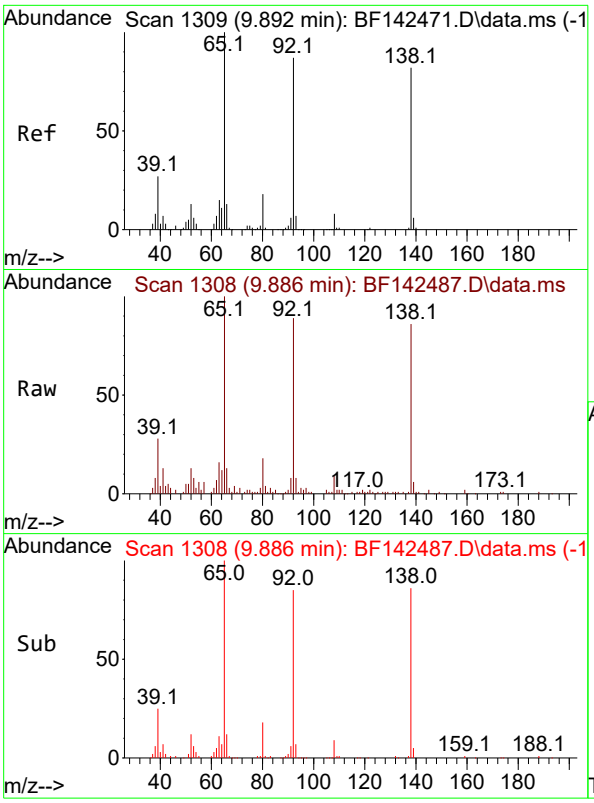


#52
Acenaphthene
Concen: 47.057 ng
RT: 9.975 min Scan# 1323
Delta R.T. -0.005 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:154 Resp: 316584

Ion	Ratio	Lower	Upper
154	100		
153	110.4	90.0	135.0
152	52.4	42.6	64.0



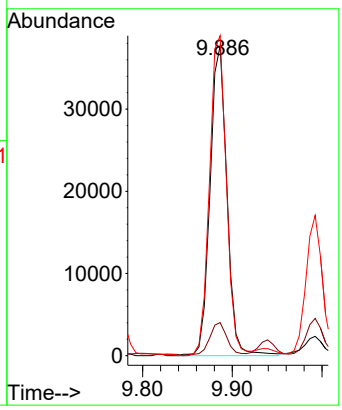


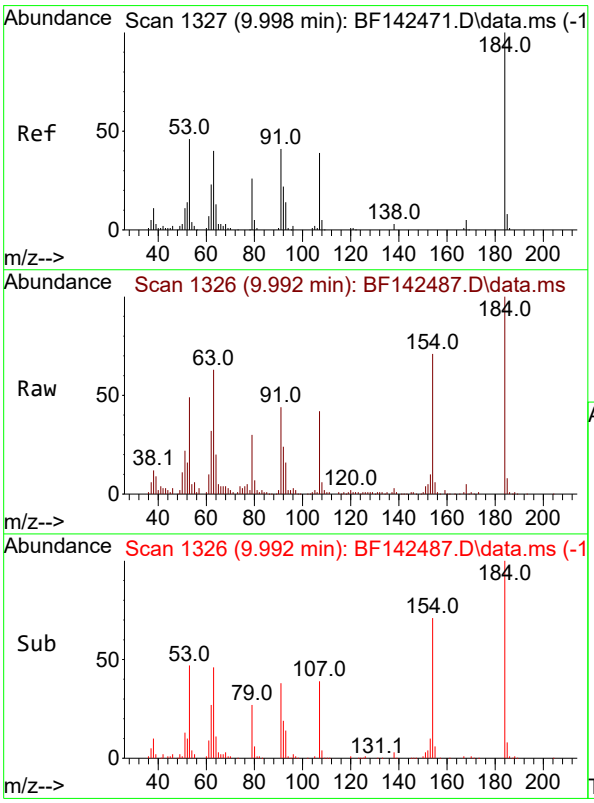
#53
3-Nitroaniline
Concen: 27.800 ng
RT: 9.886 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:138 Resp: 49223

Ion	Ratio	Lower	Upper
138	100		
108	10.7	8.1	12.1
92	103.2	85.2	127.8

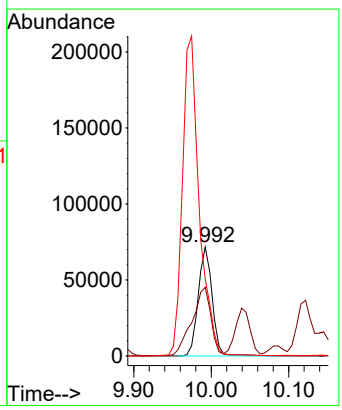


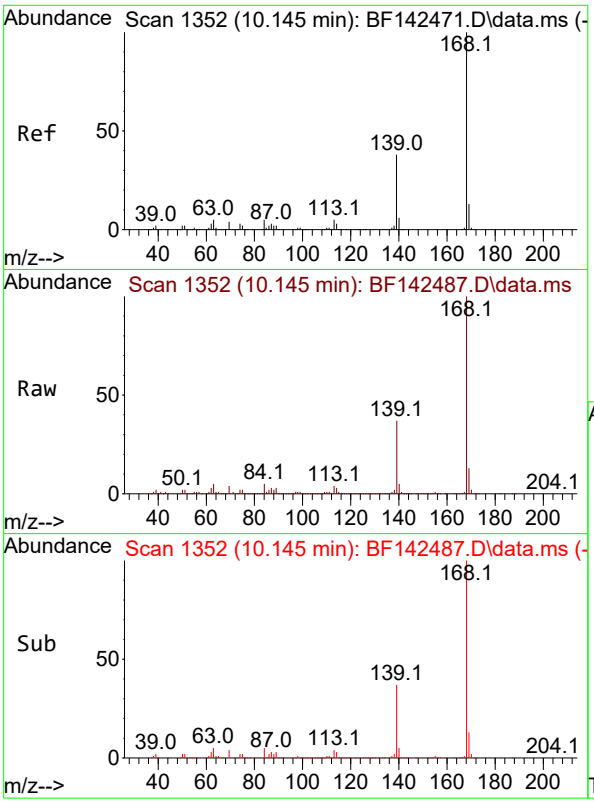


#54
2,4-Dinitrophenol
Concen: 106.777 ng
RT: 9.992 min Scan# 1326
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:184 Resp: 89427

Ion	Ratio	Lower	Upper
184	100		
63	63.1	46.3	69.5
154	70.5	56.8	85.2



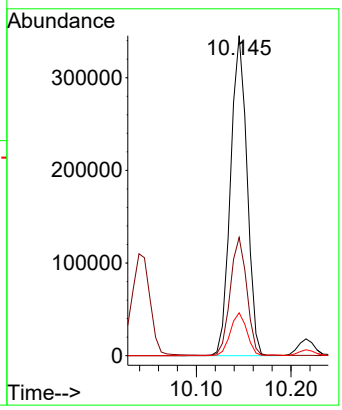


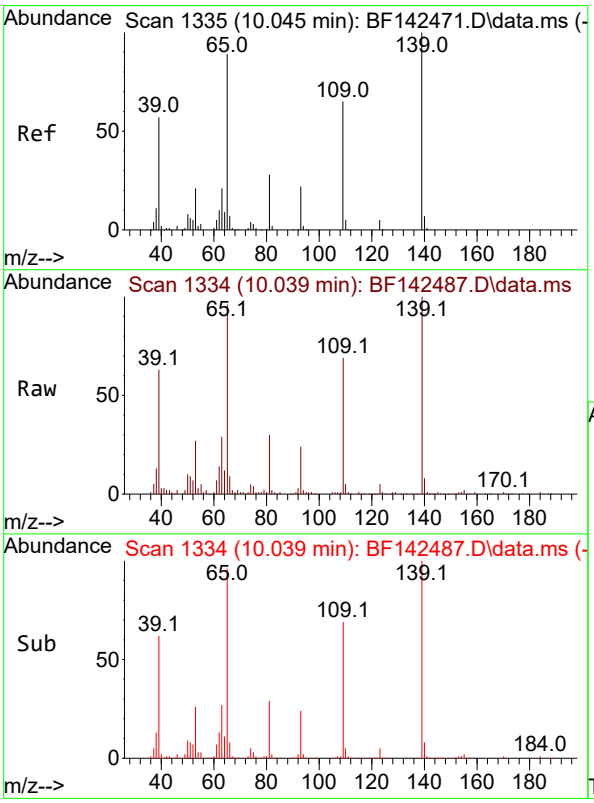
#55
Dibenzofuran
Concen: 43.085 ng
RT: 10.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:168 Resp: 417111

Ion	Ratio	Lower	Upper
168	100		
139	37.0	30.2	45.2
169	13.4	10.7	16.1

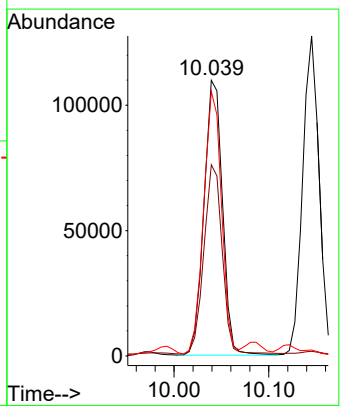


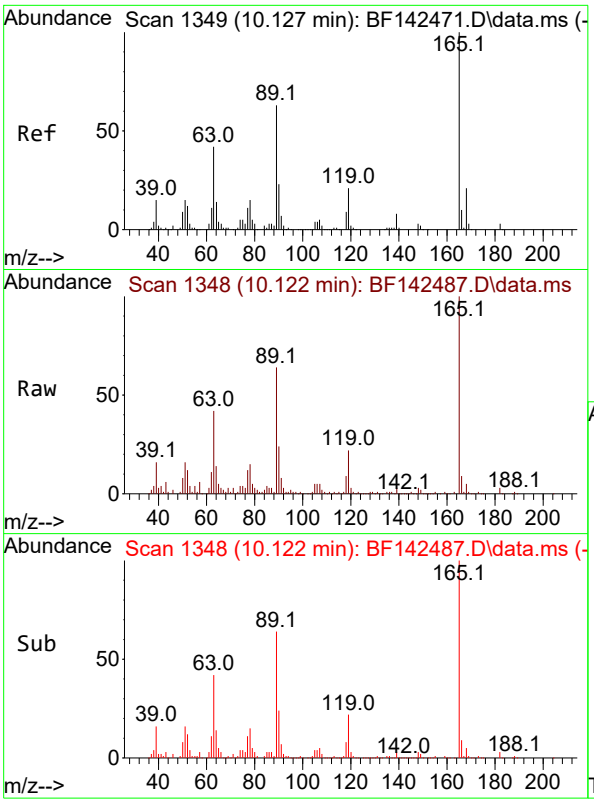


#56
4-Nitrophenol
Concen: 113.533 ng
RT: 10.039 min Scan# 1334
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:139 Resp: 148325

Ion	Ratio	Lower	Upper
139	100		
109	69.3	45.1	85.1
65	95.9	69.7	109.7



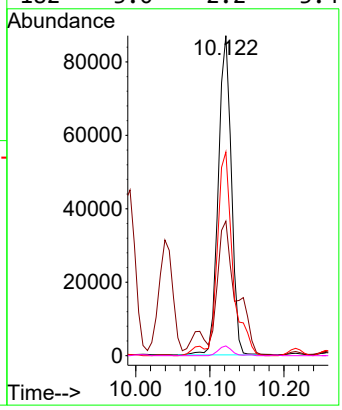


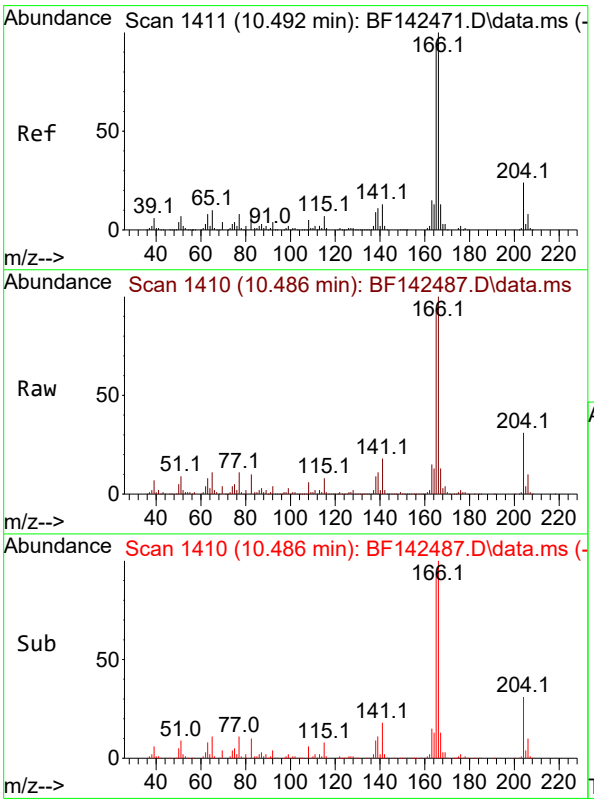
#57
2,4-Dinitrotoluene
Concen: 50.288 ng
RT: 10.122 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:165 Resp: 106463

Ion	Ratio	Lower	Upper
165	100		
63	42.1	33.6	50.4
89	63.7	50.2	75.4
182	3.0	2.2	3.4

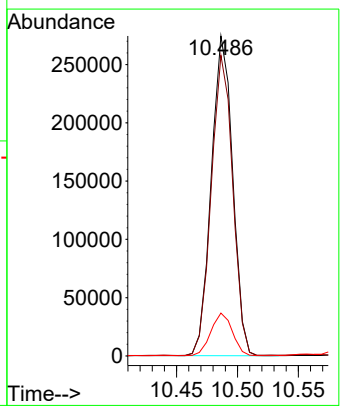


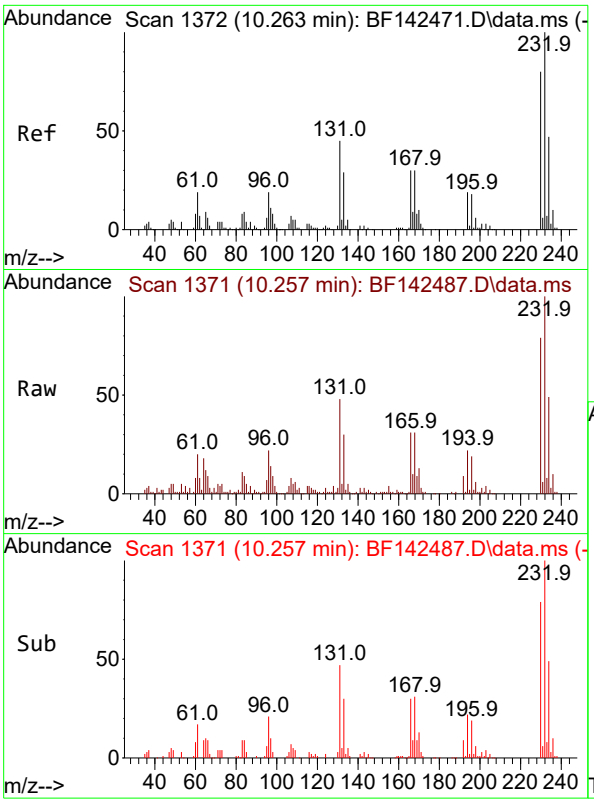


#58
Fluorene
Concen: 44.754 ng
RT: 10.486 min Scan# 1410
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:166 Resp: 334722

Ion	Ratio	Lower	Upper
166	100		
165	93.9	75.8	113.8
167	13.4	10.6	16.0



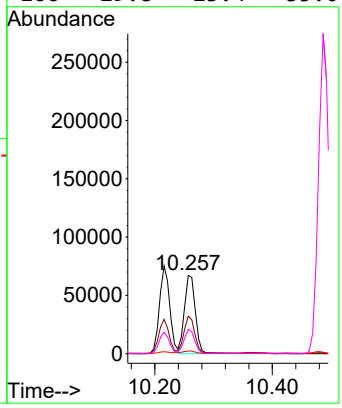


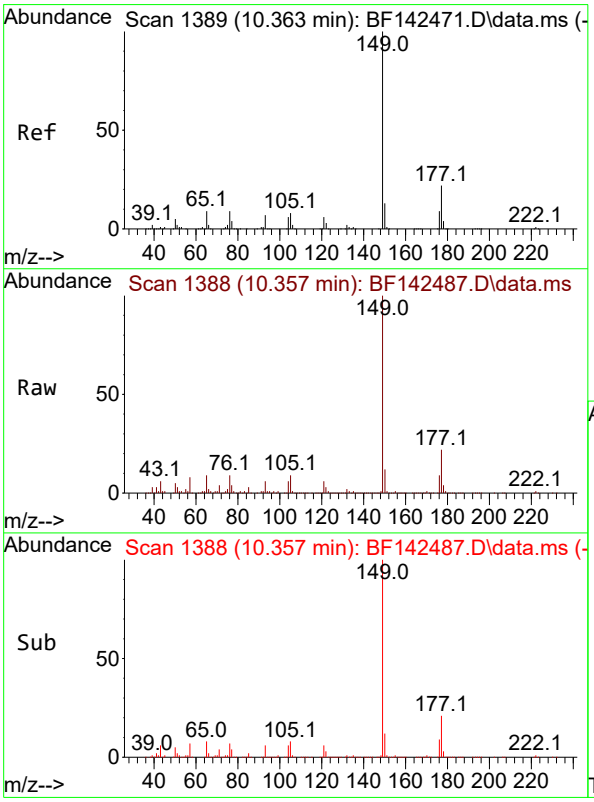
#59
2,3,4,6-Tetrachlorophenol
Concen: 45.129 ng
RT: 10.257 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:232 Resp: 87547

Ion	Ratio	Lower	Upper
232	100		
131	44.4	35.2	52.8
130	4.2	1.7	2.5#
166	29.8	23.4	35.0

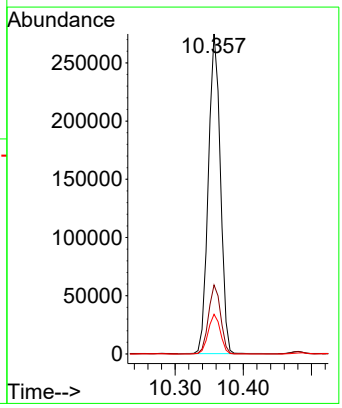


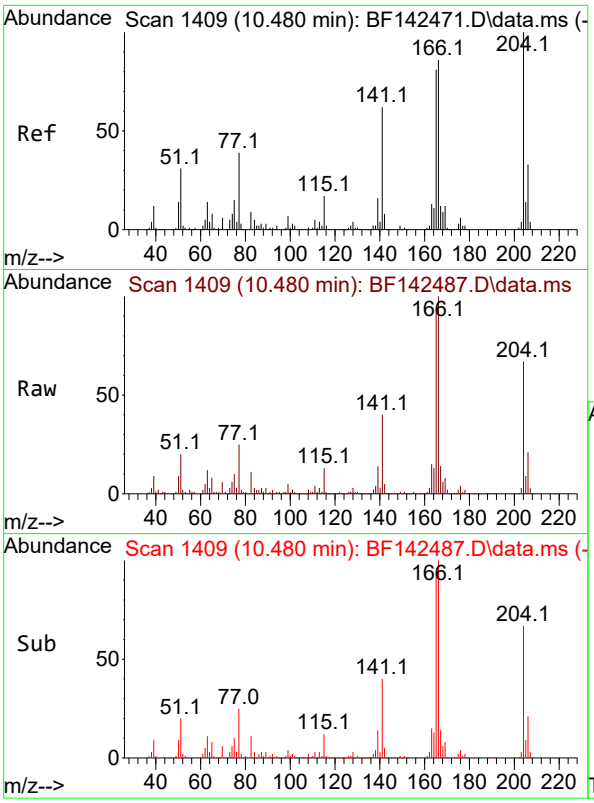


#60
Diethylphthalate
Concen: 45.904 ng
RT: 10.357 min Scan# 1388
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:149 Resp: 336727

Ion	Ratio	Lower	Upper
149	100		
177	21.6	17.6	26.4
150	12.4	10.1	15.1



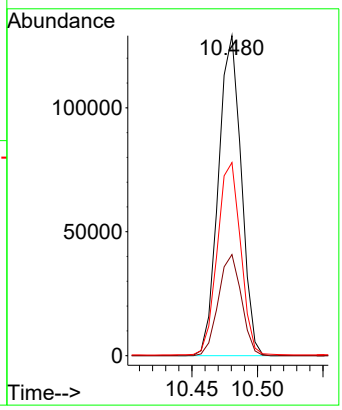


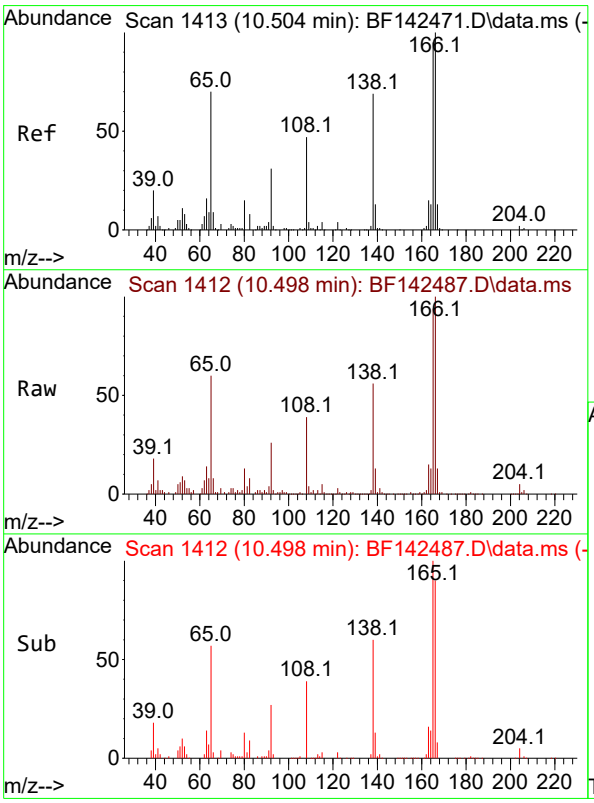
#61
4-Chlorophenyl-phenylether
Concen: 42.465 ng
RT: 10.480 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:204 Resp: 156021

Ion	Ratio	Lower	Upper
204	100		
206	31.6	26.3	39.5
141	60.3	49.5	74.3

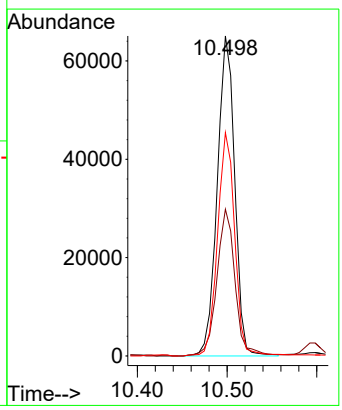


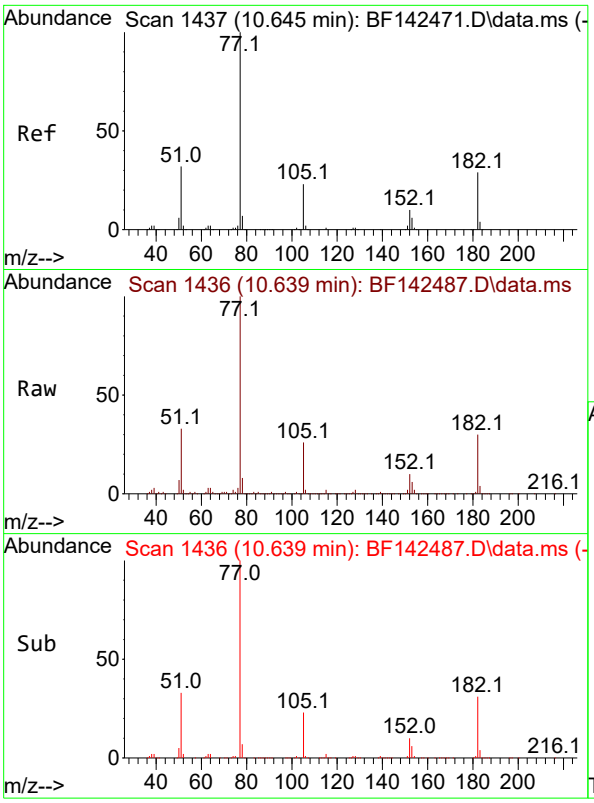


#62
4-Nitroaniline
Concen: 54.834 ng
RT: 10.498 min Scan# 1412
Delta R.T. -0.018 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:138 Resp: 88055

Ion	Ratio	Lower	Upper
138	100		
92	45.9	26.0	66.0
108	69.8	48.4	88.4



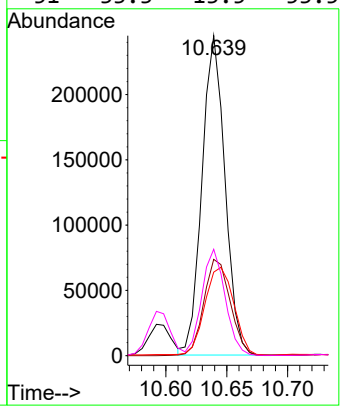


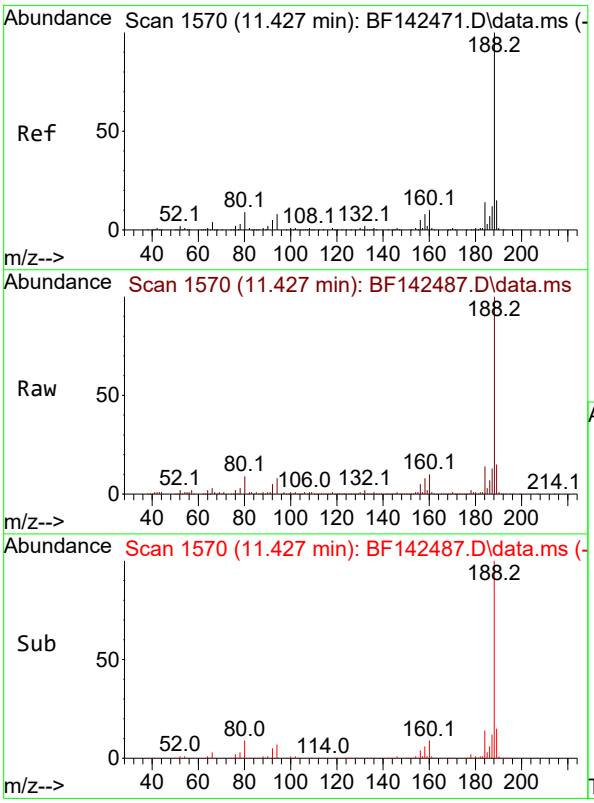
#63
Azobenzene
Concen: 48.728 ng
RT: 10.639 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion: 77 Resp: 321047

Ion	Ratio	Lower	Upper
77	100		
182	30.1	9.0	49.0
105	26.1	2.4	42.4
51	33.3	13.5	53.5

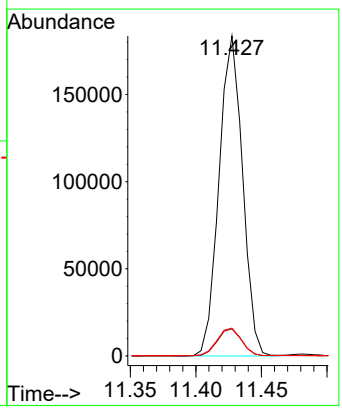


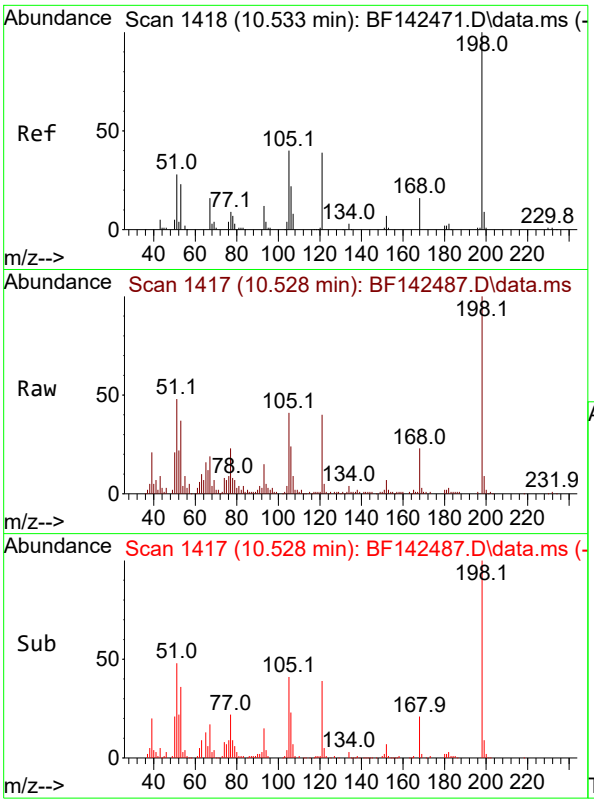


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:188 Resp: 229012

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.6	10.0
80	8.7	7.4	11.0



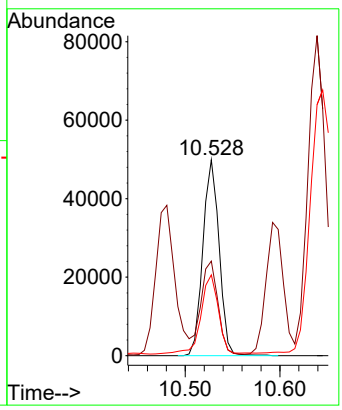


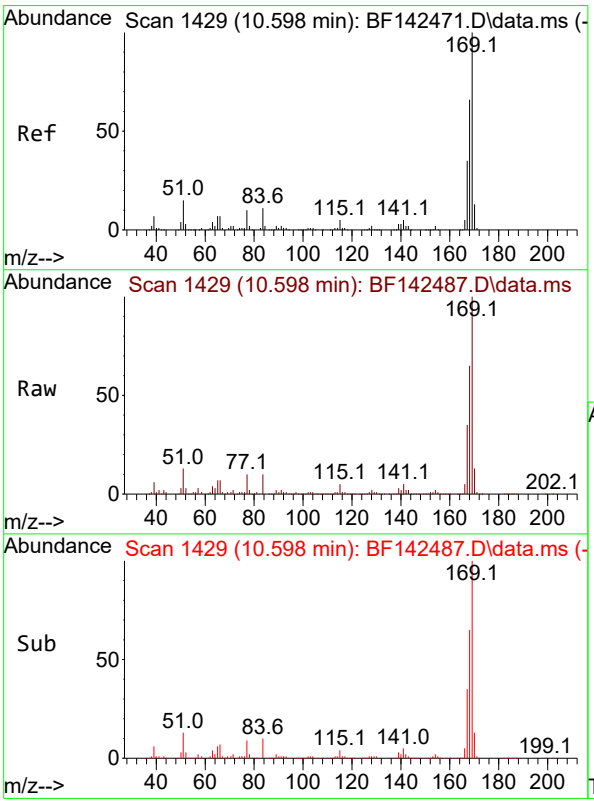
#65
4,6-Dinitro-2-methylphenol
Concen: 46.629 ng
RT: 10.528 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:198 Resp: 59594

Ion	Ratio	Lower	Upper
198	100		
51	48.3	28.3	68.3
105	41.3	21.3	61.3

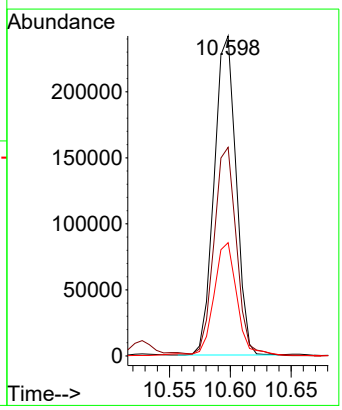


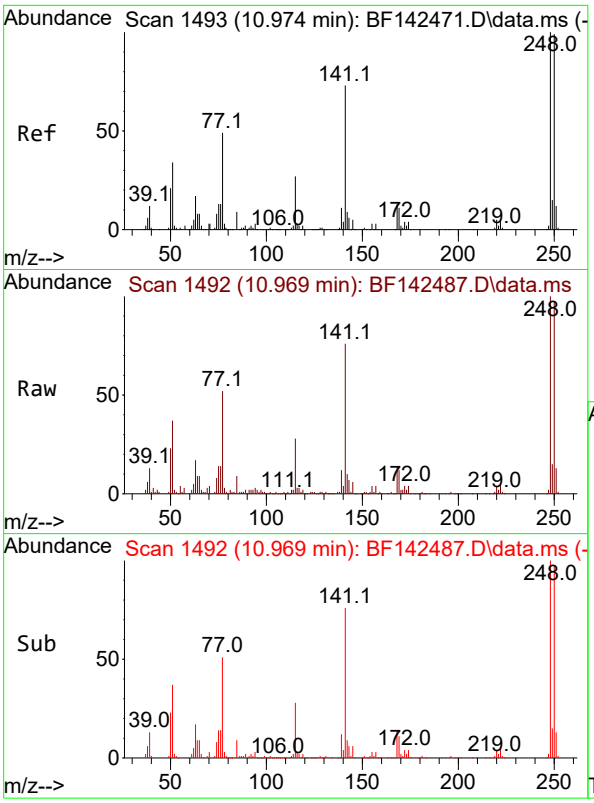


#66
n-Nitrosodiphenylamine
Concen: 38.627 ng
RT: 10.598 min Scan# 1429
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:169 Resp: 302640

Ion	Ratio	Lower	Upper
169	100		
168	65.2	52.7	79.1
167	35.4	28.3	42.5



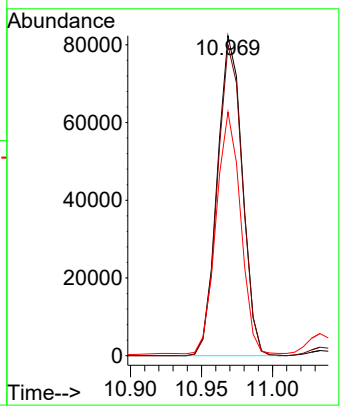


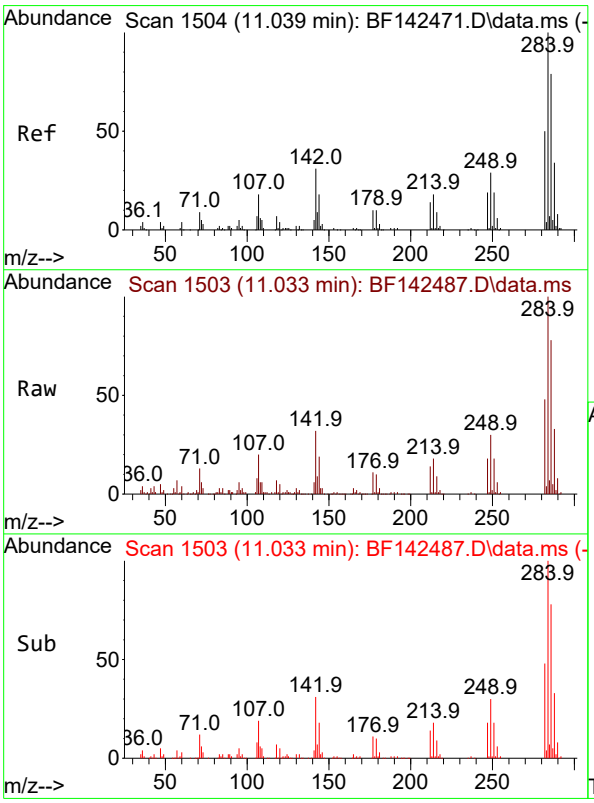
#67
4-Bromophenyl-phenylether
Concen: 37.246 ng
RT: 10.969 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:248 Resp: 100859

Ion	Ratio	Lower	Upper
248	100		
250	97.1	79.0	118.4
141	76.2	58.4	87.6

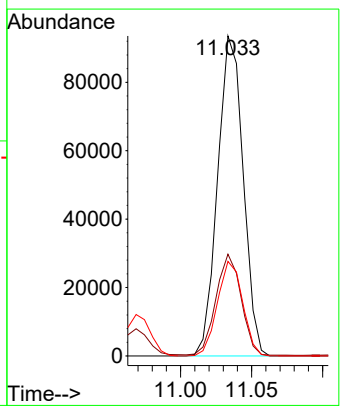


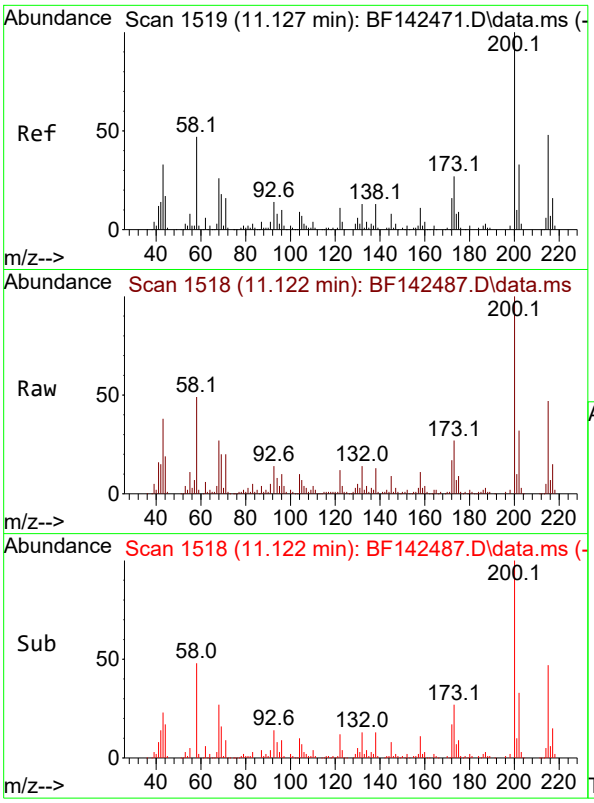


#68
Hexachlorobenzene
Concen: 39.031 ng
RT: 11.033 min Scan# 1503
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:284 Resp: 116897

Ion	Ratio	Lower	Upper
284	100		
142	31.8	24.8	37.2
249	29.5	23.6	35.4



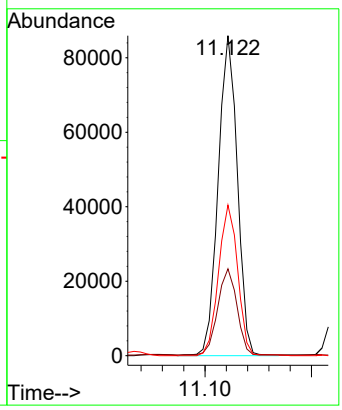


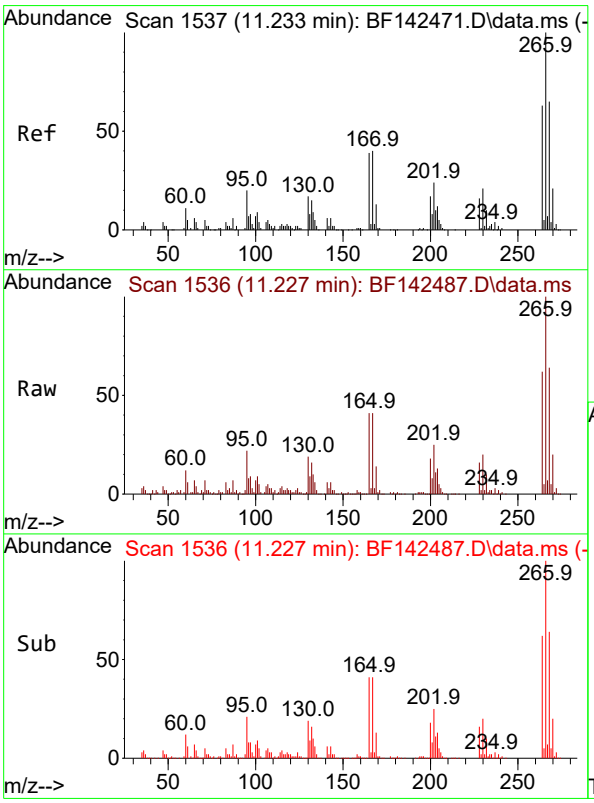
#69
Atrazine
Concen: 51.521 ng
RT: 11.122 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:200 Resp: 107203

Ion	Ratio	Lower	Upper
200	100		
173	27.2	7.4	47.4
215	47.1	28.5	68.5

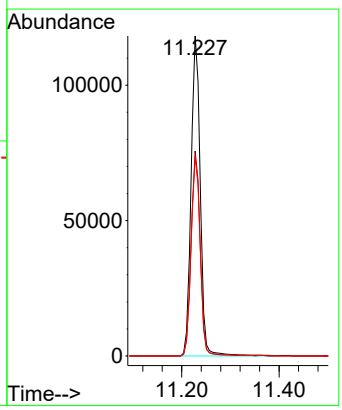


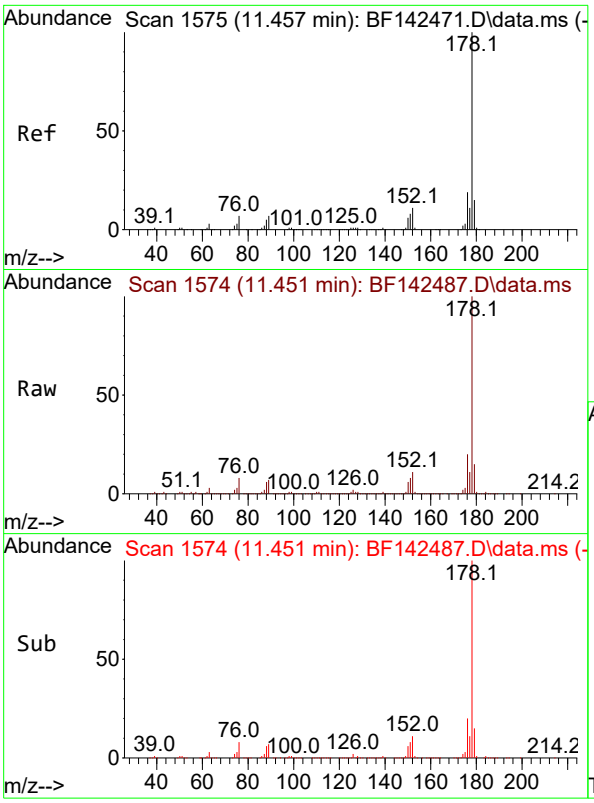


#70
Pentachlorophenol
Concen: 91.410 ng
RT: 11.227 min Scan# 1536
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:266 Resp: 154568

Ion	Ratio	Lower	Upper
266	100		
268	64.1	51.7	77.5
264	62.3	50.4	75.6



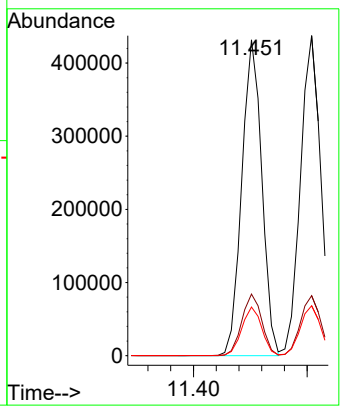


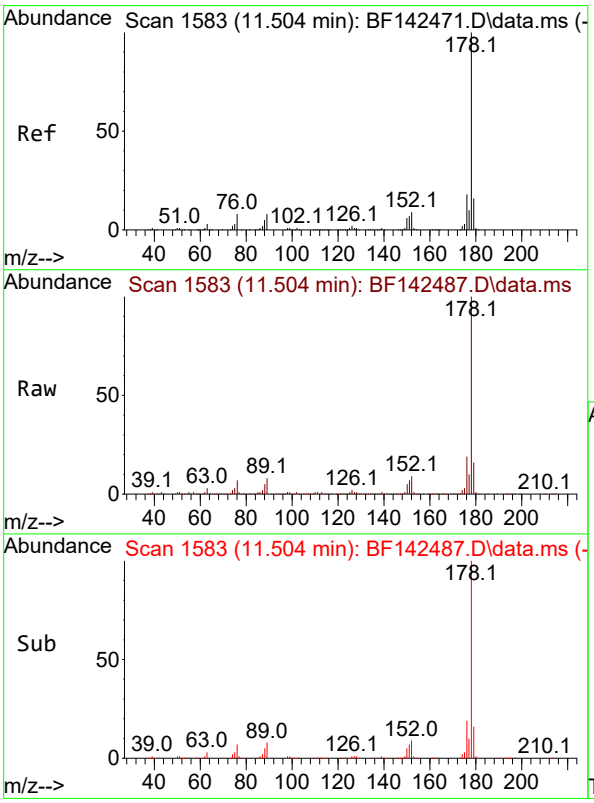
#71
Phenanthrene
Concen: 43.208 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:178 Resp: 528821

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.0
179	15.4	12.3	18.5

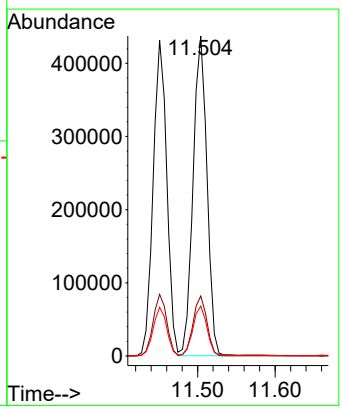


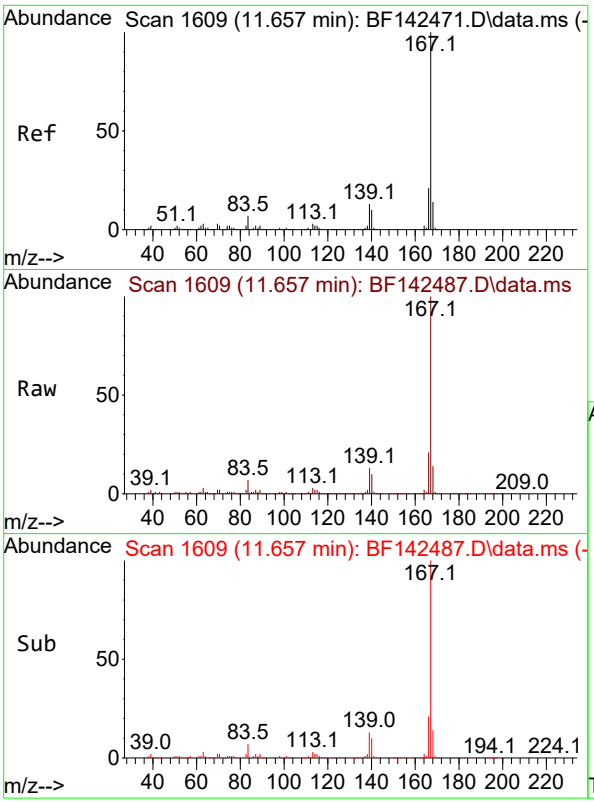


#72
Anthracene
Concen: 43.560 ng
RT: 11.504 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:178 Resp: 544100

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.6	21.8
179	15.6	12.4	18.6



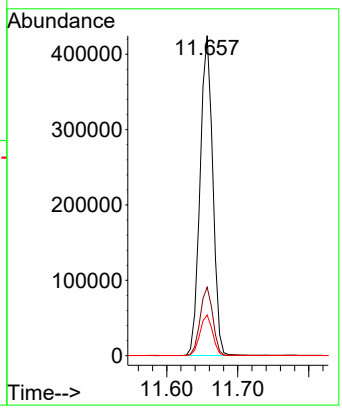


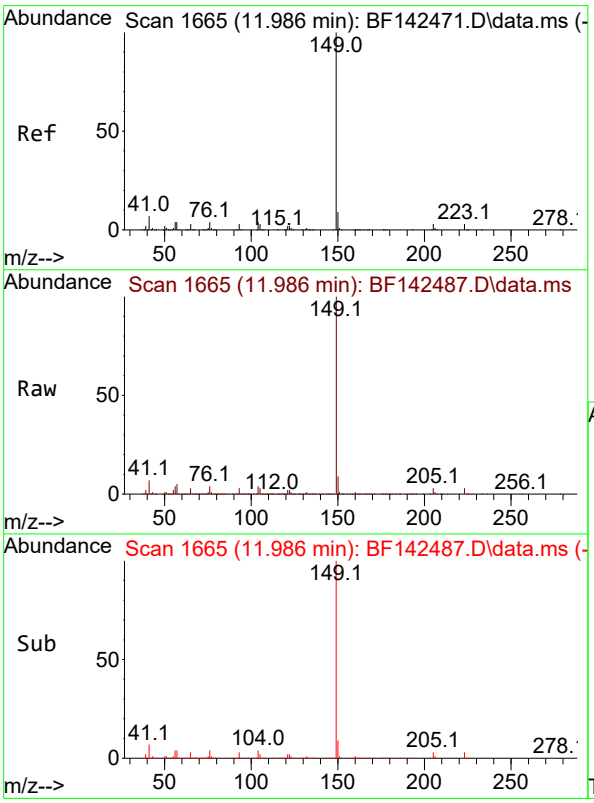
#73
Carbazole
Concen: 49.633 ng
RT: 11.657 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:167 Resp: 529990

Ion	Ratio	Lower	Upper
167	100		
166	21.4	16.9	25.3
139	12.7	10.2	15.4

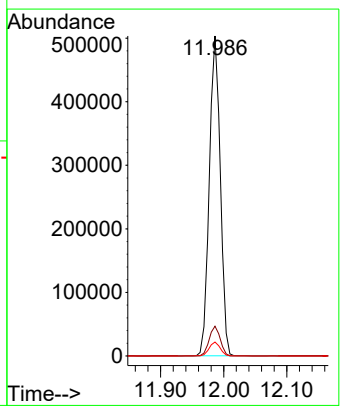


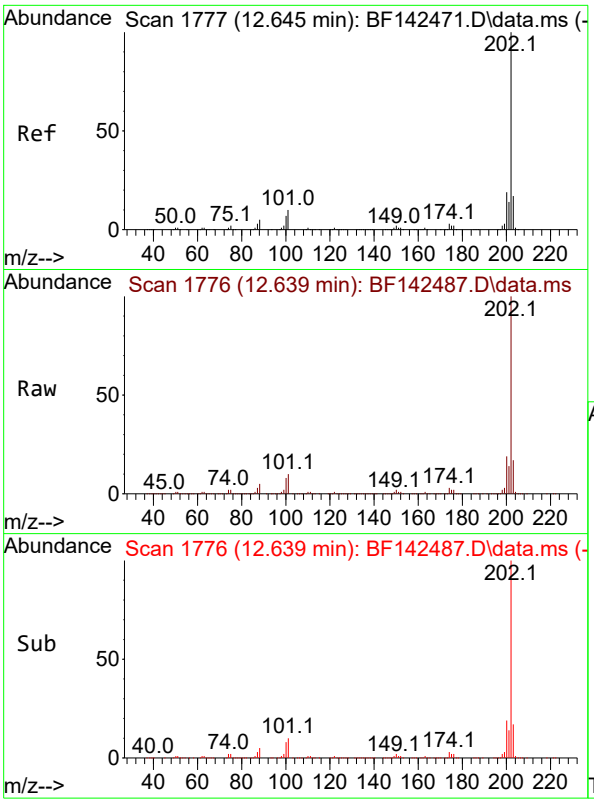


#74
Di-n-butylphthalate
Concen: 52.055 ng
RT: 11.986 min Scan# 1665
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:149 Resp: 608435

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.3	10.9
104	4.4	3.6	5.4



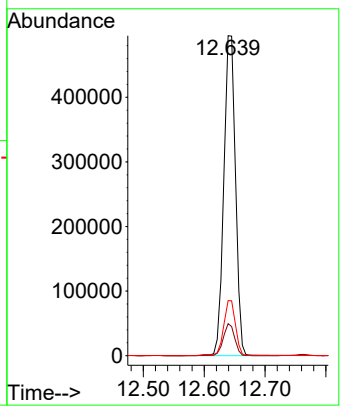


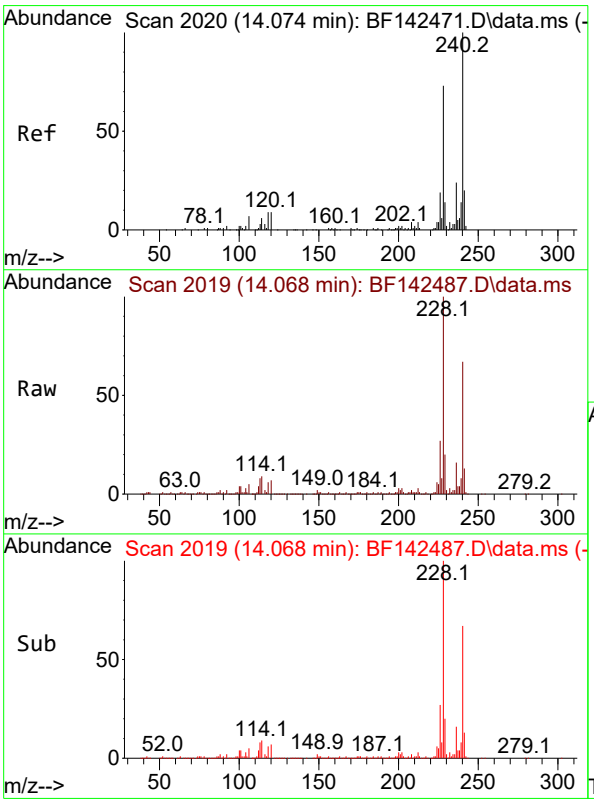
#75
Fluoranthene
Concen: 57.764 ng
RT: 12.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:202 Resp: 660582

Ion	Ratio	Lower	Upper
202	100		
101	10.0	0.0	29.6
203	17.2	0.0	37.2

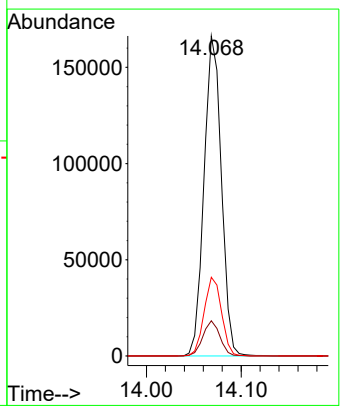


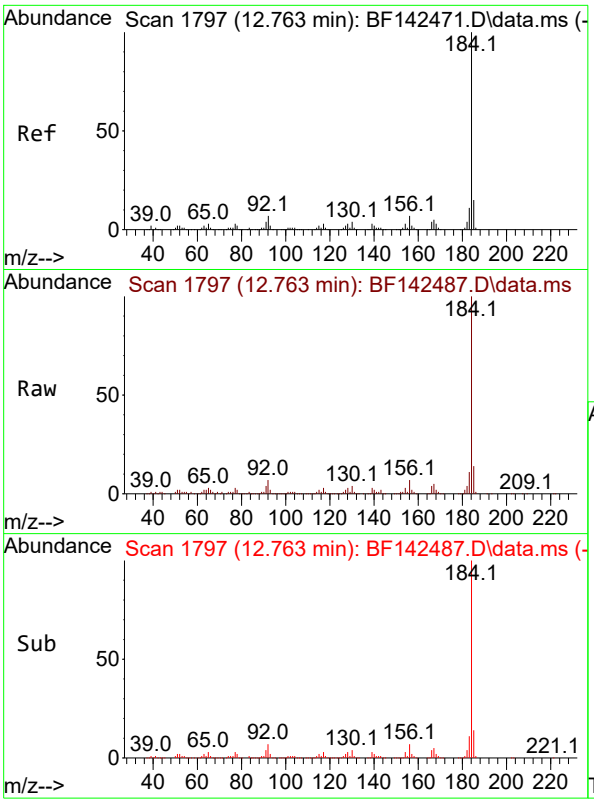


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:240 Resp: 210926

Ion	Ratio	Lower	Upper
240	100		
120	11.0	7.5	11.3
236	24.6	19.6	29.4



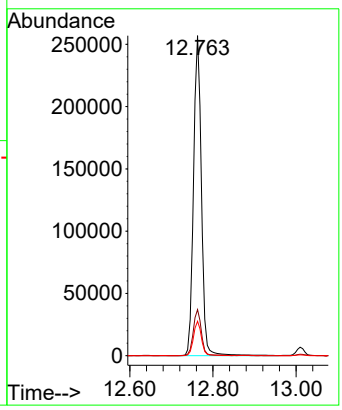


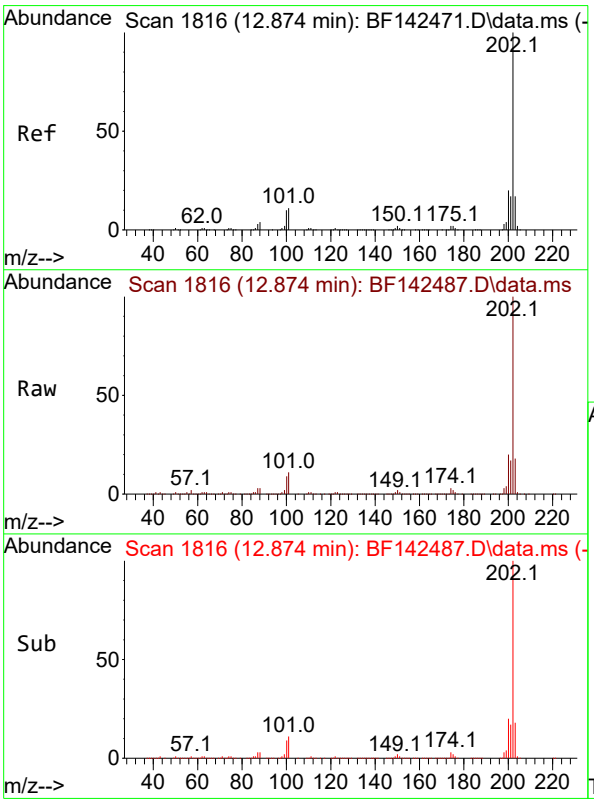
#77
Benzidine
Concen: 43.116 ng
RT: 12.763 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:184 Resp: 338429

Ion	Ratio	Lower	Upper
184	100		
185	14.4	11.6	17.4
183	10.8	9.0	13.4

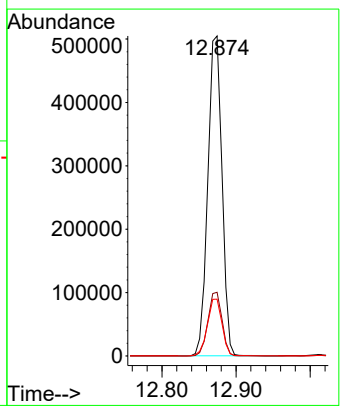


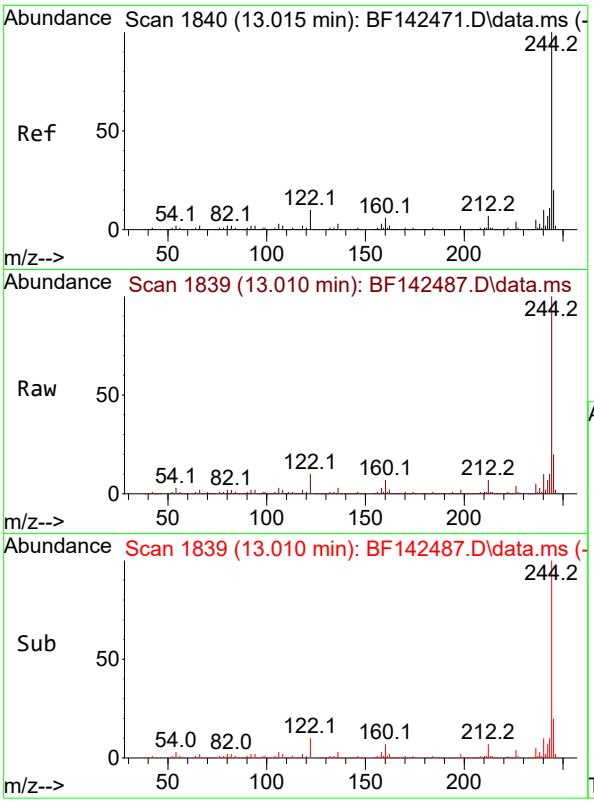


#78
Pyrene
Concen: 34.043 ng
RT: 12.874 min Scan# 1816
Delta R.T. 0.000 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:202 Resp: 669848

Ion	Ratio	Lower	Upper
202	100		
200	19.9	16.1	24.1
203	17.7	13.9	20.9



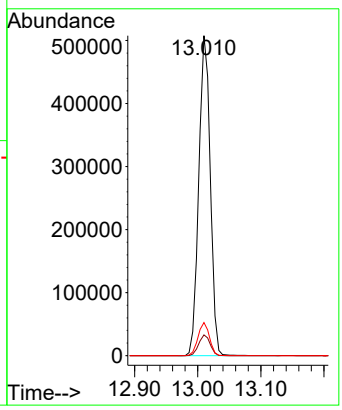


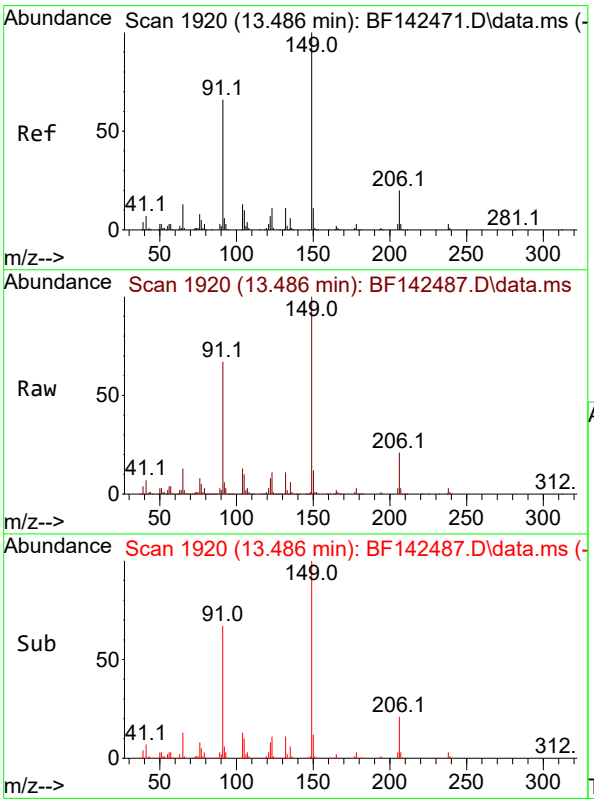
#79
Terphenyl-d14
Concen: 41.482 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:244 Resp: 640281

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.3	7.9
122	10.4	8.2	12.2

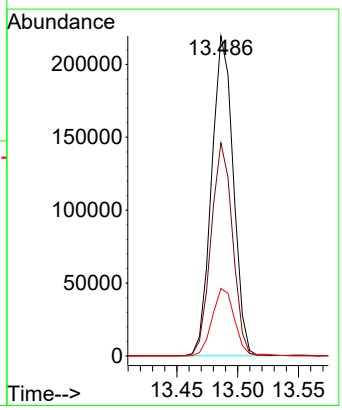


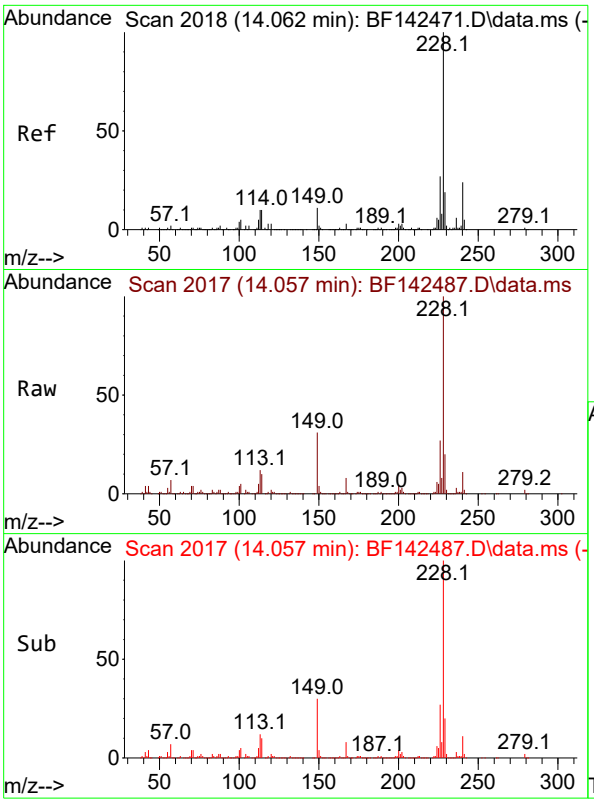


#80
Butylbenzylphthalate
Concen: 49.991 ng
RT: 13.486 min Scan# 1920
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:149 Resp: 271799

Ion	Ratio	Lower	Upper
149	100		
91	66.6	52.9	79.3
206	21.1	16.2	24.2



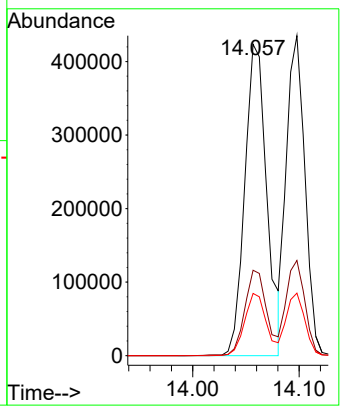


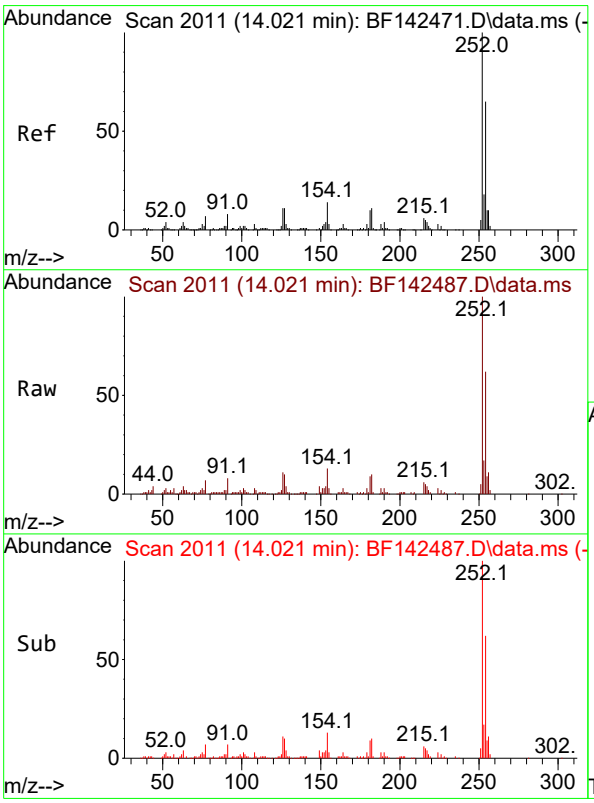
#81
Benzo(a)anthracene
Concen: 43.383 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:228 Resp: 611032

Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.2	31.8
229	20.0	15.5	23.3

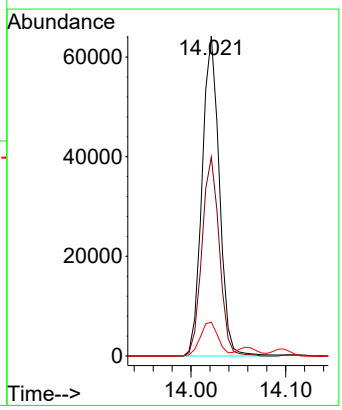


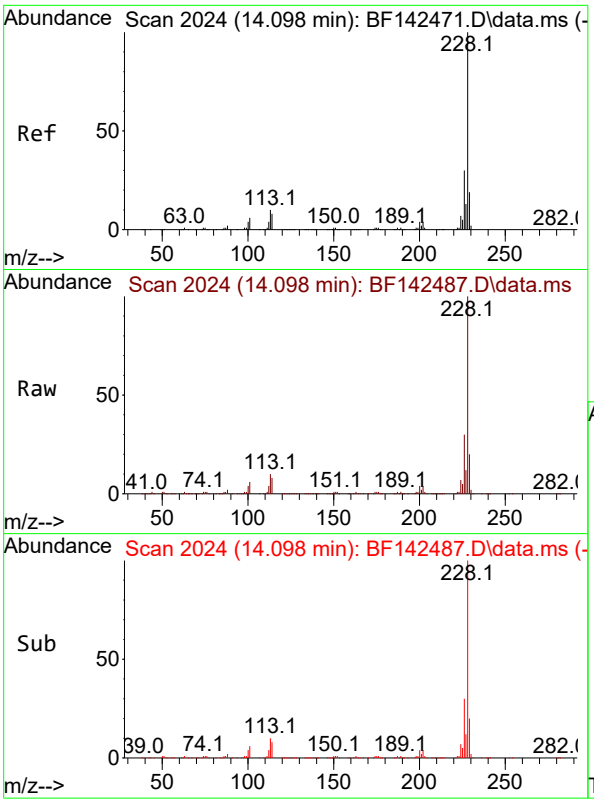


#82
3,3'-Dichlorobenzidine
Concen: 19.027 ng
RT: 14.021 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:252 Resp: 81284

Ion	Ratio	Lower	Upper
252	100		
254	62.1	52.0	78.0
126	10.6	8.9	13.3



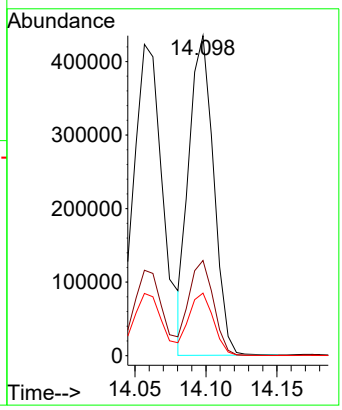


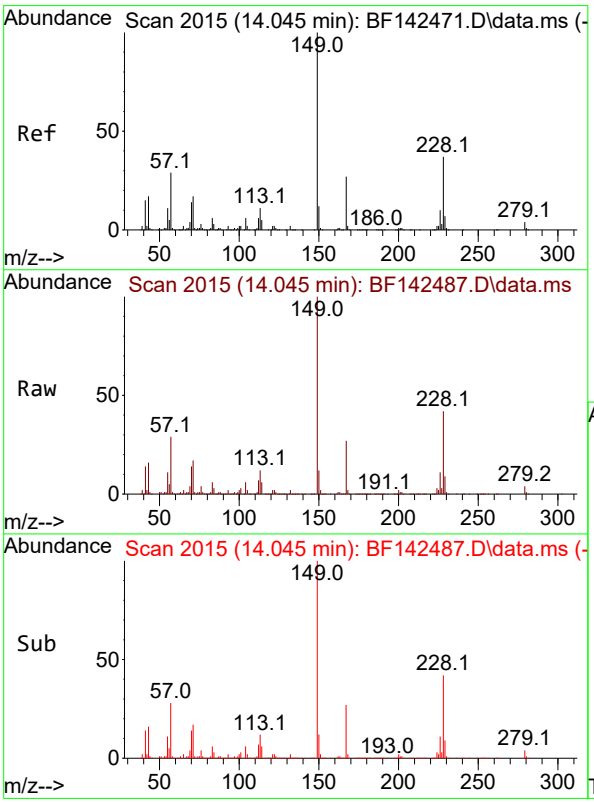
#83
Chrysene
Concen: 41.421 ng
RT: 14.098 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:228 Resp: 524218

Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.8	35.6
229	19.6	15.4	23.2

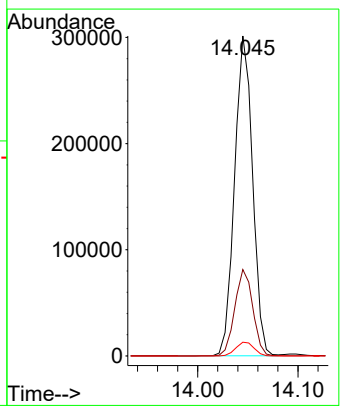


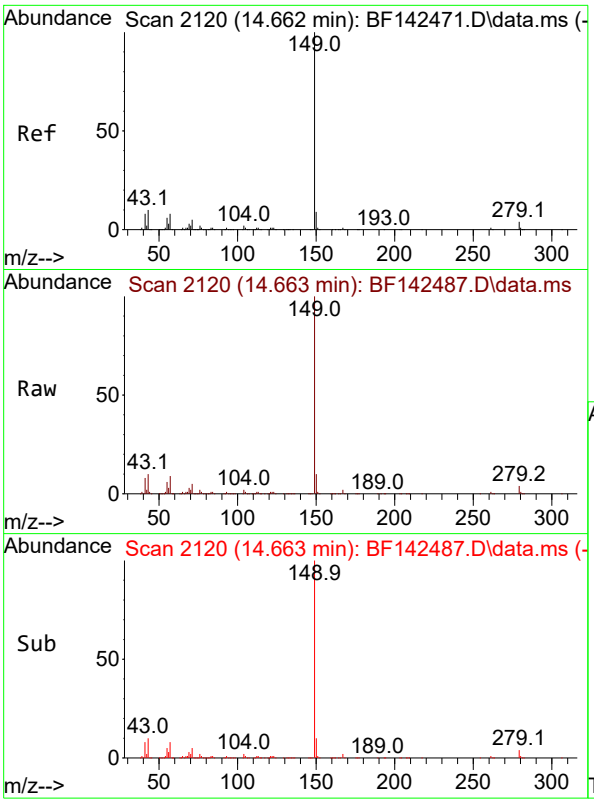


#84
Bis(2-ethylhexyl)phthalate
Concen: 54.051 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:149 Resp: 376196

Ion	Ratio	Lower	Upper
149	100		
167	27.0	21.5	32.3
279	4.3	3.2	4.8



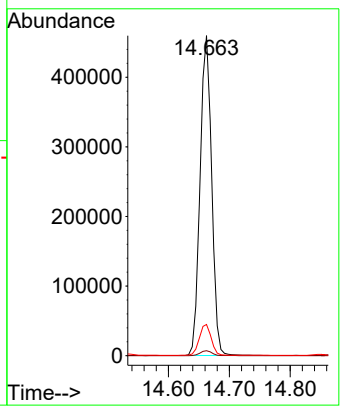


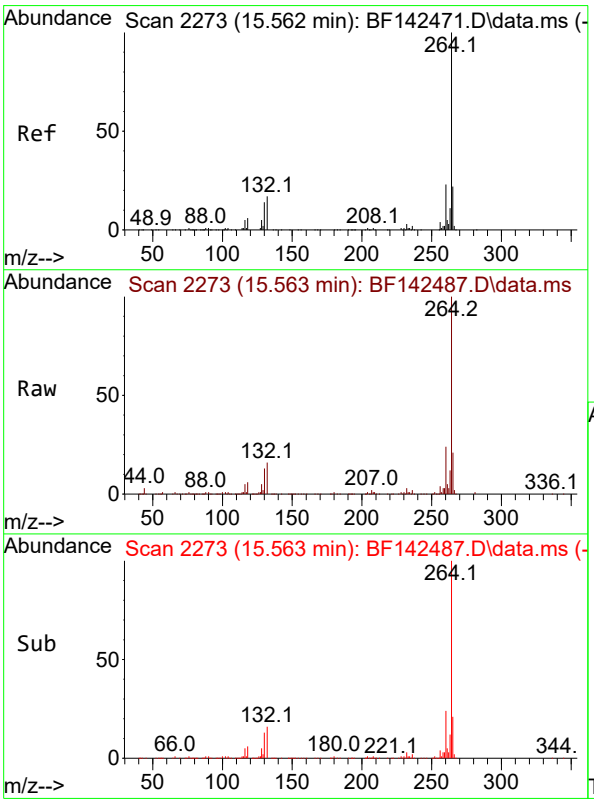
#85
Di-n-octyl phthalate
Concen: 44.459 ng
RT: 14.663 min Scan# 21
Delta R.T. -0.005 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:149 Resp: 605040

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	9.9	7.9	11.9

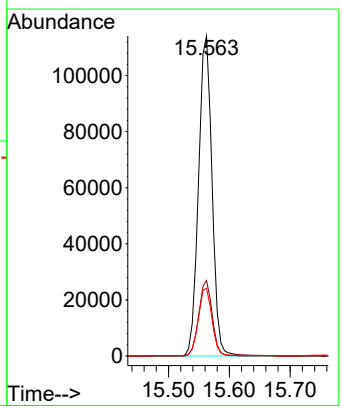


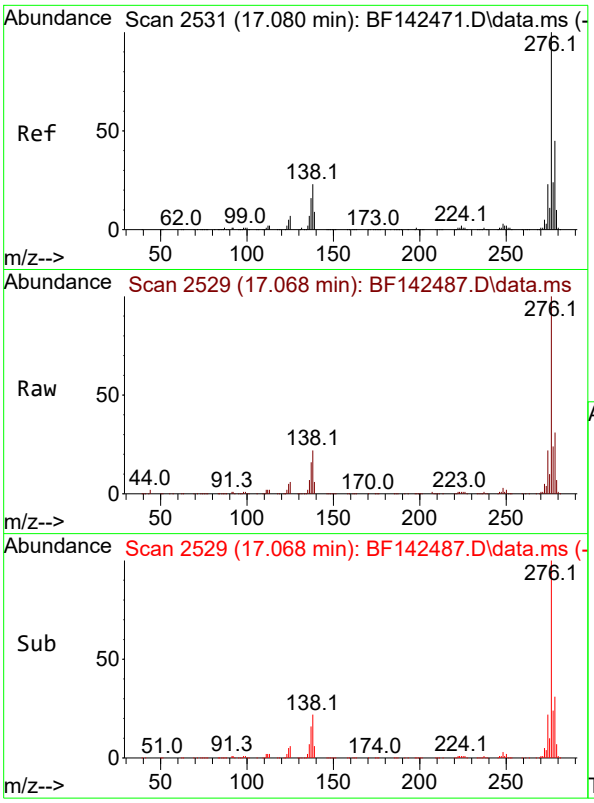


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:264 Resp: 176162

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.6	28.0
265	21.2	17.7	26.5



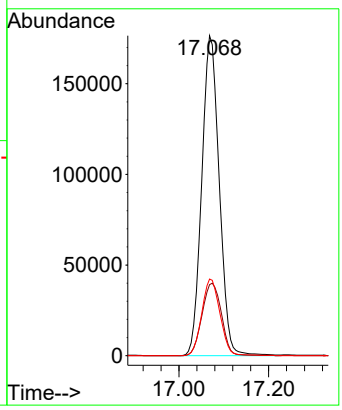


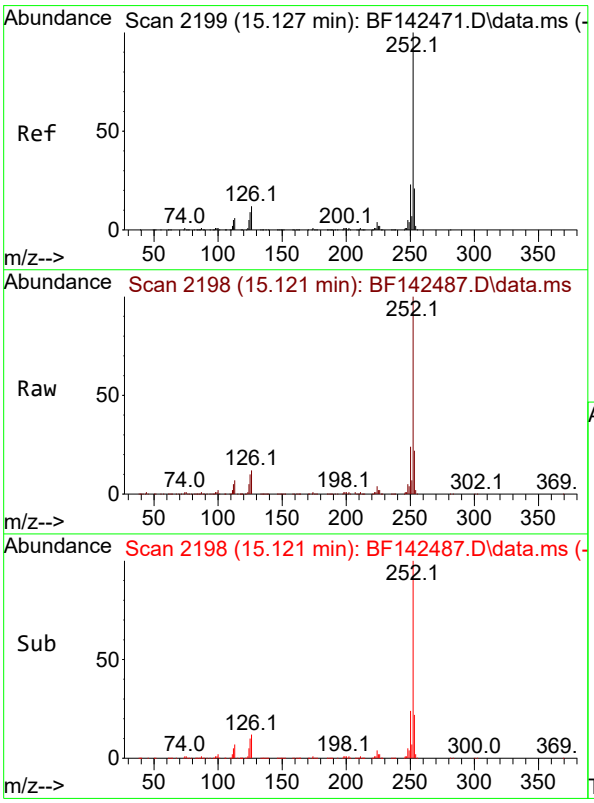
#87
Indeno(1,2,3-cd)pyrene
Concen: 36.138 ng
RT: 17.068 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:276 Resp: 477933

Ion	Ratio	Lower	Upper
276	100		
138	25.2	19.9	29.9
277	24.9	20.2	30.2

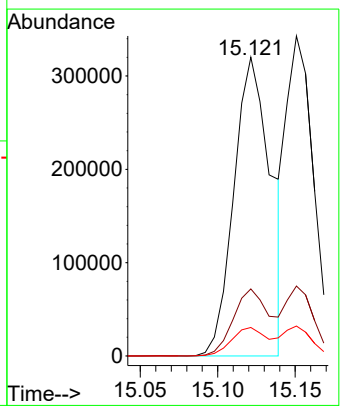


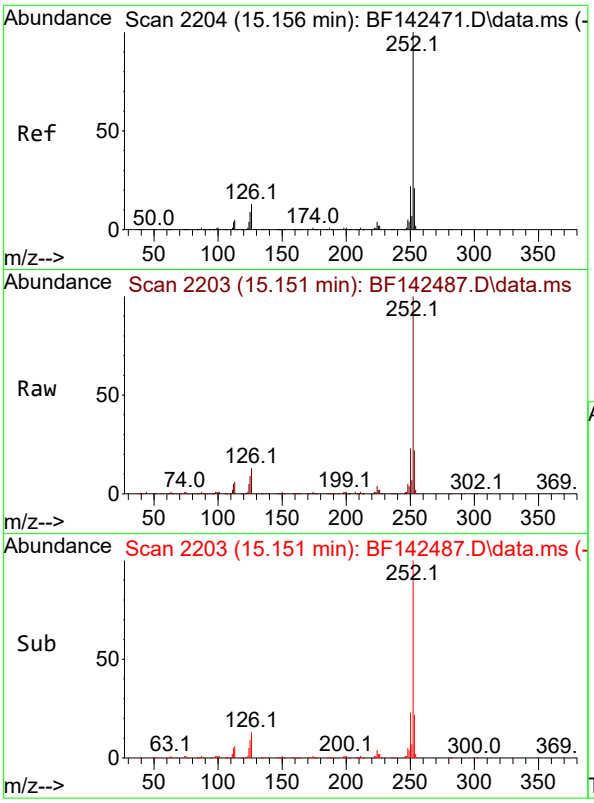


#88
Benzo(b)fluoranthene
Concen: 50.894 ng
RT: 15.121 min Scan# 2198
Delta R.T. -0.006 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:252 Resp: 530624

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.0	25.4
125	9.6	7.4	11.0



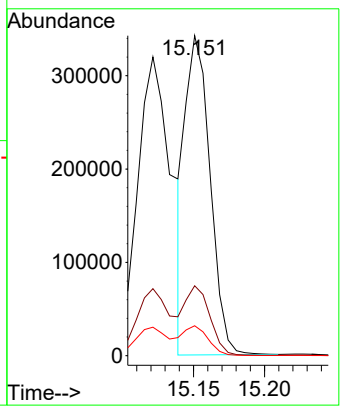


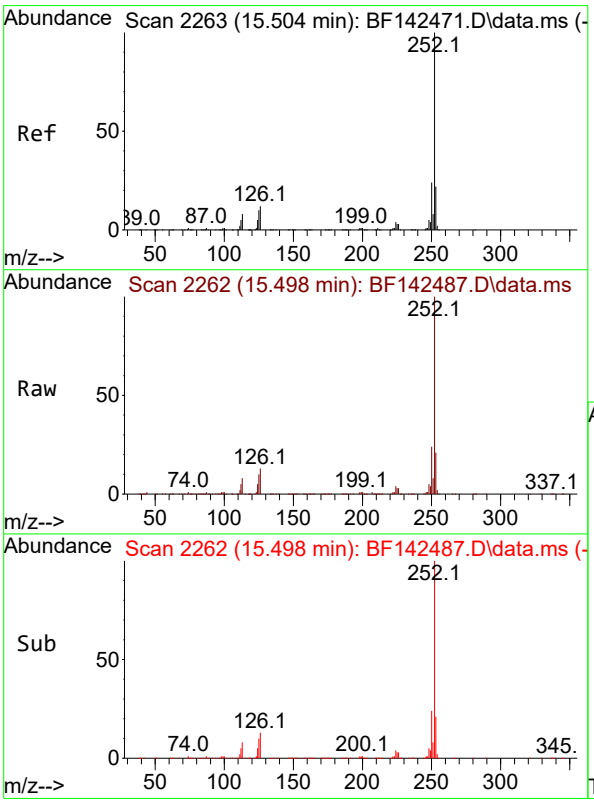
#89
Benzo(k)fluoranthene
Concen: 42.645 ng
RT: 15.151 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:252 Resp: 416436

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.0	25.4
125	9.4	7.3	10.9

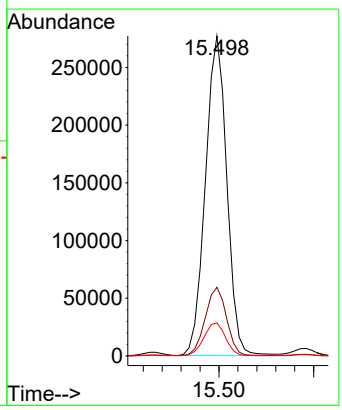


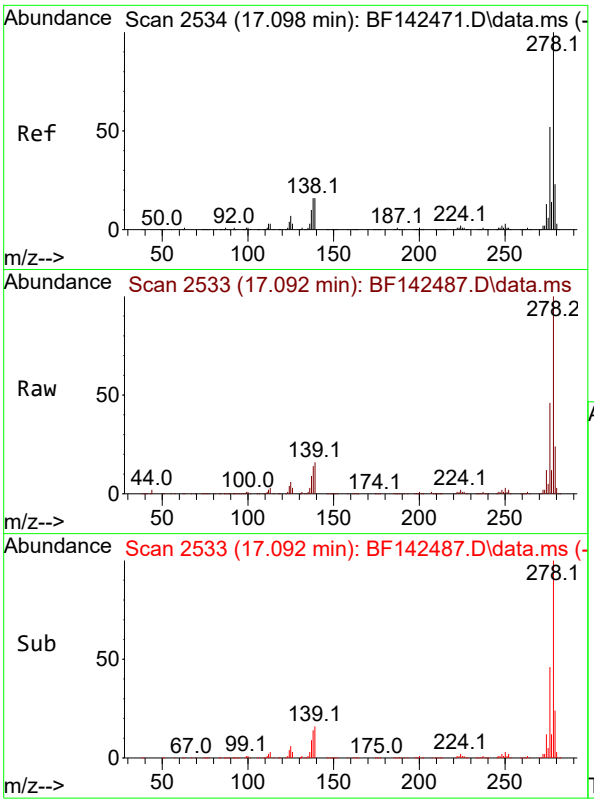


#90
Benzo(a)pyrene
Concen: 44.228 ng
RT: 15.498 min Scan# 2262
Delta R.T. -0.012 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:252 Resp: 434657

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.4	26.0
125	10.3	7.9	11.9



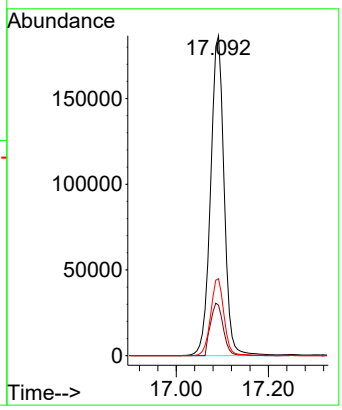


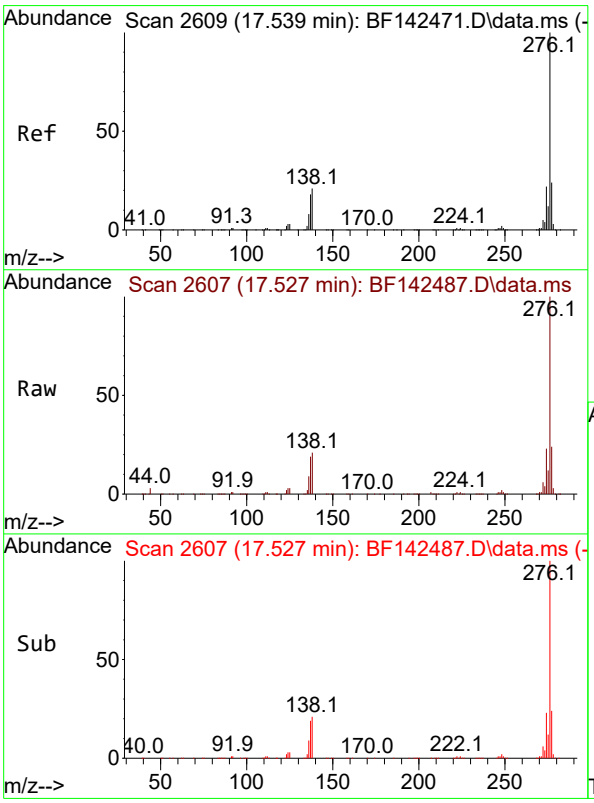
#91
Dibenzo(a,h)anthracene
Concen: 35.642 ng
RT: 17.092 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Tgt Ion:278 Resp: 382303

Ion	Ratio	Lower	Upper
278	100		
139	15.8	12.8	19.2
279	24.0	18.6	28.0

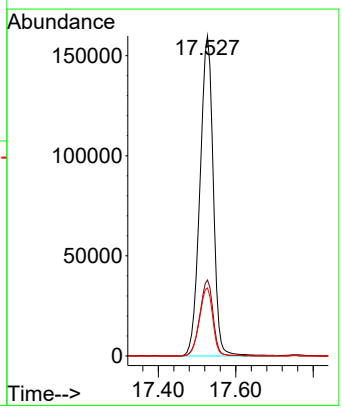




#92
Benzo(g,h,i)perylene
Concen: 35.437 ng
RT: 17.527 min Scan# 2607
Delta R.T. -0.029 min
Lab File: BF142487.D
Acq: 21 May 2025 15:06

Tgt Ion:276 Resp: 380185

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.2	28.8
138	21.2	16.8	25.2



Raw Data: **BF142488.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	SS-11MSD	SDG No.:	Q2074
Lab Sample ID:	Q2075-05MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
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
BF142488.D	1	05/20/25 09:45	05/21/25 15:34	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1400		180	380	ug/Kg
108-95-2	Phenol	1500		25.3	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		27.8	190	ug/Kg
95-57-8	2-Chlorophenol	1500		27.9	190	ug/Kg
95-48-7	2-Methylphenol	1500		34.2	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		42.9	190	ug/Kg
98-86-2	Acetophenone	1600		33.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	1500		47.0	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		54.2	91.4	ug/Kg
67-72-1	Hexachloroethane	1500		20.1	190	ug/Kg
98-95-3	Nitrobenzene	1600		20.9	190	ug/Kg
78-59-1	Isophorone	1500		37.5	190	ug/Kg
88-75-5	2-Nitrophenol	1600		66.5	190	ug/Kg
105-67-9	2,4-Dimethylphenol	1500		74.1	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		35.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		32.3	190	ug/Kg
91-20-3	Naphthalene	1600		25.9	190	ug/Kg
106-47-8	4-Chloroaniline	390		40.5	190	ug/Kg
87-68-3	Hexachlorobutadiene	1500		28.9	190	ug/Kg
105-60-2	Caprolactam	1800		59.6	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		32.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	1500		29.3	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3100	E	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		22.6	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		33.3	190	ug/Kg
92-52-4	1,1-Biphenyl	1600		24.9	190	ug/Kg
91-58-7	2-Chloronaphthalene	1600		25.7	190	ug/Kg
88-74-4	2-Nitroaniline	1700		55.0	190	ug/Kg
131-11-3	Dimethylphthalate	1600		31.0	190	ug/Kg

Raw Data: **BF142488.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	SS-11MSD	SDG No.:	Q2074
Lab Sample ID:	Q2075-05MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
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
BF142488.D	1	05/20/25 09:45	05/21/25 15:34	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		33.0	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		38.4	190	ug/Kg
99-09-2	3-Nitroaniline	1000		52.6	190	ug/Kg
83-32-9	Acenaphthene	1800		24.3	190	ug/Kg
51-28-5	2,4-Dinitrophenol	3700	E	260	380	ug/Kg
100-02-7	4-Nitrophenol	4100	E	120	380	ug/Kg
132-64-9	Dibenzofuran	1600		25.9	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		57.3	190	ug/Kg
84-66-2	Diethylphthalate	1600		32.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		30.5	190	ug/Kg
86-73-7	Fluorene	1600		28.9	190	ug/Kg
100-01-6	4-Nitroaniline	1900		73.4	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		37.6	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		31.8	190	ug/Kg
118-74-1	Hexachlorobenzene	1500		28.9	190	ug/Kg
1912-24-9	Atrazine	1900		38.9	190	ug/Kg
87-86-5	Pentachlorophenol	3400	E	58.6	380	ug/Kg
85-01-8	Phenanthrene	1700		23.9	190	ug/Kg
120-12-7	Anthracene	1700		38.1	190	ug/Kg
86-74-8	Carbazole	1900		35.7	190	ug/Kg
84-74-2	Di-n-butylphthalate	1900		54.8	190	ug/Kg
206-44-0	Fluoranthene	2300		34.3	190	ug/Kg
129-00-0	Pyrene	1300		41.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	1900		81.6	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	770		41.9	380	ug/Kg
56-55-3	Benzo(a)anthracene	1600		26.3	190	ug/Kg
218-01-9	Chrysene	1600		22.7	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2000		67.7	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1600		99.2	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		21.7	190	ug/Kg

Raw Data: **BF142488.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	SS-11MSD	SDG No.:	Q2074
Lab Sample ID:	Q2075-05MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
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
BF142488.D	1	05/20/25 09:45	05/21/25 15:34	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		25.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	1700		33.7	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1400		33.3	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1300		31.3	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300		29.4	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		29.3	190	ug/Kg
123-91-1	1,4-Dioxane	1400		51.7	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1600		31.3	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	95.8		18 - 112	64%	SPK: 150
13127-88-3	Phenol-d6	95.6		15 - 107	64%	SPK: 150
4165-60-0	Nitrobenzene-d5	59.6		18 - 107	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	54.4		20 - 109	54%	SPK: 100
118-79-6	2,4,6-Tribromophenol	106		10 - 116	71%	SPK: 150
1718-51-0	Terphenyl-d14	40.2		10 - 105	40%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	53500	6.898			
1146-65-2	Naphthalene-d8	192000	8.181			
15067-26-2	Acenaphthene-d10	95700	9.939			
1517-22-2	Phenanthrene-d10	179000	11.427			
1719-03-5	Chrysene-d12	174000	14.068			
1520-96-3	Perylene-d12	148000	15.557			

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142488.D
Acq On : 21 May 2025 15:34
Operator : RC/JU
Sample : Q2075-05MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Quant Time: May 21 16:00:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.898	152	53473	20.000	ng		0.00
21) Naphthalene-d8	8.181	136	192497	20.000	ng		0.00
39) Acenaphthene-d10	9.939	164	95696	20.000	ng		0.00
64) Phenanthrene-d10	11.427	188	179294	20.000	ng		0.00
76) Chrysene-d12	14.068	240	174160	20.000	ng		0.00
86) Perylene-d12	15.557	264	147670	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	304079	95.805	ng		-0.01
7) Phenol-d6	6.516	99	365334	95.621	ng		-0.02
23) Nitrobenzene-d5	7.457	82	210235	59.553	ng		-0.02
42) 2,4,6-Tribromophenol	10.728	330	113033	106.424	ng		-0.01
45) 2-Fluorobiphenyl	9.257	172	388254	54.441	ng		-0.01
79) Terphenyl-d14	13.010	244	512173	40.188	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.634	88	46460	36.580	ng		97
3) Pyridine	3.410	79	126162	39.007	ng		99
4) n-Nitrosodimethylamine	3.346	42	67799	40.373	ng		96
6) Aniline	6.557	93	112810	21.959	ng		99
8) 2-Chlorophenol	6.681	128	139131	40.245	ng		98
9) Benzaldehyde	6.445	77	86641	37.703	ng		99
10) Phenol	6.528	94	171228	39.829	ng		100
11) bis(2-Chloroethyl)ether	6.628	93	121333	39.208	ng		100
12) 1,3-Dichlorobenzene	6.840	146	155190	40.230	ng		98
13) 1,4-Dichlorobenzene	6.916	146	155412	39.995	ng		98
14) 1,2-Dichlorobenzene	7.069	146	149202	40.127	ng		98
15) Benzyl Alcohol	7.034	79	108038	38.264	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.169	45	198589	38.213	ng		100
17) 2-Methylphenol	7.145	107	105761	39.184	ng		97
18) Hexachloroethane	7.410	117	53195	39.204	ng		96
19) n-Nitroso-di-n-propyla...	7.304	70	86737	36.631	ng		98
20) 3+4-Methylphenols	7.292	107	134110	38.800	ng	#	87
22) Acetophenone	7.304	105	181145	42.510	ng		99
24) Nitrobenzene	7.475	77	132830	41.719	ng		99
25) Isophorone	7.716	82	230066	38.979	ng		98
26) 2-Nitrophenol	7.792	139	71728	42.161	ng		98
27) 2,4-Dimethylphenol	7.828	122	121560	40.517	ng		99
28) bis(2-Chloroethoxy)met...	7.928	93	142931	38.766	ng		99
29) 2,4-Dichlorophenol	8.034	162	110236	40.402	ng		99
30) 1,2,4-Trichlorobenzene	8.122	180	123234	41.617	ng		98
31) Naphthalene	8.204	128	394689	41.641	ng		99
32) Benzoic acid	7.916	122	75602m	41.396	ng		
33) 4-Chloroaniline	8.251	127	39518	10.289	ng		98
34) Hexachlorobutadiene	8.322	225	75196	40.670	ng		99
35) Caprolactam	8.598	113	35475	46.294	ng		92
36) 4-Chloro-3-methylphenol	8.728	107	109810	39.271	ng		97
37) 2-Methylnaphthalene	8.892	142	240543	40.339	ng		99
38) 1-Methylnaphthalene	8.992	142	248451	40.280	ng		99
40) 1,2,4,5-Tetrachloroben...	9.063	216	118777	43.238	ng		98
41) Hexachlorocyclopentadiene	9.051	237	151109	81.543	ng		98
43) 2,4,6-Trichlorophenol	9.169	196	77212	41.683	ng		96

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142488.D
Acq On : 21 May 2025 15:34
Operator : RC/JU
Sample : Q2075-05MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Quant Time: May 21 16:00:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

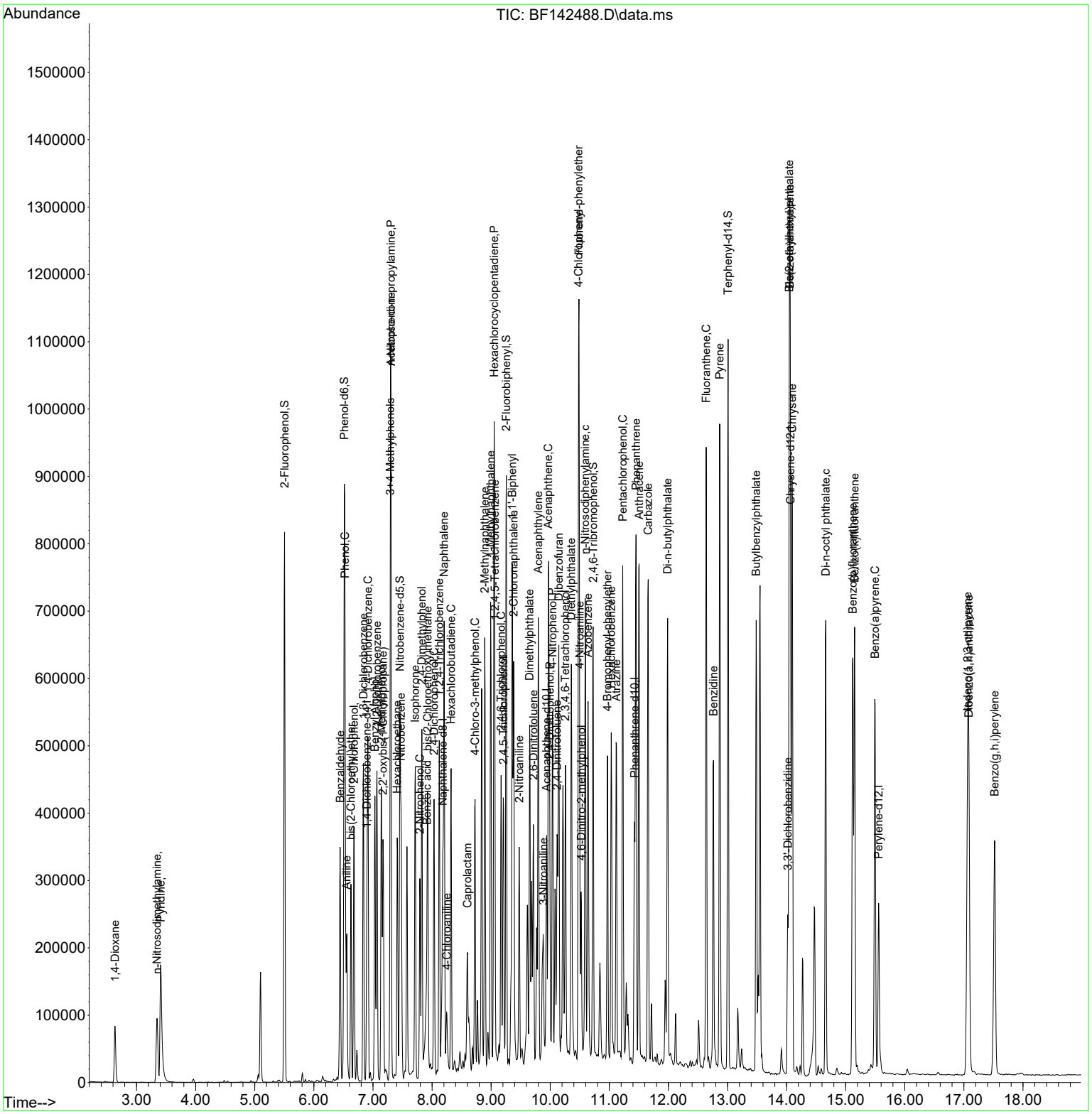
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	80798	41.359	ng		98
46) 1,1'-Biphenyl	9.357	154	318472	42.896	ng		99
47) 2-Chloronaphthalene	9.381	162	232356	42.360	ng		99
48) 2-Nitroaniline	9.475	65	69874	44.071	ng		99
49) Acenaphthylene	9.798	152	396591	42.817	ng		100
50) Dimethylphthalate	9.651	163	265370	42.027	ng		99
51) 2,6-Dinitrotoluene	9.716	165	58315	42.790	ng		100
52) Acenaphthene	9.969	154	265263	46.901	ng		99
53) 3-Nitroaniline	9.886	138	39078	26.253	ng		96
54) 2,4-Dinitrophenol	9.992	184	68143	96.781	ng		96
55) Dibenzofuran	10.145	168	342315	42.059	ng		98
56) 4-Nitrophenol	10.039	139	117563	107.039	ng		100
57) 2,4-Dinitrotoluene	10.116	165	82986	46.626	ng		95
58) Fluorene	10.486	166	270781	43.065	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.257	232	67912	41.641	ng	#	97
60) Diethylphthalate	10.357	149	263021	42.650	ng		100
61) 4-Chlorophenyl-phenyle...	10.480	204	127605	41.312	ng		97
62) 4-Nitroaniline	10.498	138	66970	49.607	ng		99
63) Azobenzene	10.639	77	253765	45.814	ng		96
65) 4,6-Dinitro-2-methylph...	10.528	198	44708	44.681	ng		97
66) n-Nitrosodiphenylamine	10.592	169	239679	39.074	ng		99
67) 4-Bromophenyl-phenylether	10.969	248	77907	36.748	ng		99
68) Hexachlorobenzene	11.033	284	89239	38.058	ng		98
69) Atrazine	11.122	200	80957	49.697	ng		99
70) Pentachlorophenol	11.227	266	118109	89.217	ng		99
71) Phenanthrene	11.451	178	416981	43.518	ng		99
72) Anthracene	11.504	178	425552	43.517	ng		99
73) Carbazole	11.657	167	425725	50.924	ng		99
74) Di-n-butylphthalate	11.986	149	464959	50.811	ng		100
75) Fluoranthene	12.639	202	529880	59.183	ng		99
77) Benzidine	12.763	184	260706	40.226	ng		99
78) Pyrene	12.869	202	555060	34.165	ng		100
80) Butylbenzylphthalate	13.486	149	219971	49.000	ng		98
81) Benzo(a)anthracene	14.057	228	488067	41.968	ng		100
82) 3,3'-Dichlorobenzidine	14.021	252	71192	20.183	ng		99
83) Chrysene	14.092	228	449179	42.984	ng		99
84) Bis(2-ethylhexyl)phtha...	14.045	149	300378	52.268	ng		100
85) Di-n-octyl phthalate	14.663	149	480004	42.717	ng		100
87) Indeno(1,2,3-cd)pyrene	17.062	276	397462	35.852	ng		100
88) Benzo(b)fluoranthene	15.121	252	398076	45.547	ng		98
89) Benzo(k)fluoranthene	15.151	252	375338	45.852	ng		99
90) Benzo(a)pyrene	15.498	252	358666	43.537	ng		99
91) Dibenzo(a,h)anthracene	17.086	278	318429	35.415	ng		100
92) Benzo(g,h,i)perylene	17.521	276	318190	35.381	ng		99

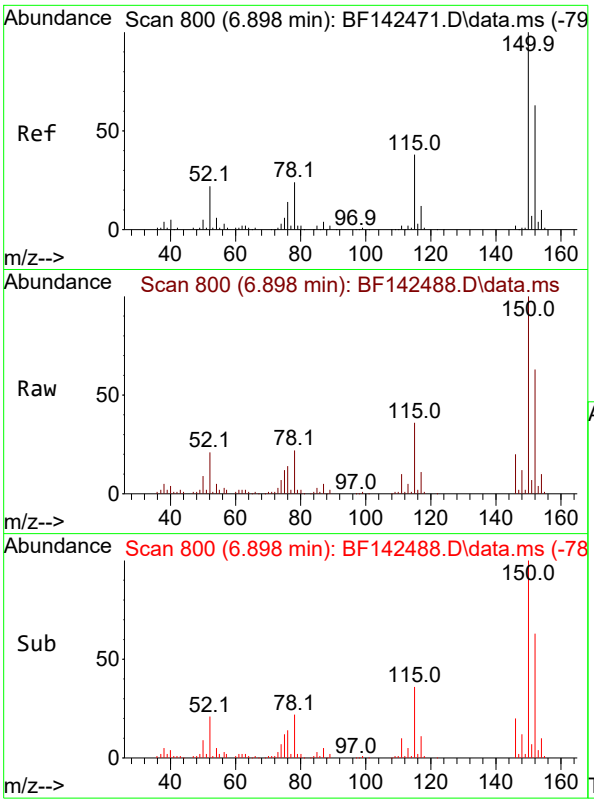
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142488.D
Acq On : 21 May 2025 15:34
Operator : RC/JU
Sample : Q2075-05MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Quant Time: May 21 16:00:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



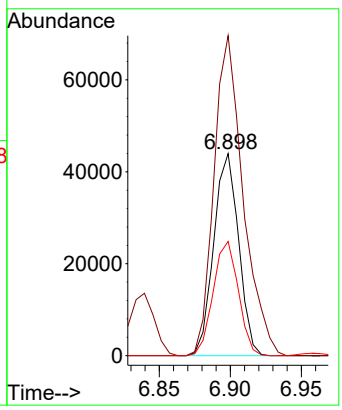


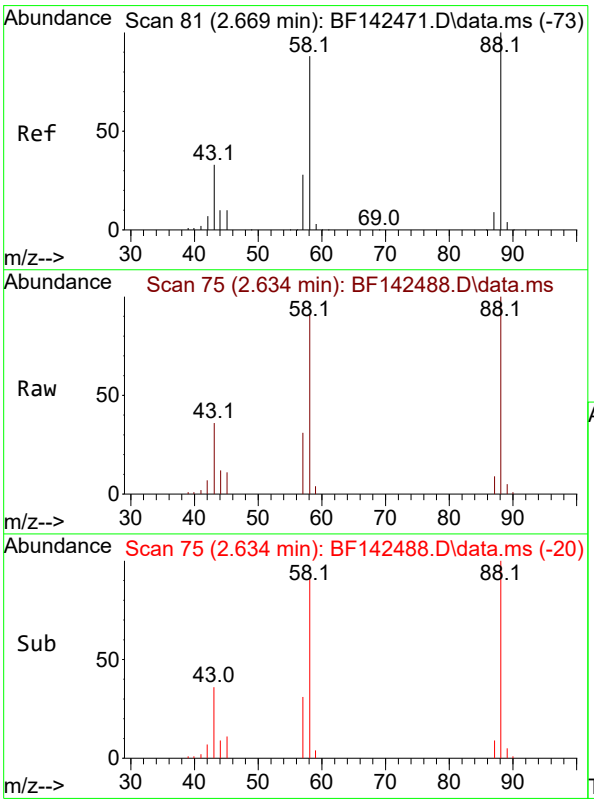
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:152 Resp: 53473

Ion	Ratio	Lower	Upper
152	100		
150	158.3	128.2	192.4
115	56.5	48.3	72.5

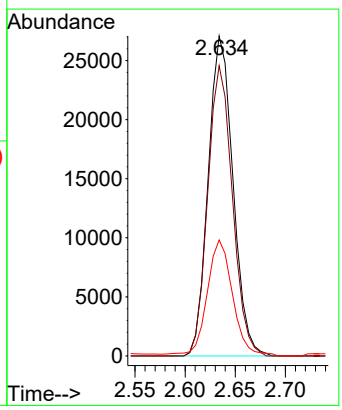


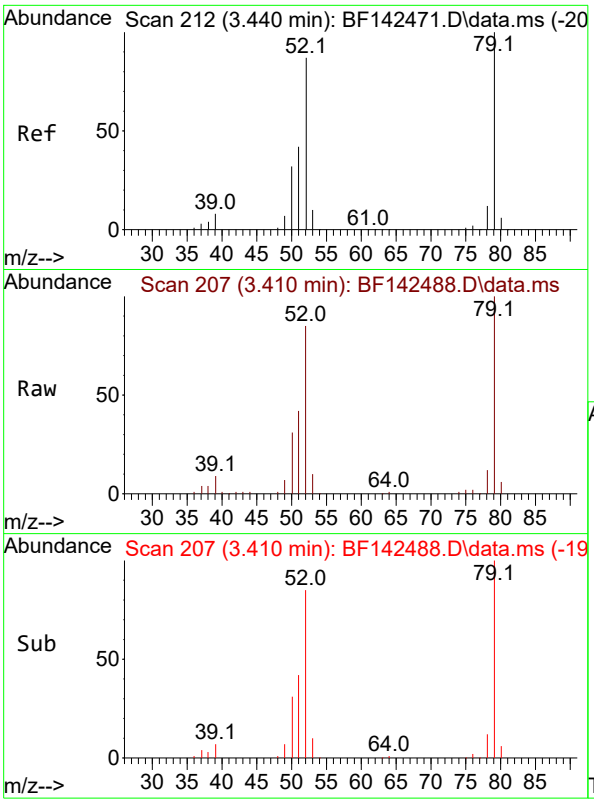


#2
1,4-Dioxane
Concen: 36.580 ng
RT: 2.634 min Scan# 75
Delta R.T. -0.029 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion: 88 Resp: 46460

Ion	Ratio	Lower	Upper
88	100		
58	90.3	70.8	106.2
43	37.5	26.6	40.0



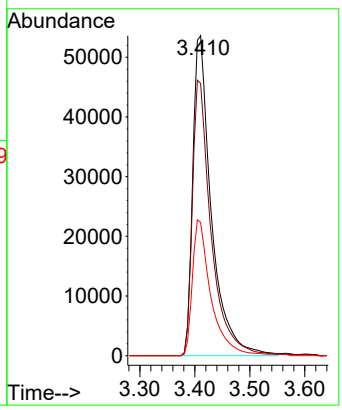


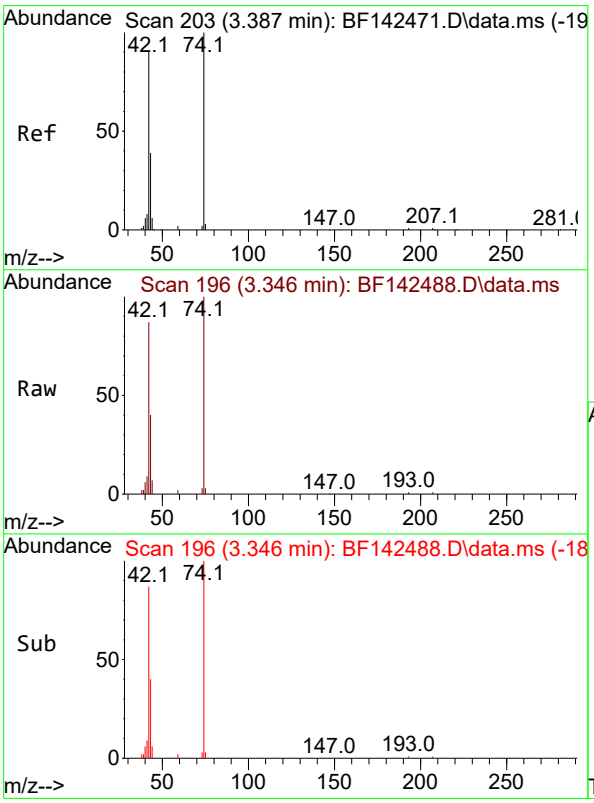
#3
Pyridine
Concen: 39.007 ng
RT: 3.410 min Scan# 2
Delta R.T. -0.029 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion: 79 Resp: 126162

Ion	Ratio	Lower	Upper
79	100		
52	85.1	69.2	103.8
51	41.6	33.3	49.9

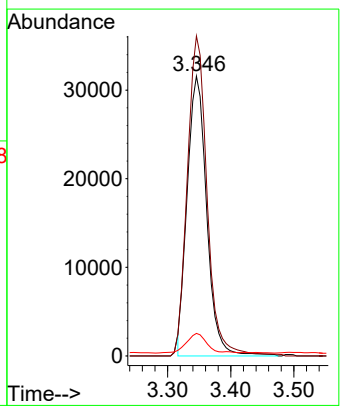


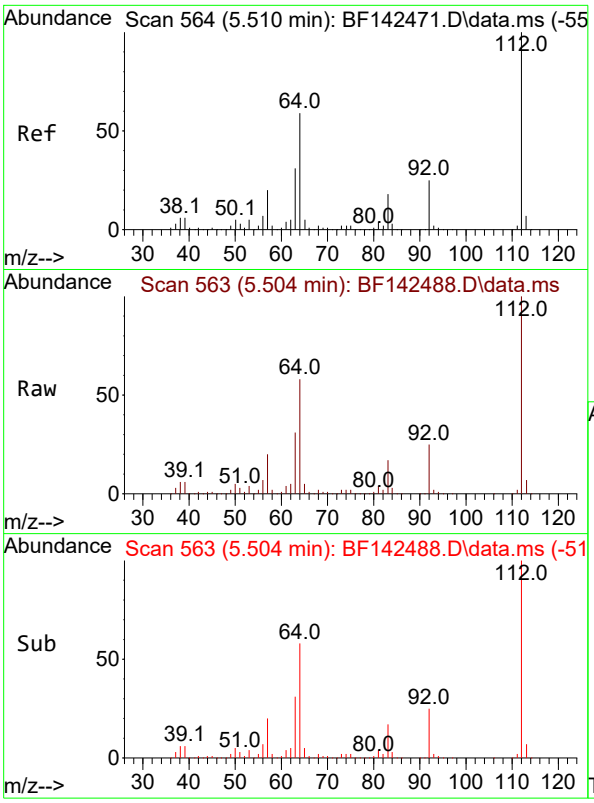


#4
n-Nitrosodimethylamine
Concen: 40.373 ng
RT: 3.346 min Scan# 196
Delta R.T. -0.059 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion: 42 Resp: 67799

Ion	Ratio	Lower	Upper
42	100		
74	114.4	88.2	132.4
44	8.1	5.4	8.2



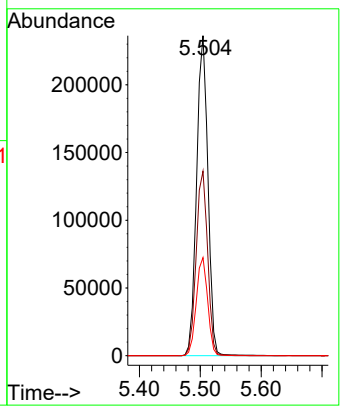


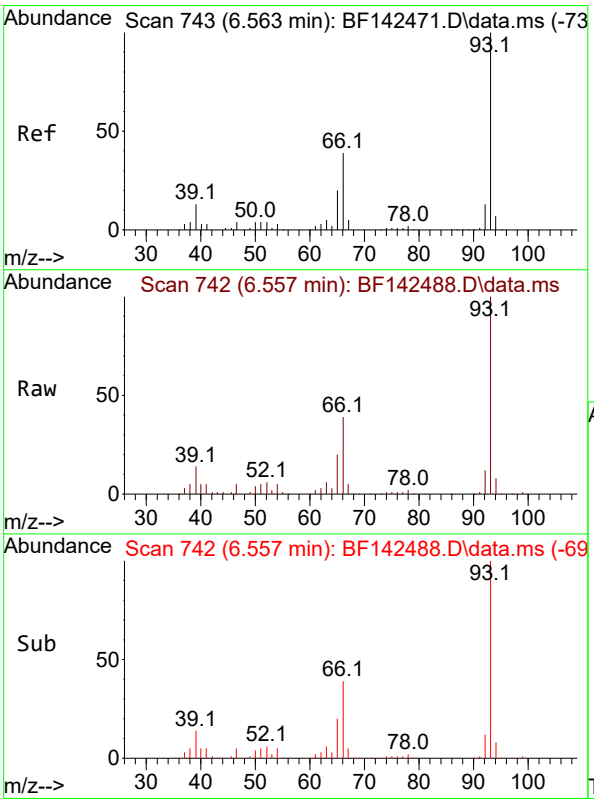
#5
2-Fluorophenol
Concen: 95.805 ng
RT: 5.504 min Scan# 5
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:112 Resp: 304079

Ion	Ratio	Lower	Upper
112	100		
64	57.7	47.5	71.3
63	30.7	24.9	37.3

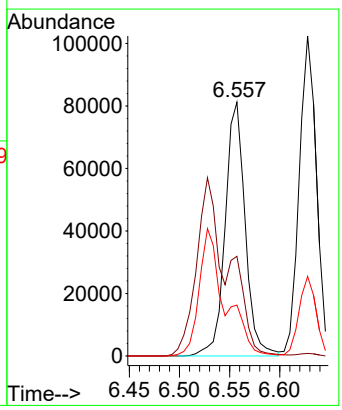


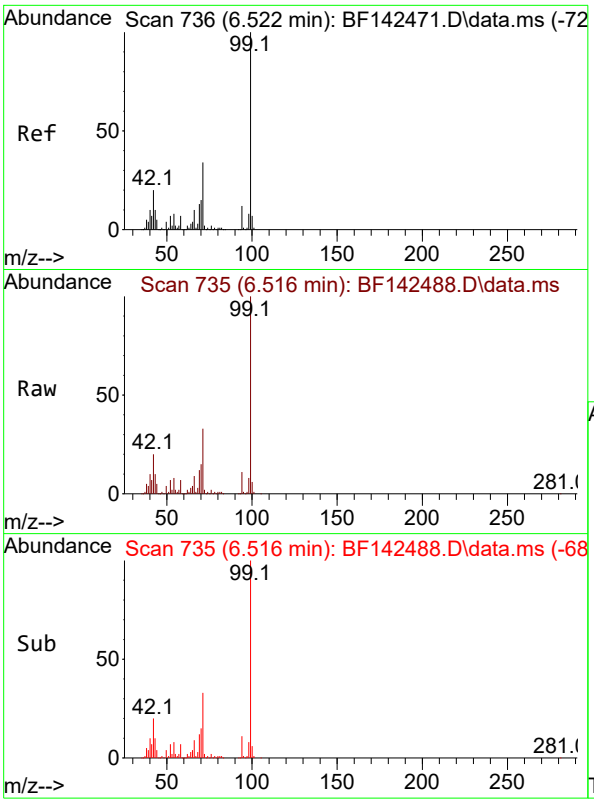


#6
Aniline
Concen: 21.959 ng
RT: 6.557 min Scan# 742
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion: 93 Resp: 112810

Ion	Ratio	Lower	Upper
93	100		
66	39.2	32.0	48.0
65	20.1	16.1	24.1



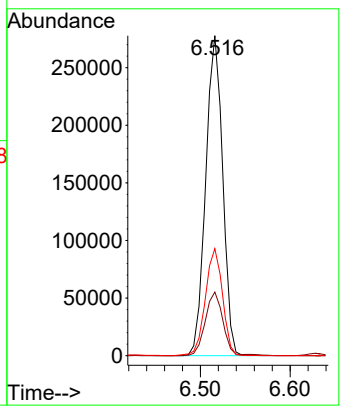


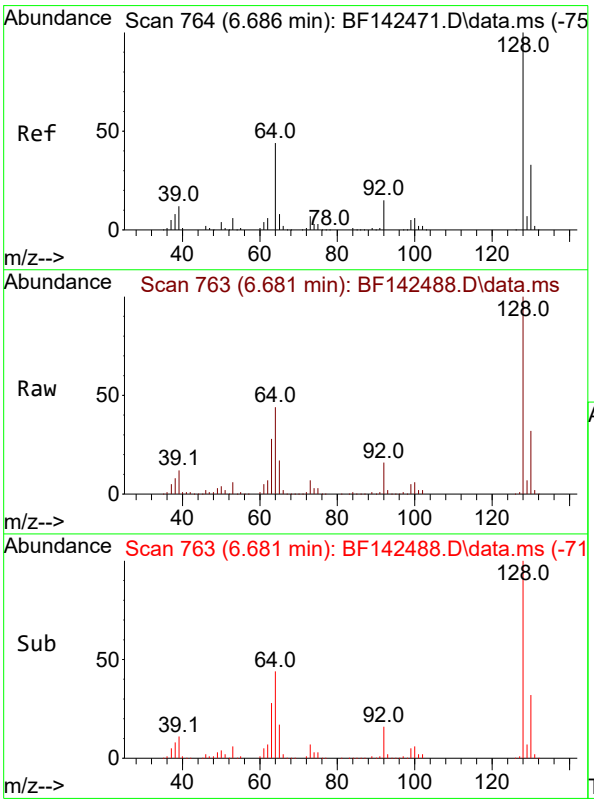
#7
Phenol-d6
Concen: 95.621 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion: 99 Resp: 365334

Ion	Ratio	Lower	Upper
99	100		
42	19.9	16.2	24.2
71	33.5	27.3	40.9

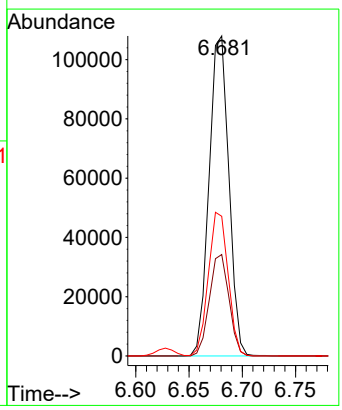


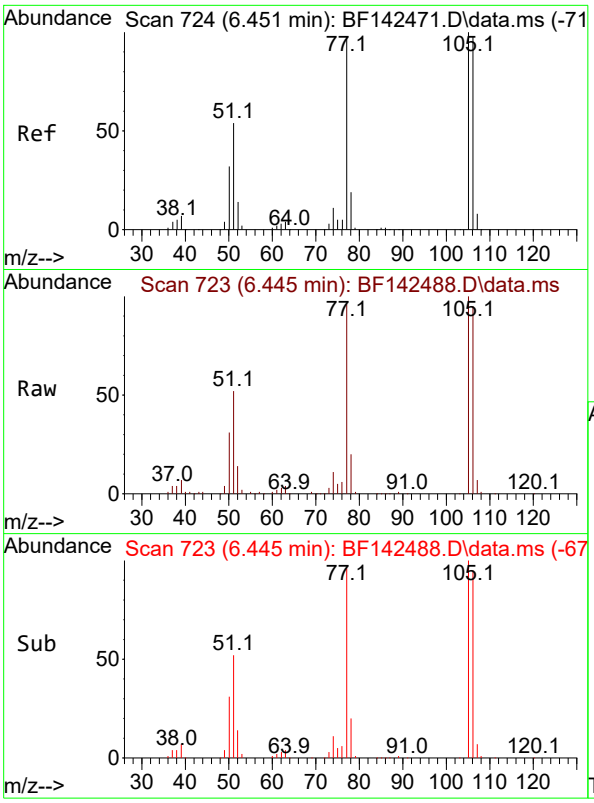


#8
2-Chlorophenol
Concen: 40.245 ng
RT: 6.681 min Scan# 763
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:128 Resp: 139131

Ion	Ratio	Lower	Upper
128	100		
130	31.7	12.6	52.6
64	43.7	25.1	65.1



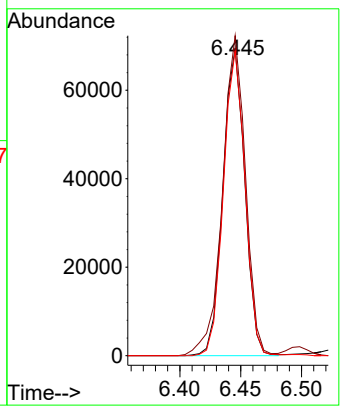


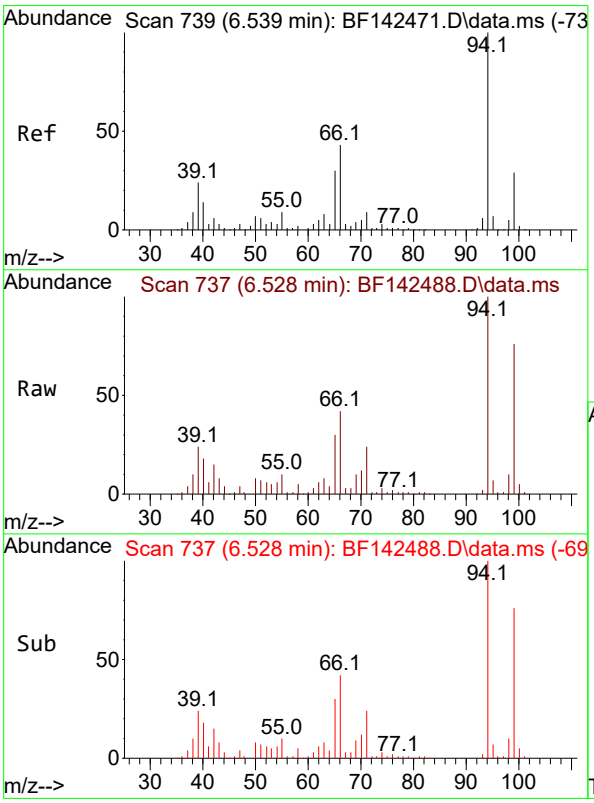
#9
Benzaldehyde
Concen: 37.703 ng
RT: 6.445 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion: 77 Resp: 86641

Ion	Ratio	Lower	Upper
77	100		
105	104.0	82.5	122.5
106	99.1	80.0	120.0

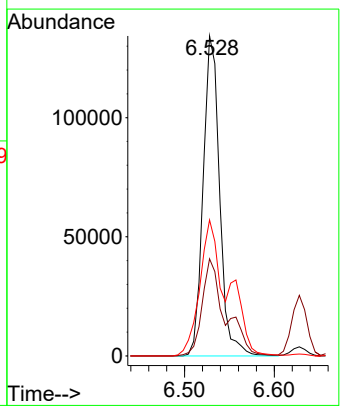


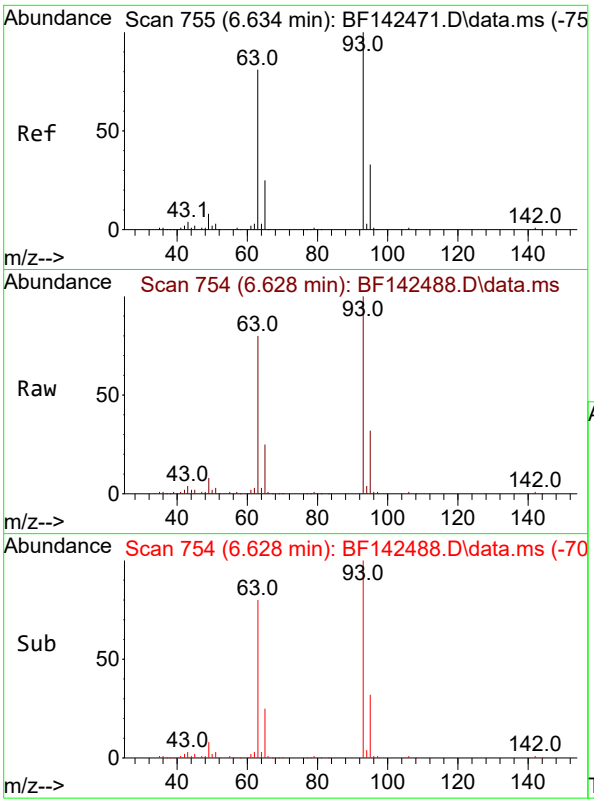


#10
Phenol
Concen: 39.829 ng
RT: 6.528 min Scan# 737
Delta R.T. -0.023 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion: 94 Resp: 171228

Ion	Ratio	Lower	Upper
94	100		
65	30.4	10.3	50.3
66	42.5	22.6	62.6



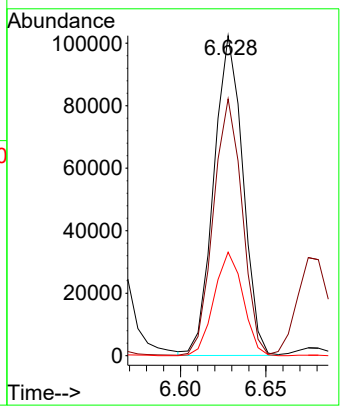


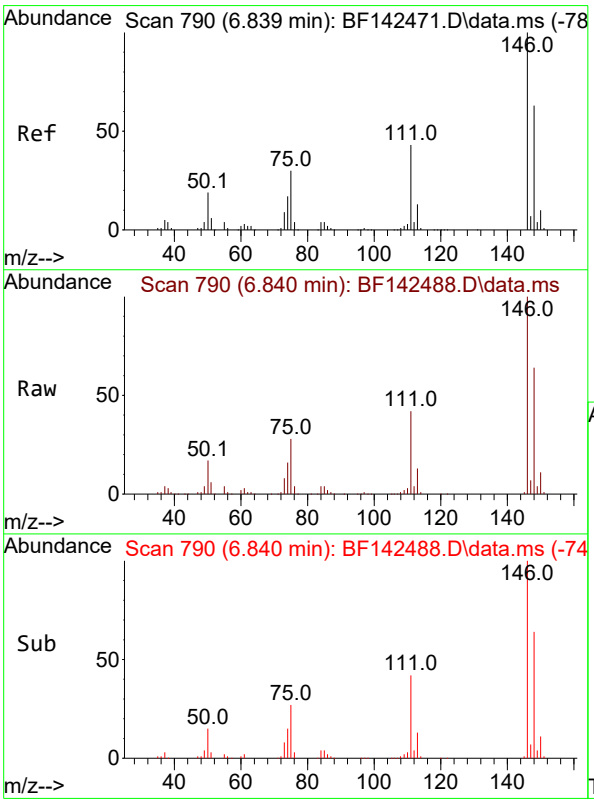
#11
bis(2-Chloroethyl)ether
Concen: 39.208 ng
RT: 6.628 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion: 93 Resp: 121333

Ion	Ratio	Lower	Upper
93	100		
63	80.2	60.2	100.2
95	32.4	12.3	52.3

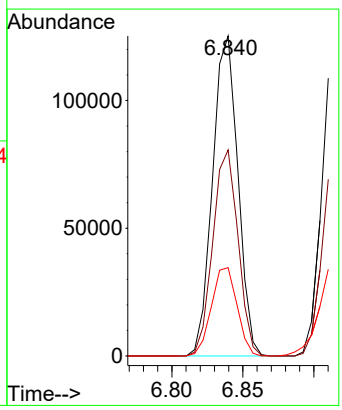


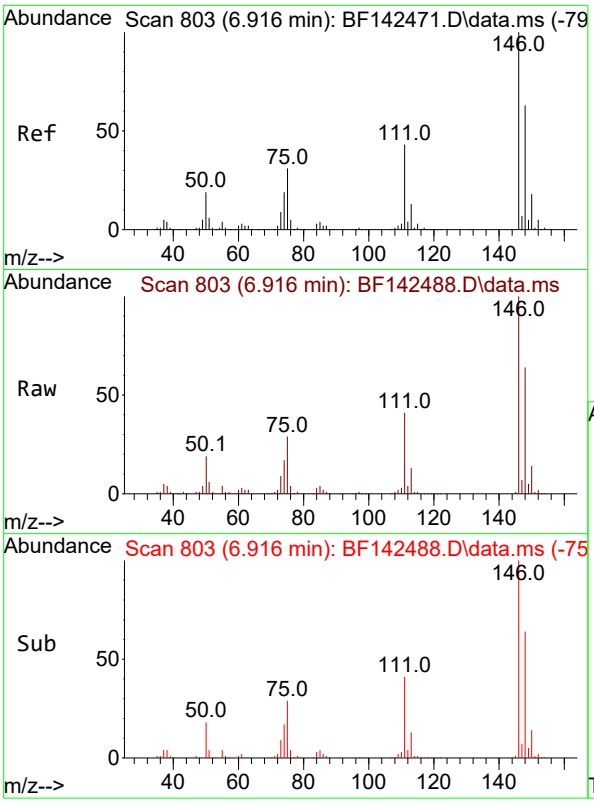


#12
1,3-Dichlorobenzene
Concen: 40.230 ng
RT: 6.840 min Scan# 790
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:146 Resp: 155190

Ion	Ratio	Lower	Upper
146	100		
148	64.4	50.6	75.8
75	27.6	23.8	35.6



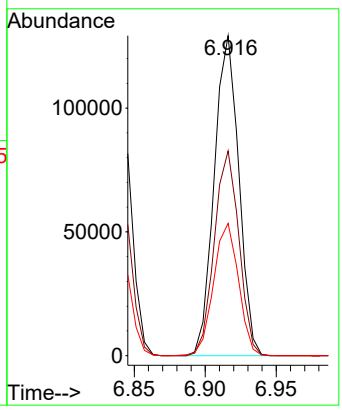


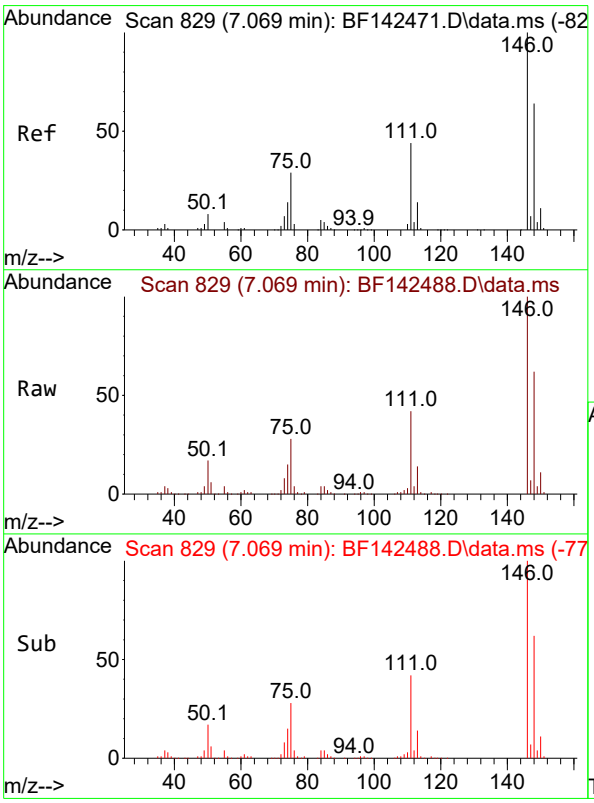
#13
1,4-Dichlorobenzene
Concen: 39.995 ng
RT: 6.916 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:146 Resp: 155412

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.4	75.6
111	41.4	34.1	51.1

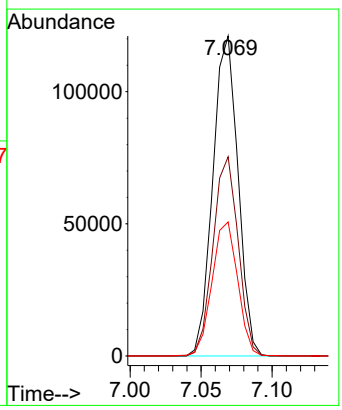


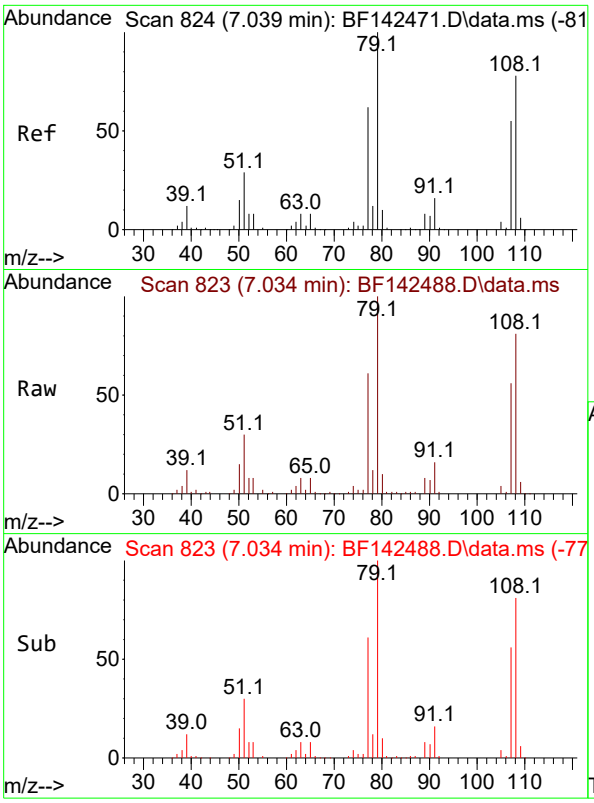


#14
1,2-Dichlorobenzene
Concen: 40.127 ng
RT: 7.069 min Scan# 829
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:146 Resp: 149202

Ion	Ratio	Lower	Upper
146	100		
148	62.2	51.0	76.4
111	41.9	35.0	52.6



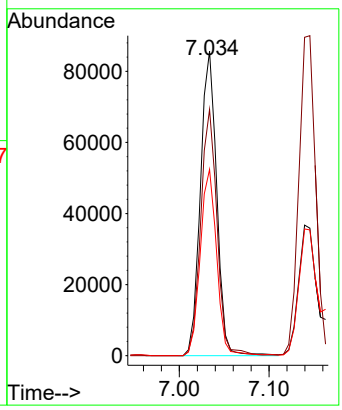


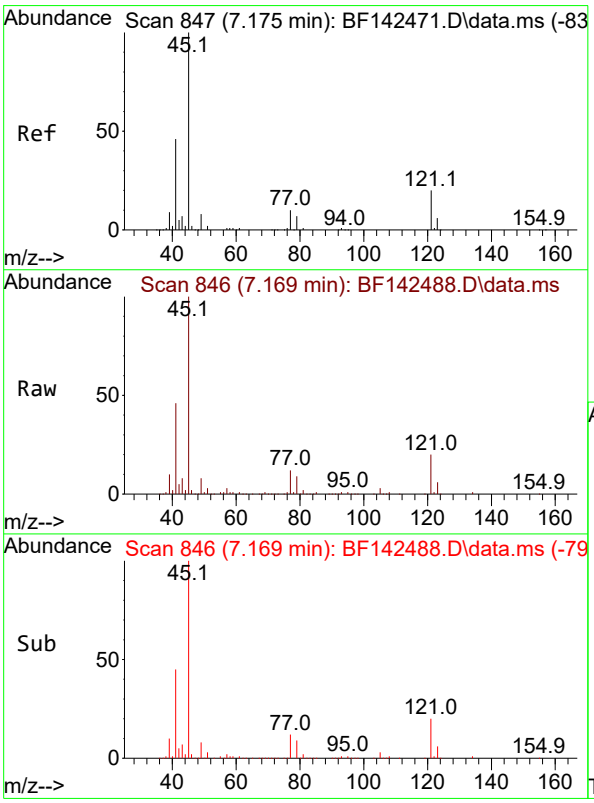
#15
Benzyl Alcohol
Concen: 38.264 ng
RT: 7.034 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion: 79 Resp: 108038

Ion	Ratio	Lower	Upper
79	100		
108	80.9	62.1	93.1
77	61.1	49.5	74.3

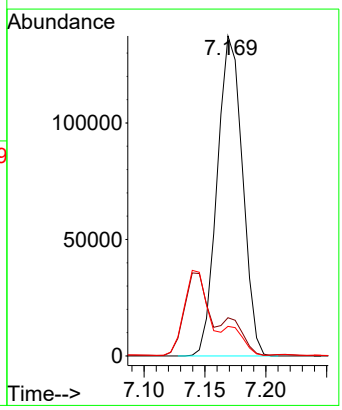


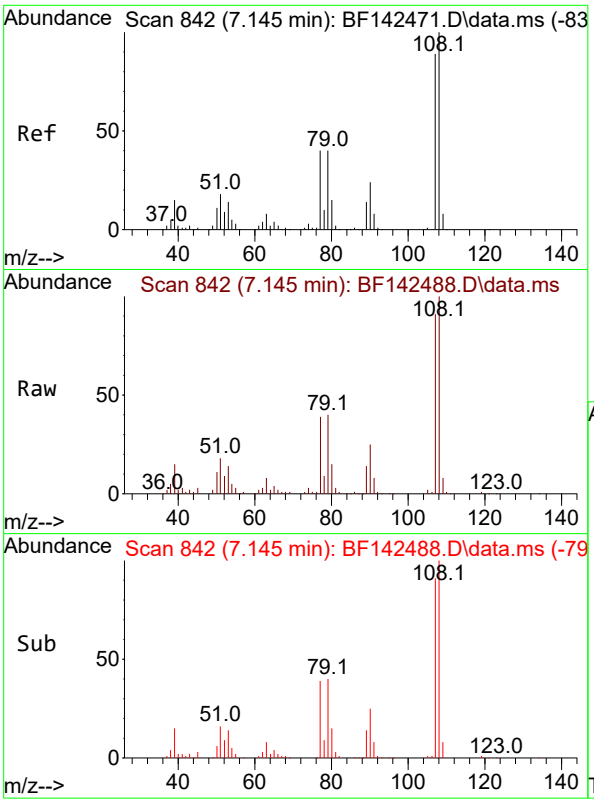


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.213 ng
RT: 7.169 min Scan# 846
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion: 45 Resp: 198589

Ion	Ratio	Lower	Upper
45	100		
77	12.0	0.0	32.0
79	9.2	0.0	29.2



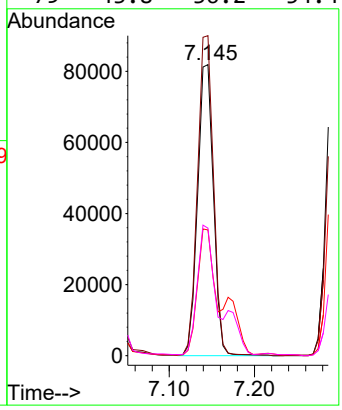


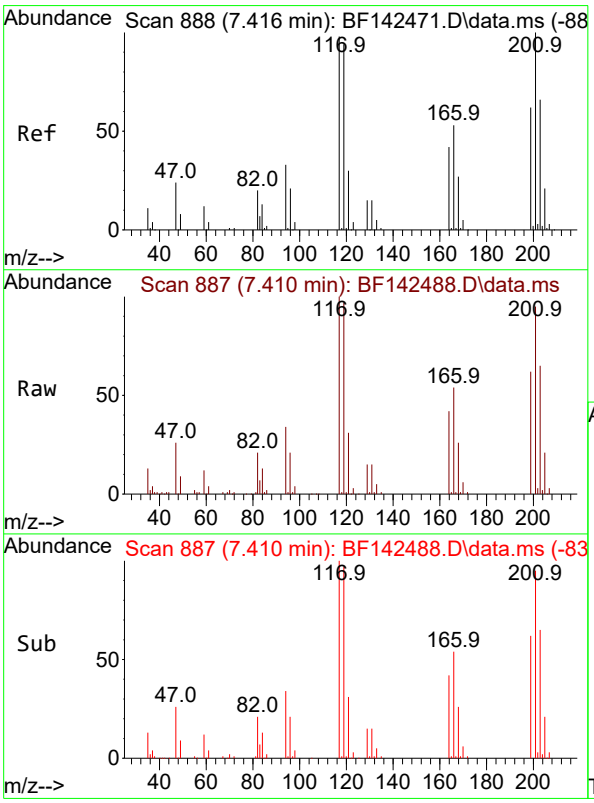
#17
2-Methylphenol
Concen: 39.184 ng
RT: 7.145 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:107 Resp: 105761

Ion	Ratio	Lower	Upper
107	100		
108	109.9	90.2	135.2
77	43.2	36.1	54.1
79	43.8	36.2	54.4

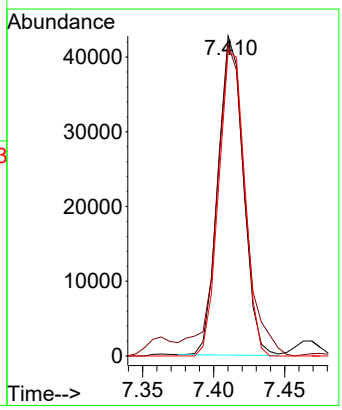


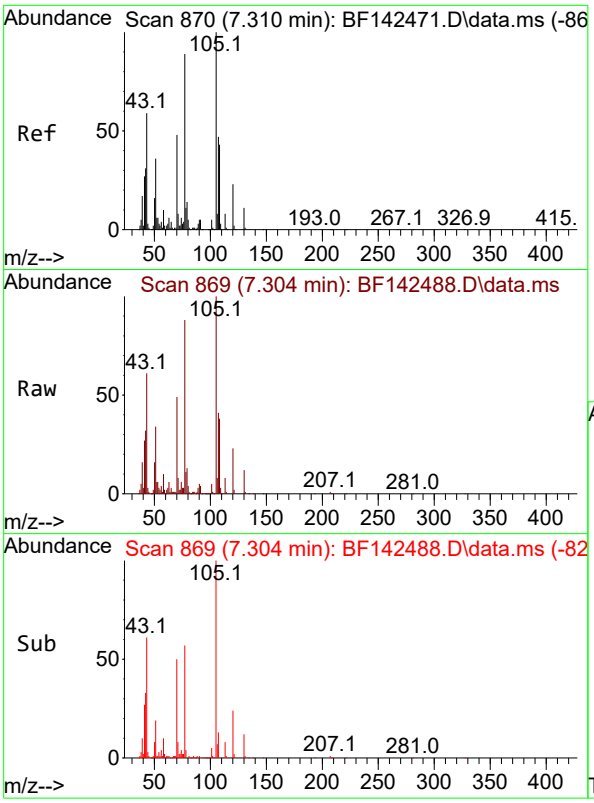


#18
Hexachloroethane
Concen: 39.204 ng
RT: 7.410 min Scan# 887
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:117 Resp: 53195

Ion	Ratio	Lower	Upper
117	100		
119	97.3	76.6	114.8
201	95.4	81.3	121.9



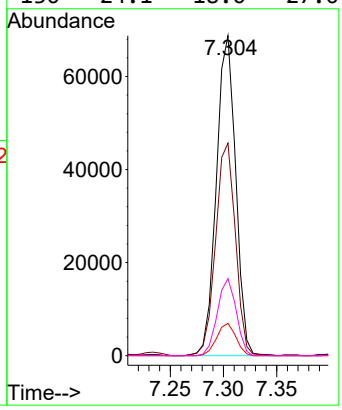


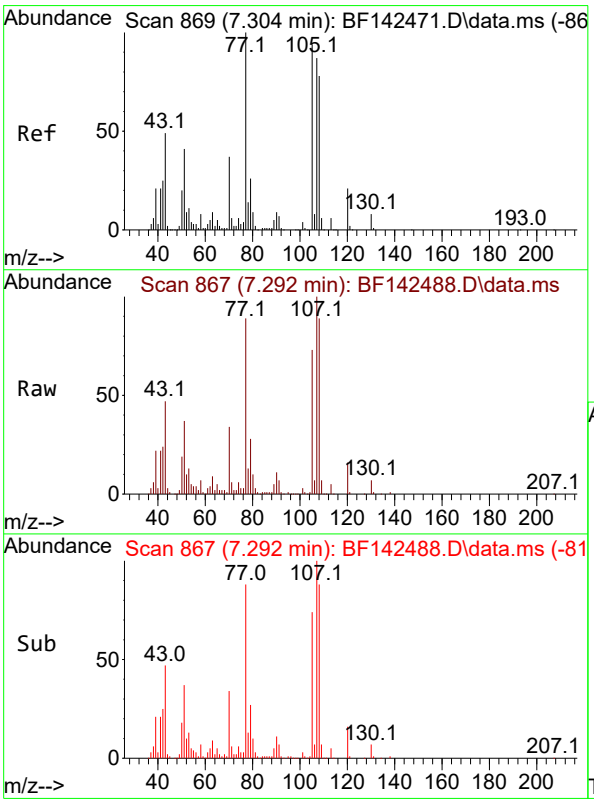
#19
n-Nitroso-di-n-propylamine
Concen: 36.631 ng
RT: 7.304 min Scan# 8
Delta R.T. -0.023 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion: 70 Resp: 86737

Ion	Ratio	Lower	Upper
70	100		
42	66.4	52.4	78.6
101	10.1	7.8	11.8
130	24.1	18.0	27.0

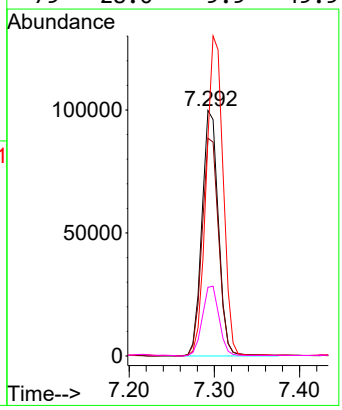


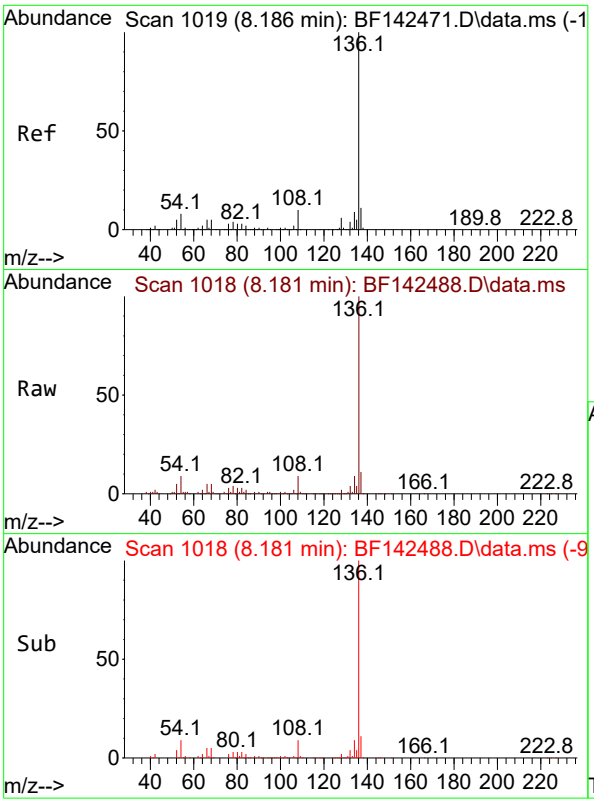


#20
3+4-Methylphenols
Concen: 38.800 ng
RT: 7.292 min Scan# 867
Delta R.T. -0.018 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:107 Resp: 134110

Ion	Ratio	Lower	Upper
107	100		
108	88.7	70.4	110.4
77	88.8	95.4	135.4#
79	28.0	9.9	49.9



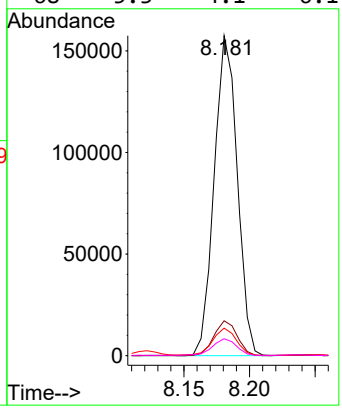


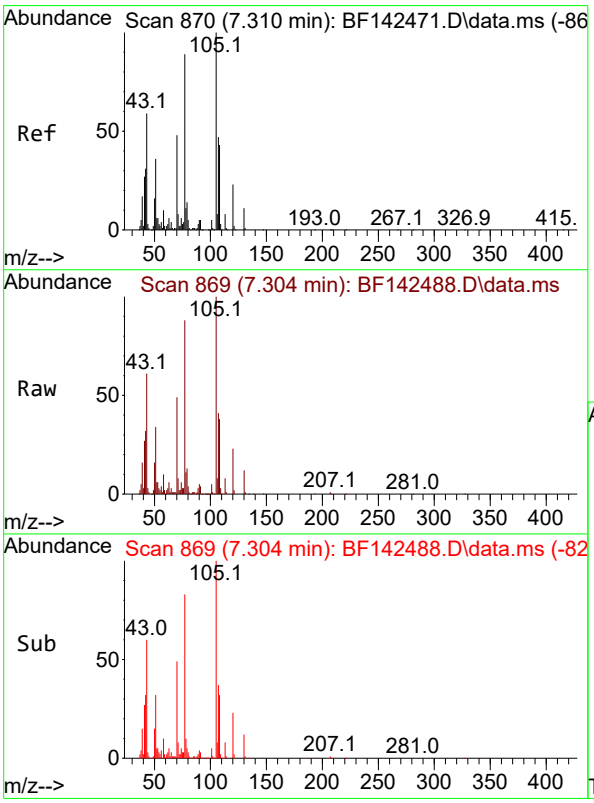
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:136 Resp: 192497

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.6	6.6	10.0
68	5.3	4.1	6.1

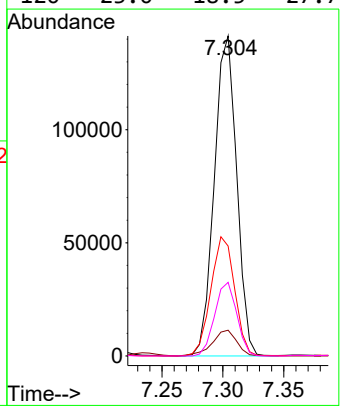


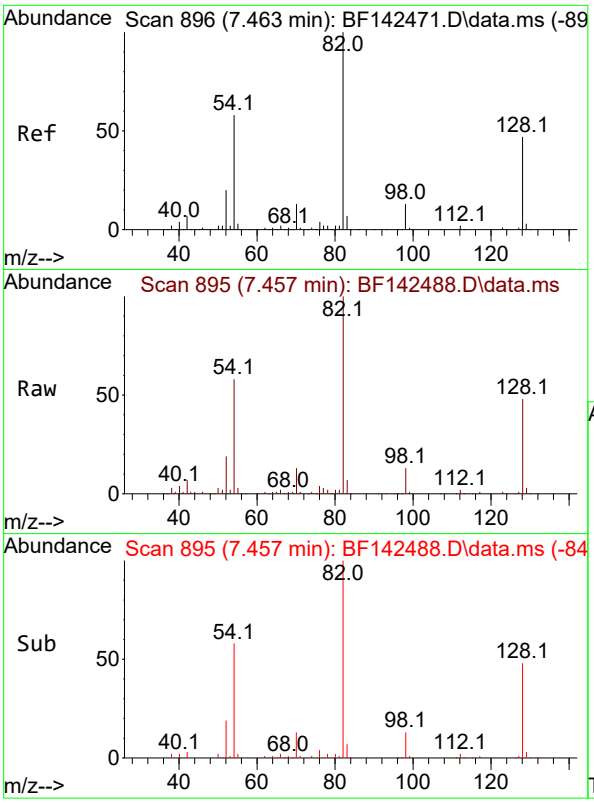


#22
Acetophenone
Concen: 42.510 ng
RT: 7.304 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:105 Resp: 181145

Ion	Ratio	Lower	Upper
105	100		
71	8.0	6.4	9.6
51	34.3	28.6	42.8
120	23.0	18.5	27.7



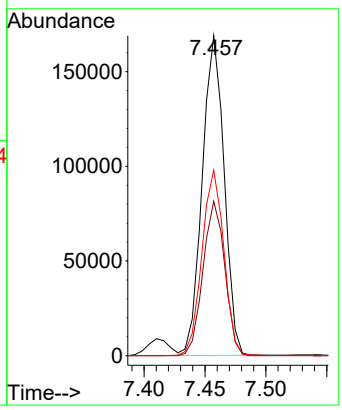


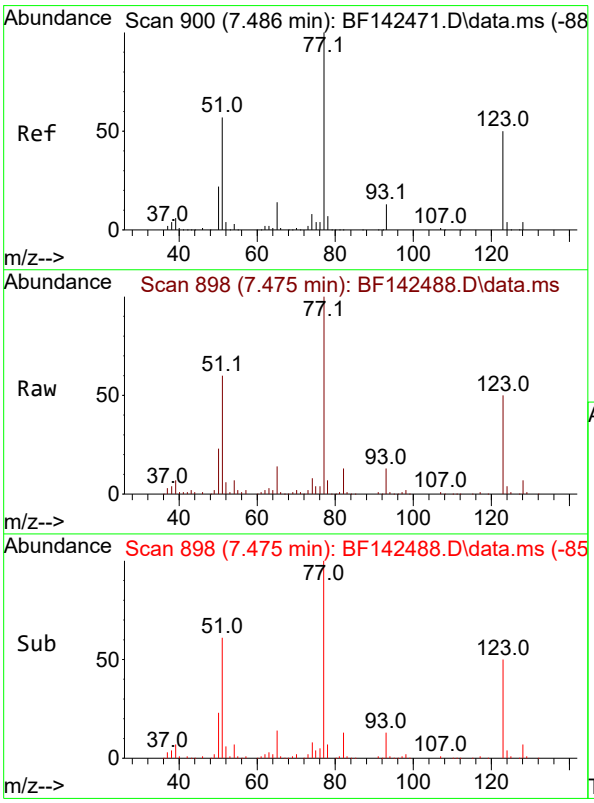
#23
Nitrobenzene-d5
Concen: 59.553 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion: 82 Resp: 210235

Ion	Ratio	Lower	Upper
82	100		
128	48.2	37.4	56.2
54	58.0	46.6	70.0

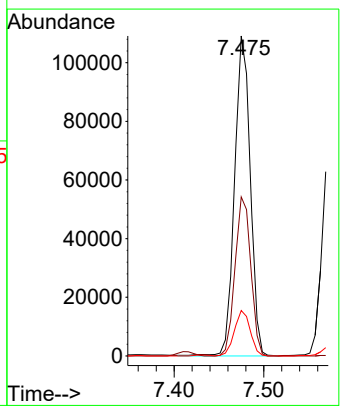


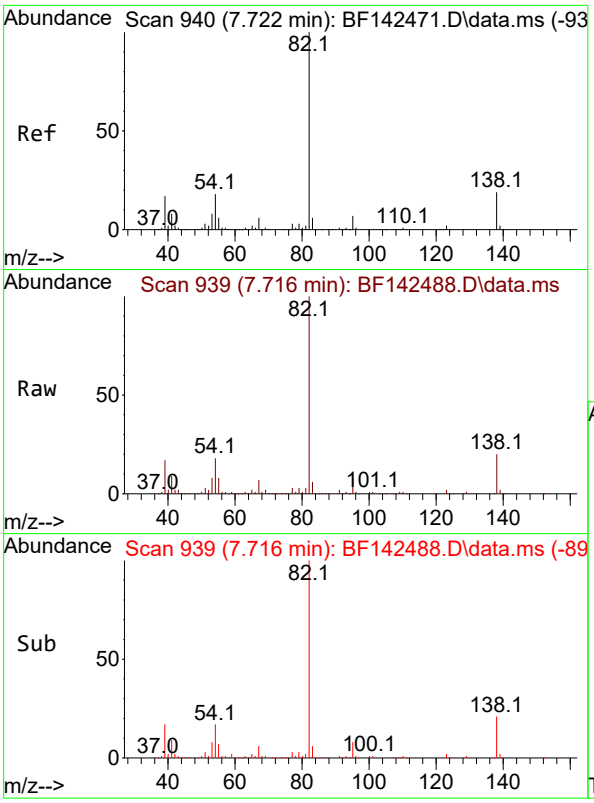


#24
Nitrobenzene
Concen: 41.719 ng
RT: 7.475 min Scan# 898
Delta R.T. -0.018 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion: 77 Resp: 132830

Ion	Ratio	Lower	Upper
77	100		
123	49.7	40.6	61.0
65	14.2	11.4	17.2



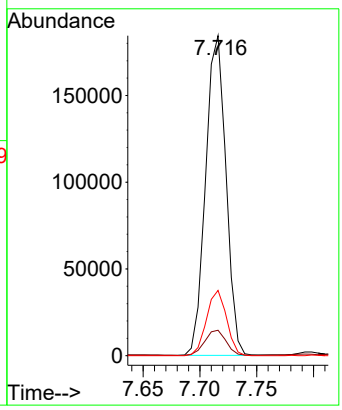


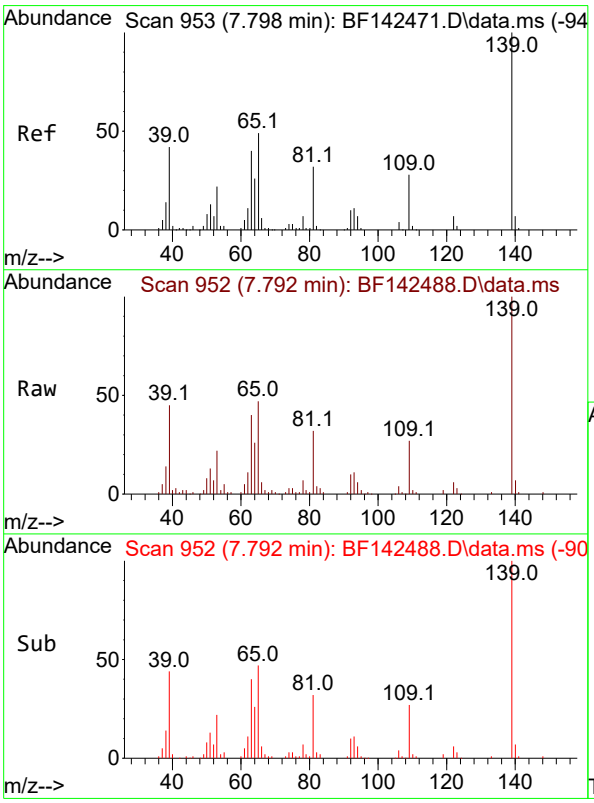
#25
Isophorone
Concen: 38.979 ng
RT: 7.716 min Scan# 9
Delta R.T. -0.018 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion: 82 Resp: 230066

Ion	Ratio	Lower	Upper
82	100		
95	7.9	6.0	9.0
138	20.4	15.5	23.3

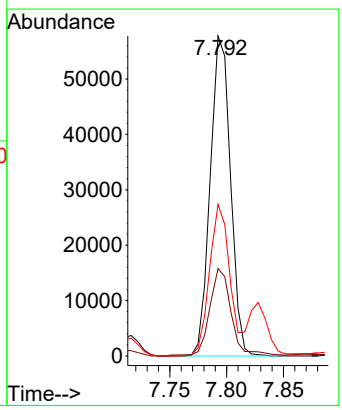


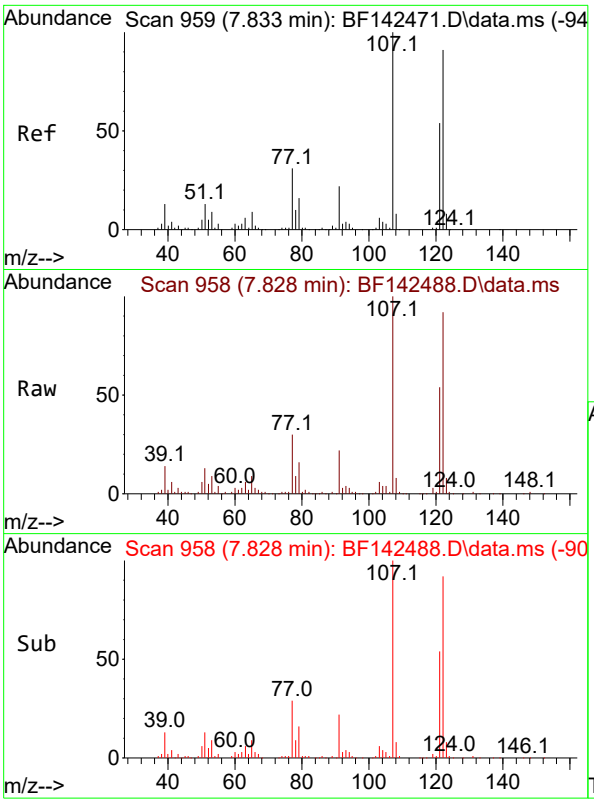


#26
2-Nitrophenol
Concen: 42.161 ng
RT: 7.792 min Scan# 952
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:139 Resp: 71728

Ion	Ratio	Lower	Upper
139	100		
109	27.3	22.6	33.8
65	47.3	39.4	59.0



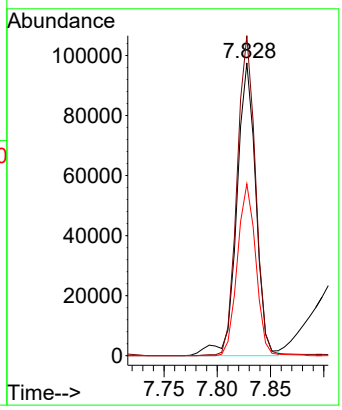


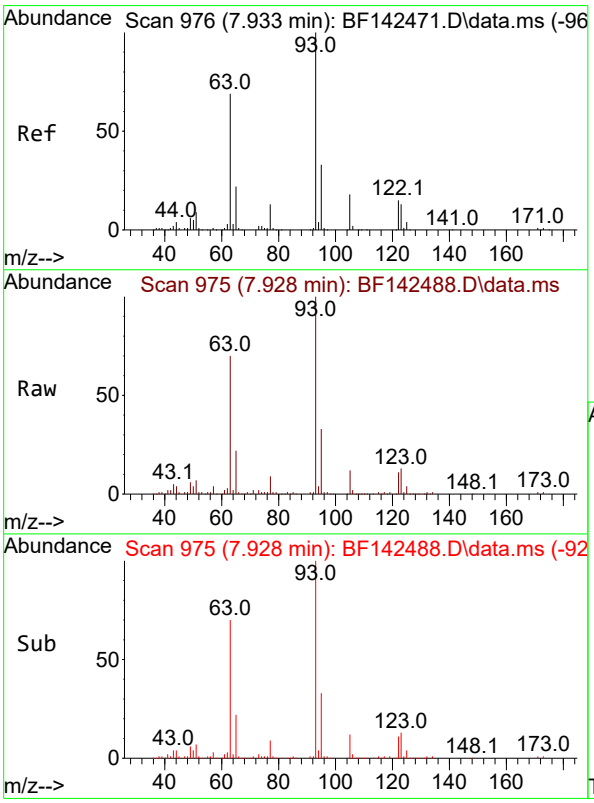
#27
2,4-Dimethylphenol
Concen: 40.517 ng
RT: 7.828 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:122 Resp: 121560

Ion	Ratio	Lower	Upper
122	100		
107	109.3	88.1	132.1
121	58.7	47.3	70.9

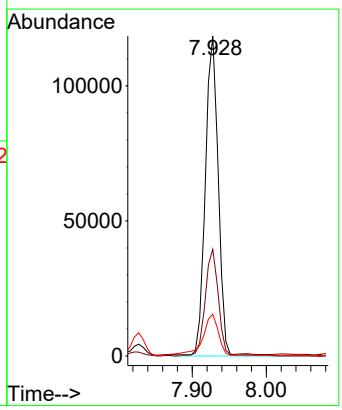


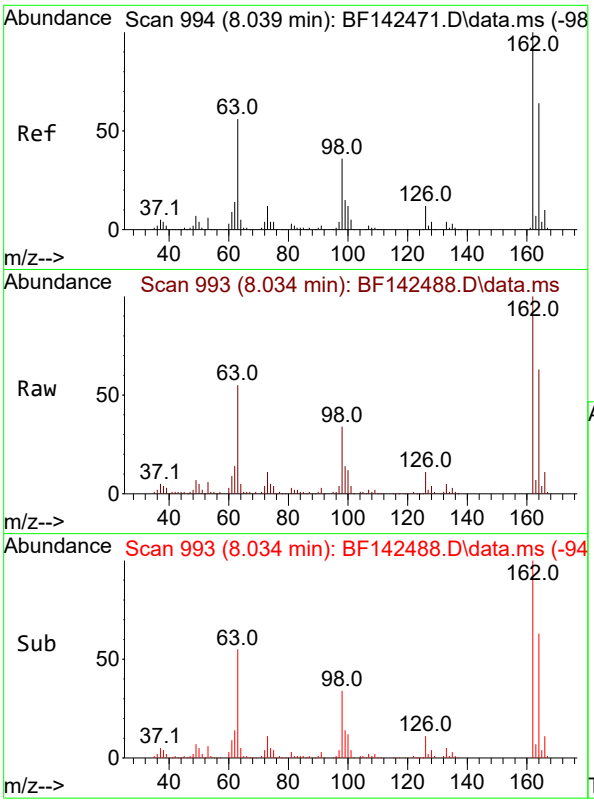


#28
bis(2-Chloroethoxy)methane
Concen: 38.766 ng
RT: 7.928 min Scan# 975
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion: 93 Resp: 142931

Ion	Ratio	Lower	Upper
93	100		
95	33.4	26.4	39.6
123	13.1	10.6	15.8



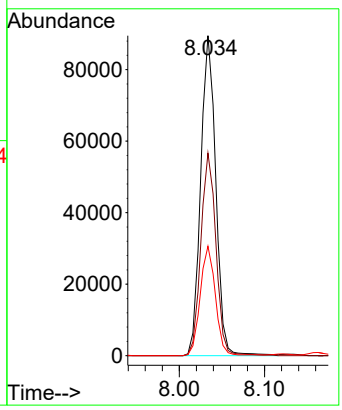


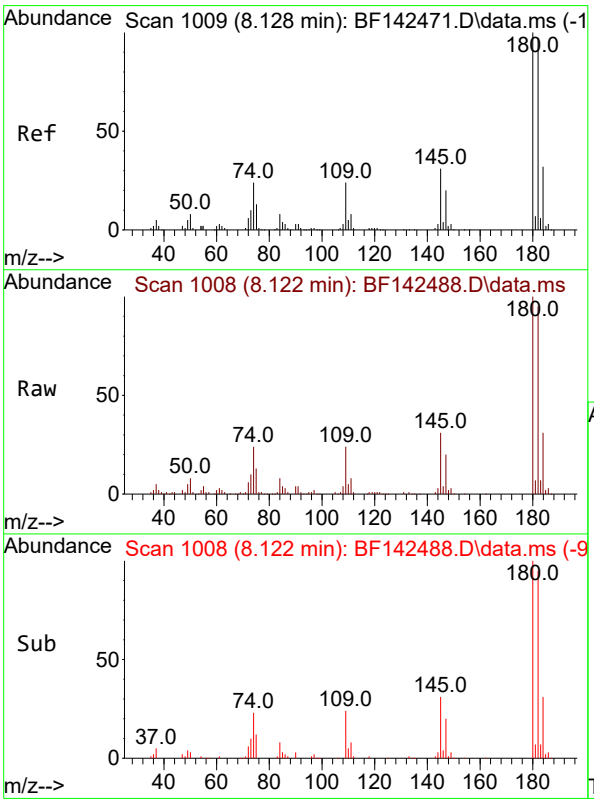
#29
2,4-Dichlorophenol
Concen: 40.402 ng
RT: 8.034 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:162 Resp: 110236

Ion	Ratio	Lower	Upper
162	100		
164	63.3	43.7	83.7
98	34.2	15.5	55.5

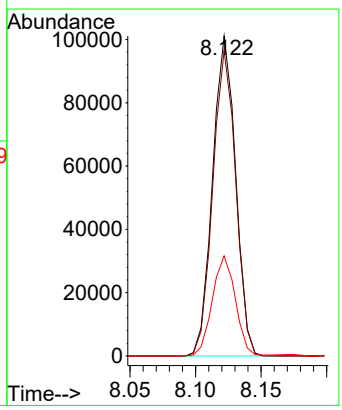


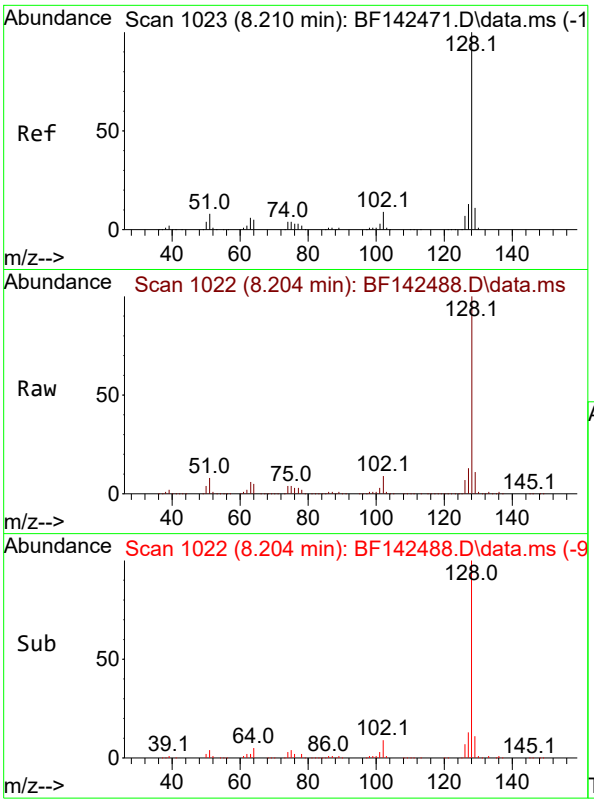


#30
1,2,4-Trichlorobenzene
Concen: 41.617 ng
RT: 8.122 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:180 Resp: 123234

Ion	Ratio	Lower	Upper
180	100		
182	95.4	78.0	117.0
145	31.3	25.0	37.6



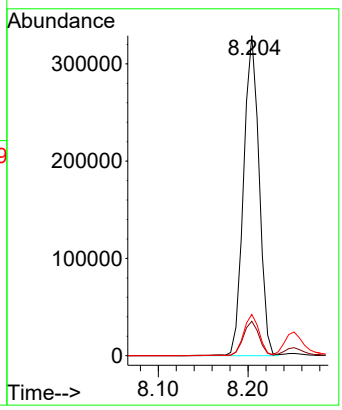


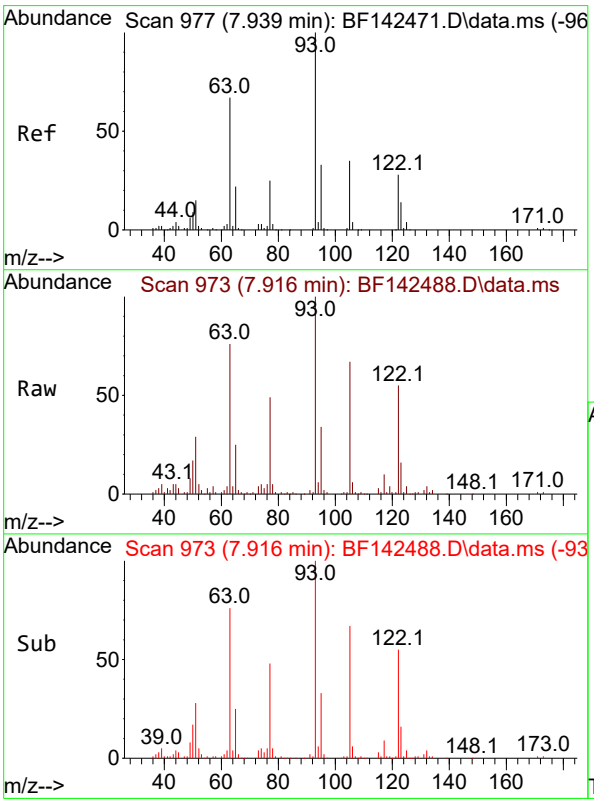
#31
Naphthalene
Concen: 41.641 ng
RT: 8.204 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:128 Resp: 394689

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.9	13.3
127	12.9	10.5	15.7

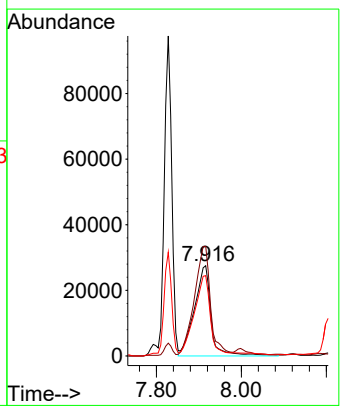


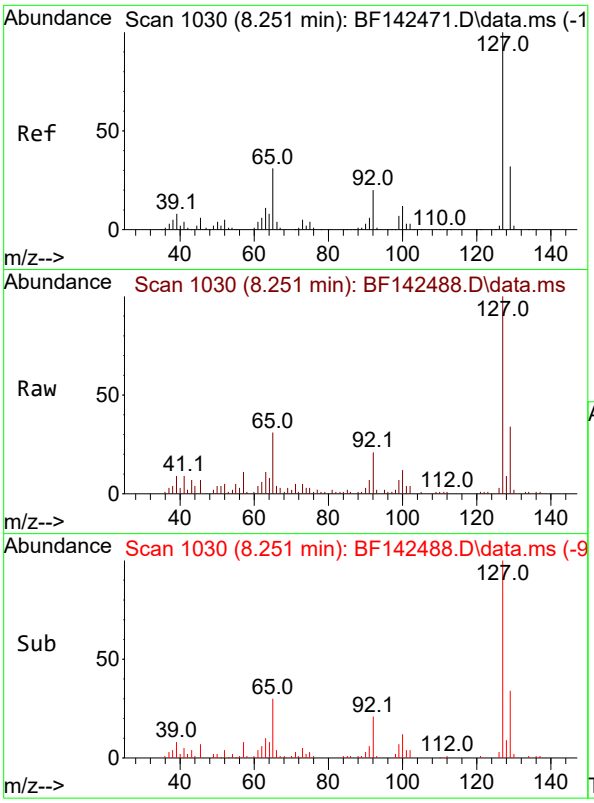


#32
Benzoic acid
Concen: 41.396 ng m
RT: 7.916 min Scan# 973
Delta R.T. -0.059 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:122 Resp: 75602

Ion	Ratio	Lower	Upper
122	100		
105	121.4	101.7	141.7
77	89.0	69.5	109.5



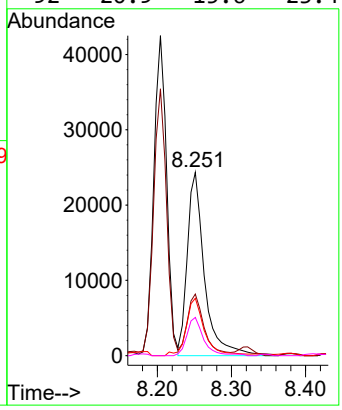


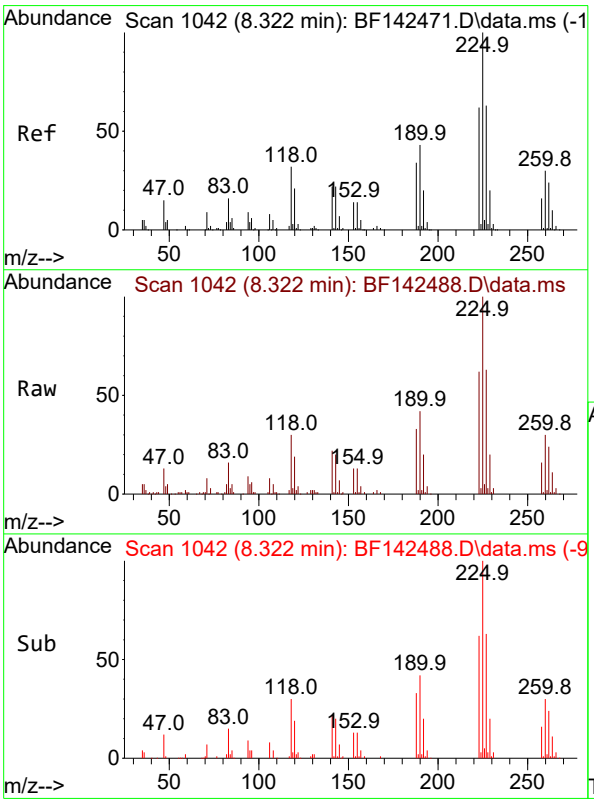
#33
4-Chloroaniline
Concen: 10.289 ng
RT: 8.251 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:127 Resp: 39518

Ion	Ratio	Lower	Upper
127	100		
129	33.6	26.1	39.1
65	31.3	24.9	37.3
92	20.9	15.6	23.4

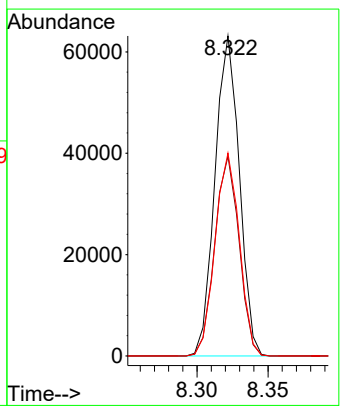


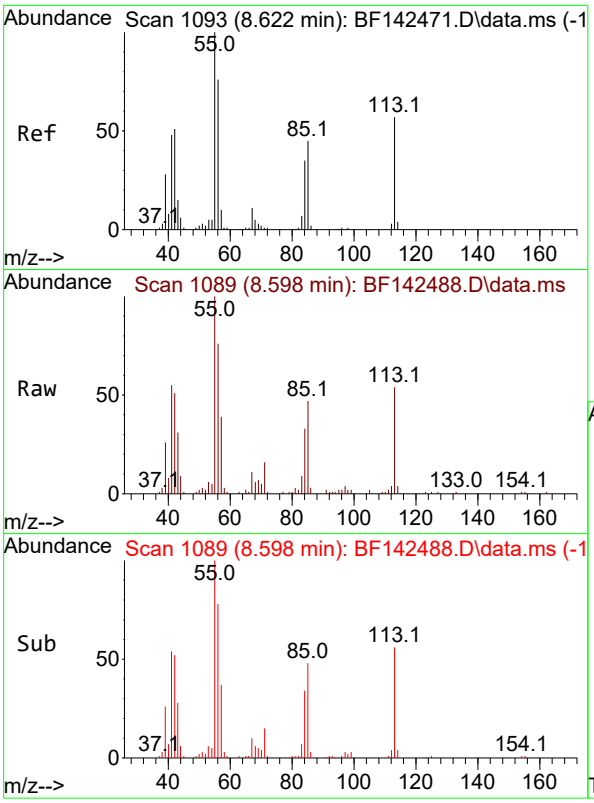


#34
Hexachlorobutadiene
Concen: 40.670 ng
RT: 8.322 min Scan# 1042
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:225 Resp: 75196

Ion	Ratio	Lower	Upper
225	100		
223	62.4	49.7	74.5
227	63.4	50.3	75.5



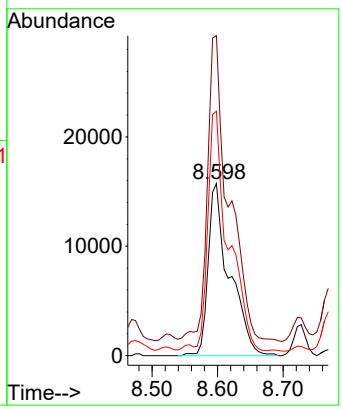


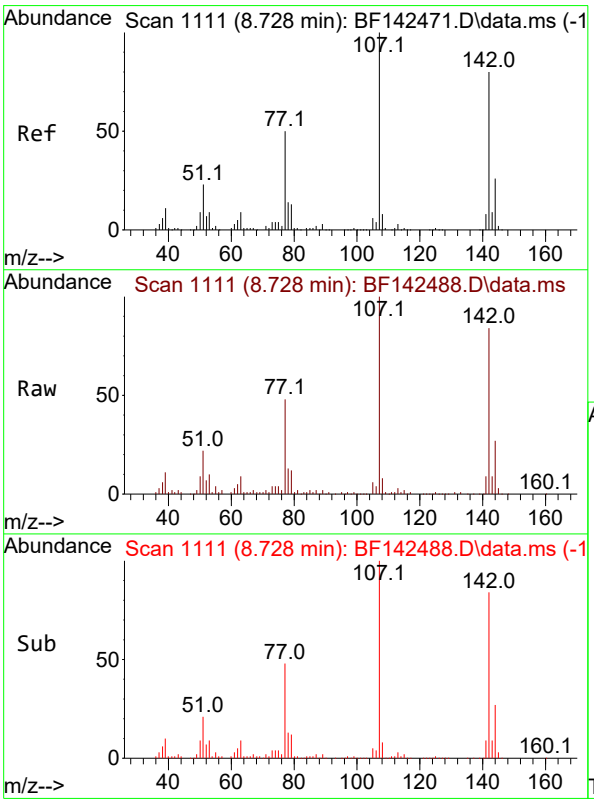
#35
Caprolactam
Concen: 46.294 ng
RT: 8.598 min Scan# 1
Delta R.T. -0.047 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:113 Resp: 35475

Ion	Ratio	Lower	Upper
113	100		
55	185.9	154.7	194.7
56	142.0	113.2	153.2

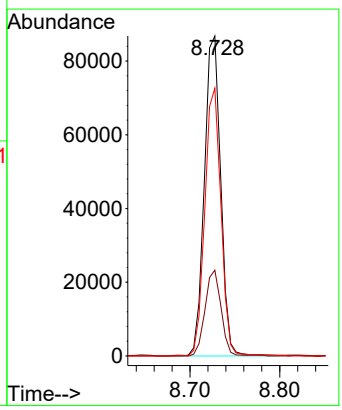


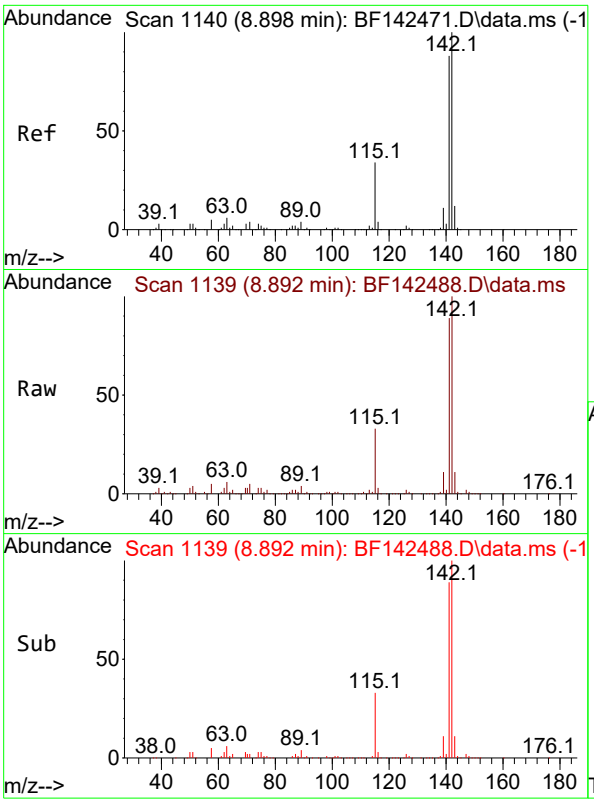


#36
4-Chloro-3-methylphenol
Concen: 39.271 ng
RT: 8.728 min Scan# 1111
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:107 Resp: 109810

Ion	Ratio	Lower	Upper
107	100		
144	26.8	20.9	31.3
142	83.7	64.2	96.2



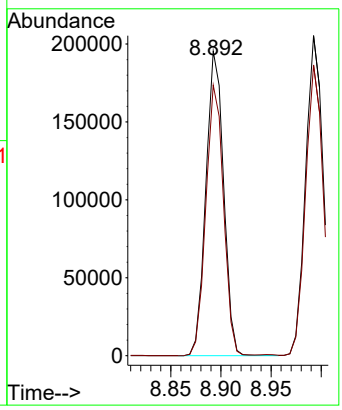


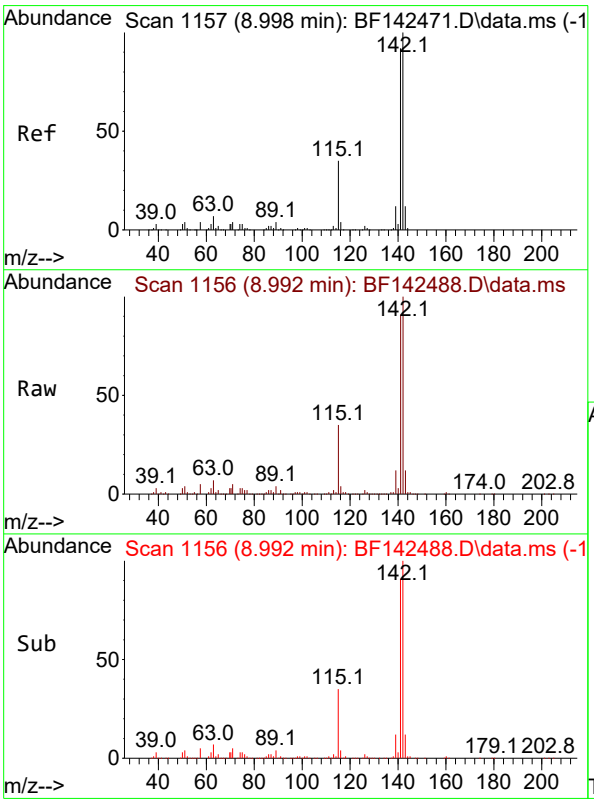
#37
2-Methylnaphthalene
Concen: 40.339 ng
RT: 8.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:142 Resp: 240543

Ion	Ratio	Lower	Upper
142	100		
141	88.9	70.7	106.1

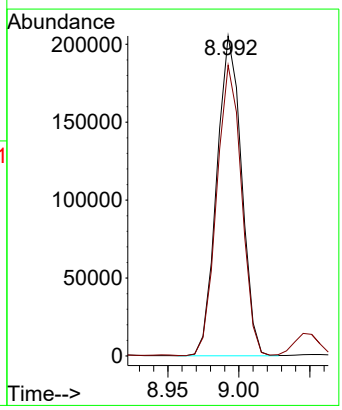


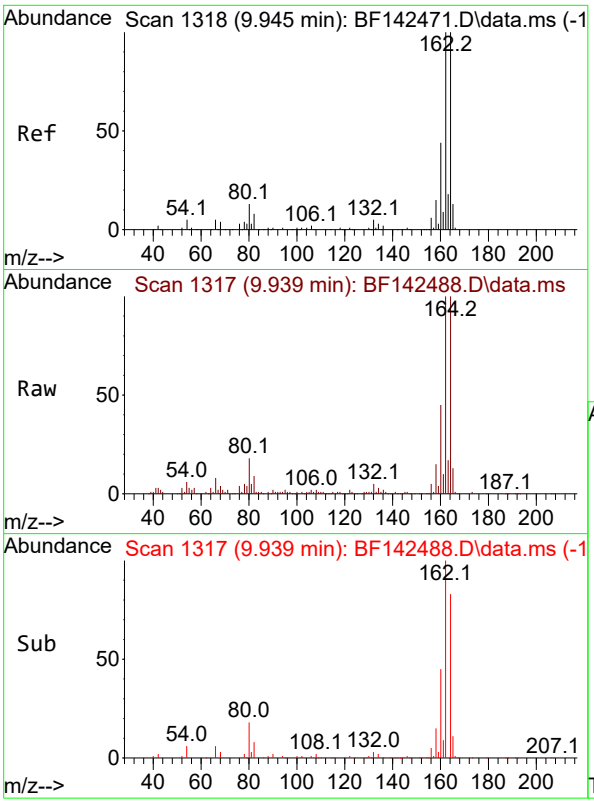


#38
1-Methylnaphthalene
Concen: 40.280 ng
RT: 8.992 min Scan# 1156
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:142 Resp: 248451

Ion	Ratio	Lower	Upper
142	100		
141	90.9	73.4	110.2



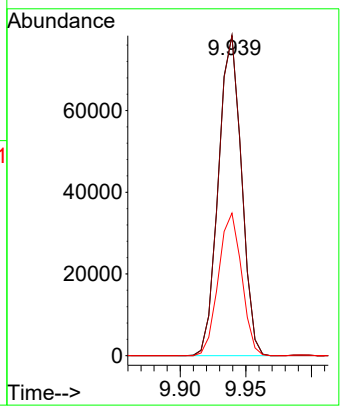


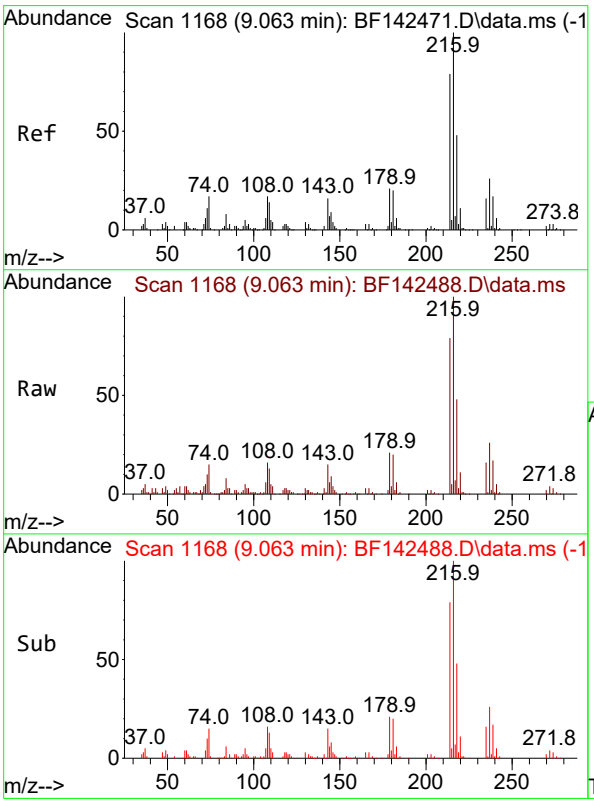
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:164 Resp: 95696

Ion	Ratio	Lower	Upper
164	100		
162	100.0	80.2	120.4
160	44.5	35.6	53.4

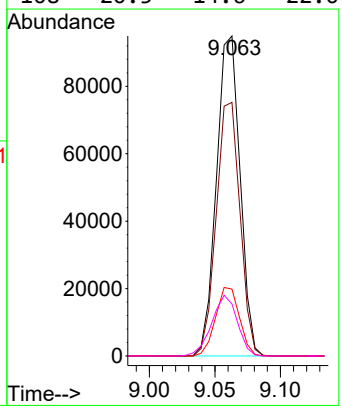


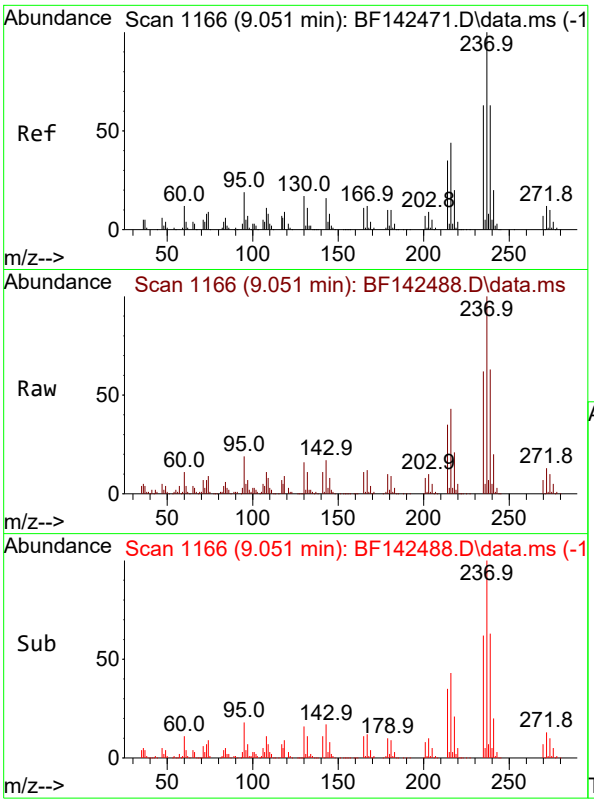


#40
1,2,4,5-Tetrachlorobenzene
Concen: 43.238 ng
RT: 9.063 min Scan# 1168
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:216 Resp: 118777

Ion	Ratio	Lower	Upper
216	100		
214	79.8	62.9	94.3
179	21.6	16.9	25.3
108	20.5	14.6	22.0



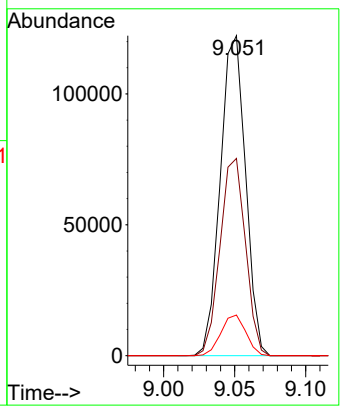


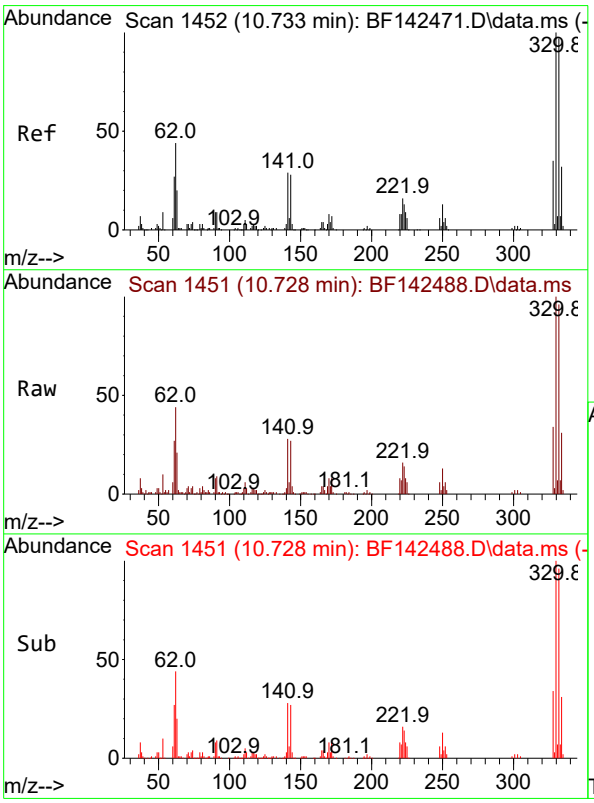
#41
Hexachlorocyclopentadiene
Concen: 81.543 ng
RT: 9.051 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:237 Resp: 151109

Ion	Ratio	Lower	Upper
237	100		
235	61.6	43.3	83.3
272	12.7	0.0	32.4

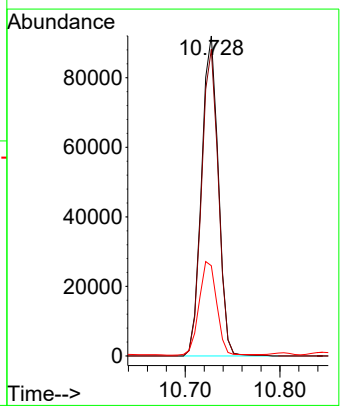


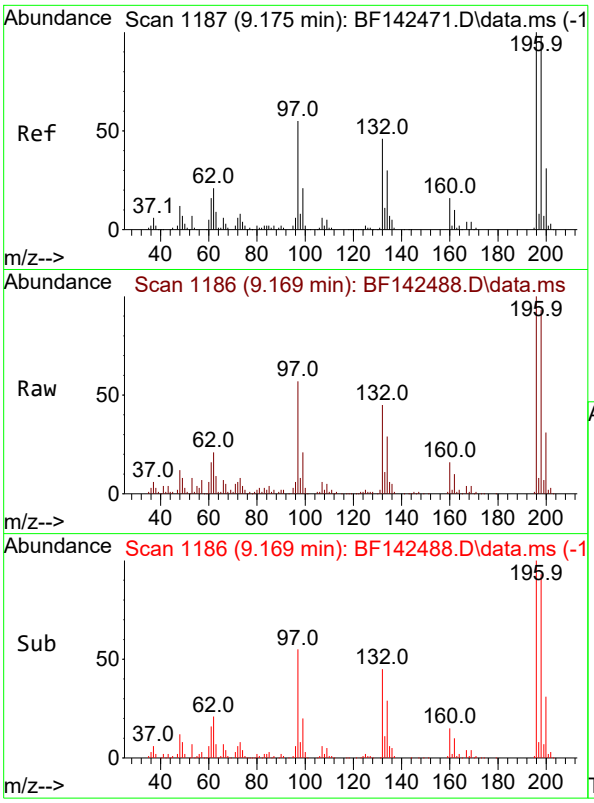


#42
2,4,6-Tribromophenol
Concen: 106.424 ng
RT: 10.728 min Scan# 1451
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:330 Resp: 113033

Ion	Ratio	Lower	Upper
330	100		
332	95.8	77.6	116.4
141	30.7	24.6	36.8



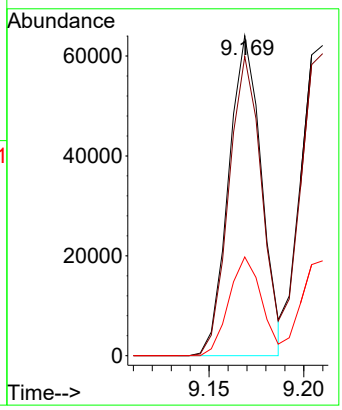


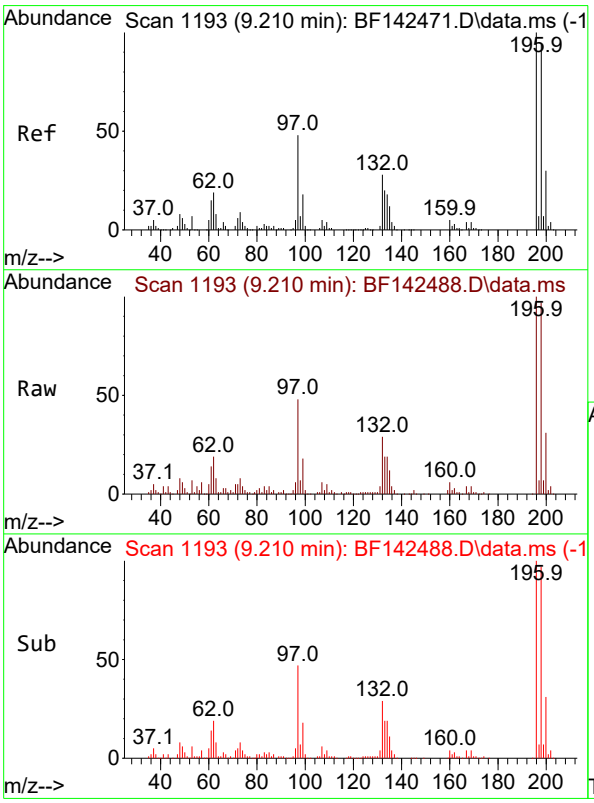
#43
2,4,6-Trichlorophenol
Concen: 41.683 ng
RT: 9.169 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:196 Resp: 77212

Ion	Ratio	Lower	Upper
196	100		
198	93.5	78.8	118.2
200	30.8	24.9	37.3

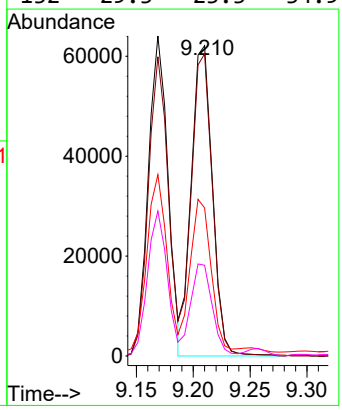


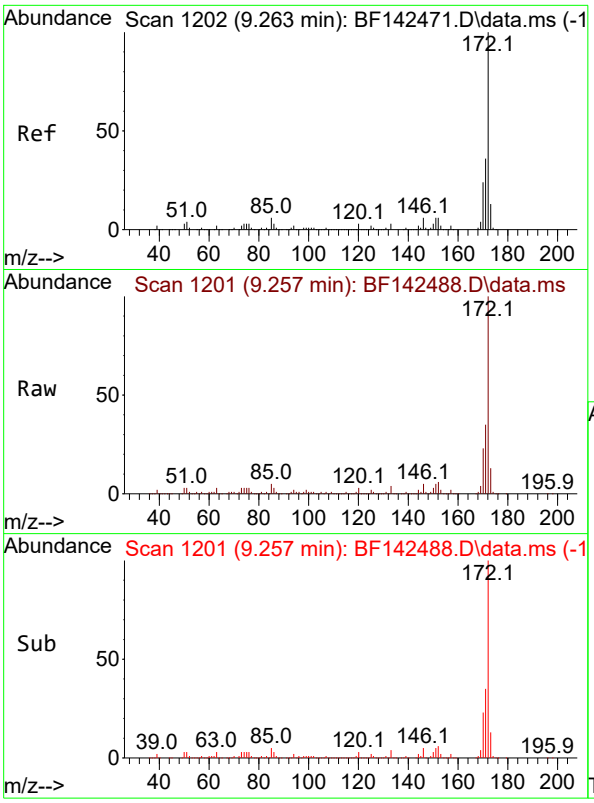


#44
2,4,5-Trichlorophenol
Concen: 41.359 ng
RT: 9.210 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:196 Resp: 80798

Ion	Ratio	Lower	Upper
196	100		
198	97.4	75.5	113.3
97	47.7	39.3	58.9
132	29.3	23.3	34.9



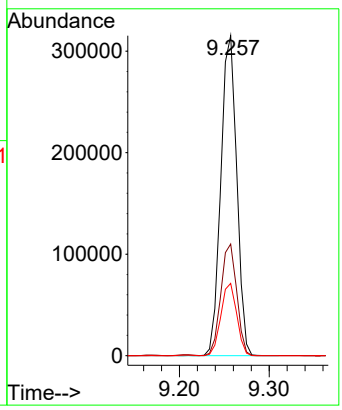


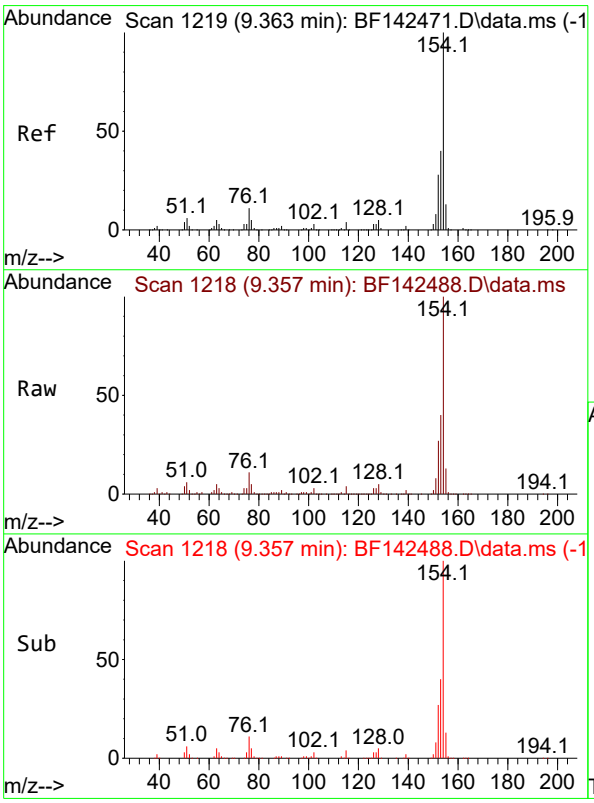
#45
2-Fluorobiphenyl
Concen: 54.441 ng
RT: 9.257 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:172 Resp: 388254

Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.6	42.8
170	22.6	18.9	28.3

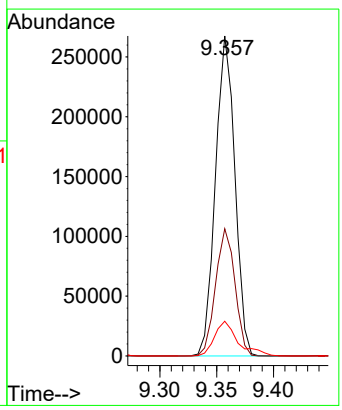


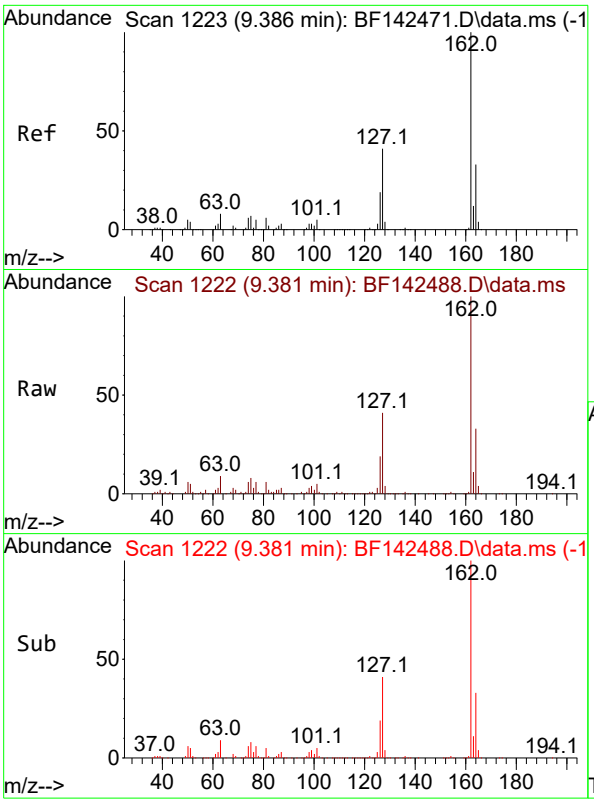


#46
1,1'-Biphenyl
Concen: 42.896 ng
RT: 9.357 min Scan# 1218
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:154 Resp: 318472

Ion	Ratio	Lower	Upper
154	100		
153	39.8	20.4	60.4
76	10.8	0.0	30.8



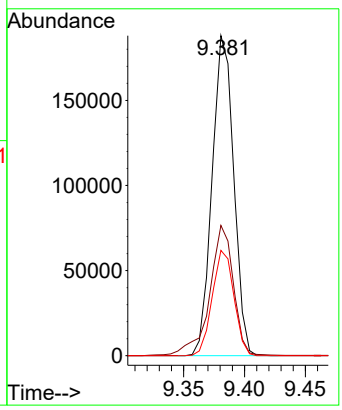


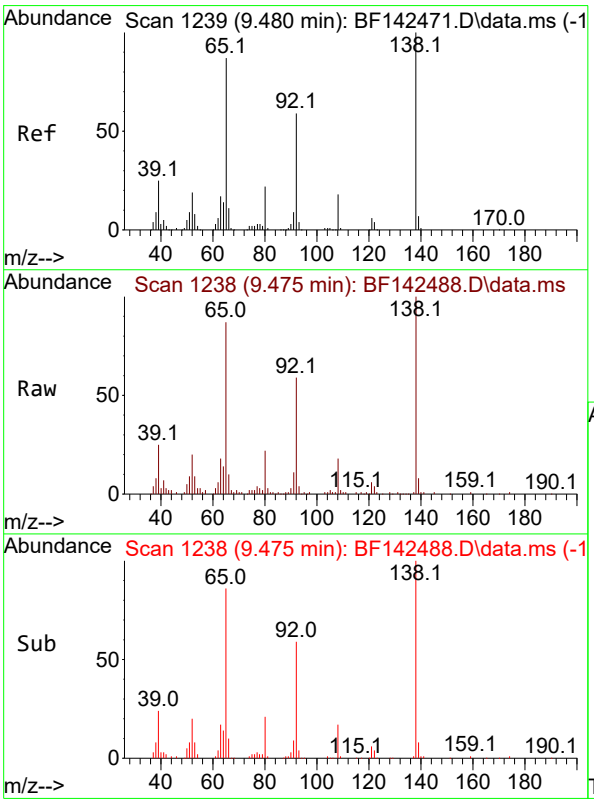
#47
2-Chloronaphthalene
Concen: 42.360 ng
RT: 9.381 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:162 Resp: 232356

Ion	Ratio	Lower	Upper
162	100		
127	40.7	33.5	50.3
164	32.9	26.1	39.1

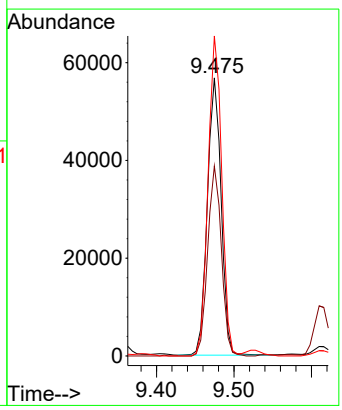


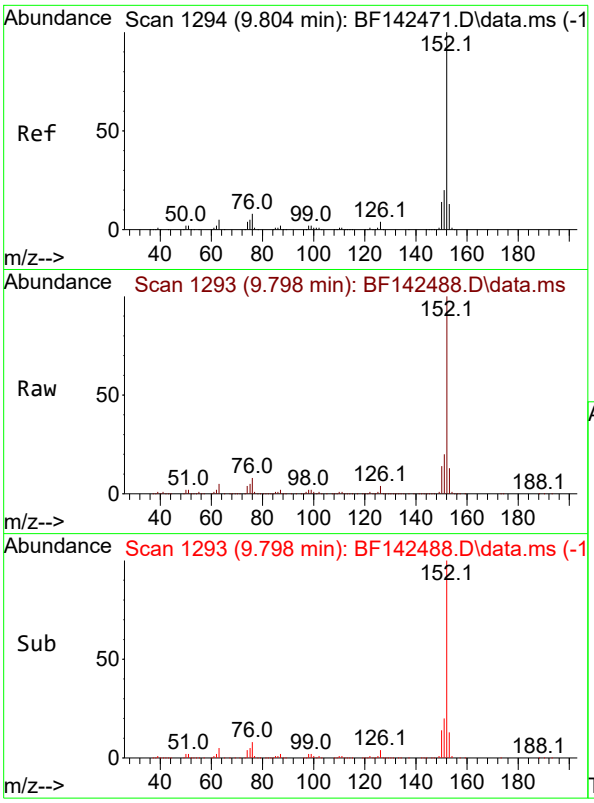


#48
2-Nitroaniline
Concen: 44.071 ng
RT: 9.475 min Scan# 1238
Delta R.T. -0.011 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion: 65 Resp: 69874

Ion	Ratio	Lower	Upper
65	100		
92	68.3	54.4	81.6
138	115.1	91.4	137.2



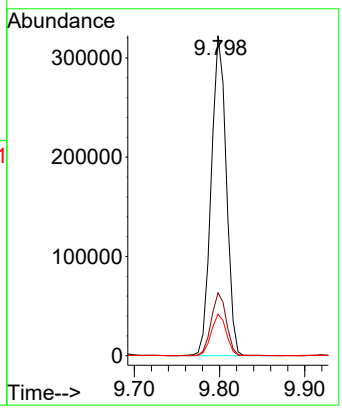


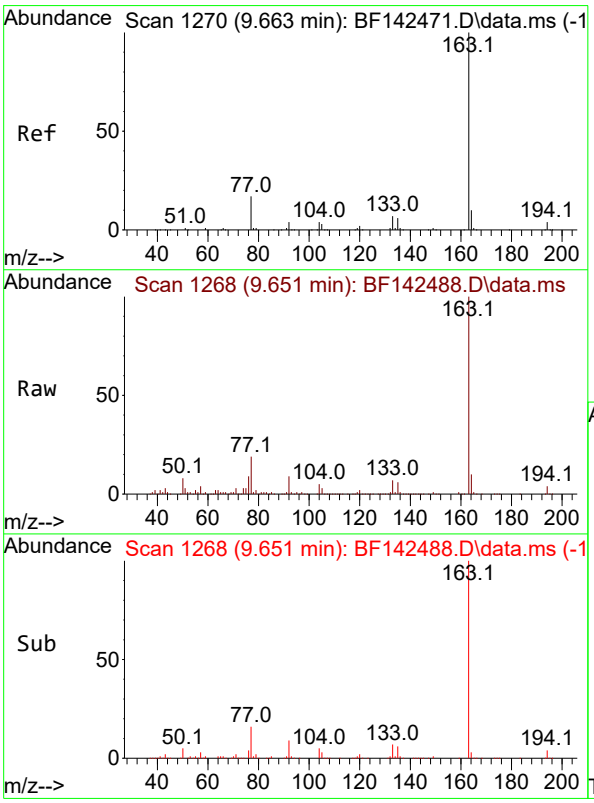
#49
Acenaphthylene
Concen: 42.817 ng
RT: 9.798 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:152 Resp: 396591

Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.8	23.8
153	13.0	10.6	15.8

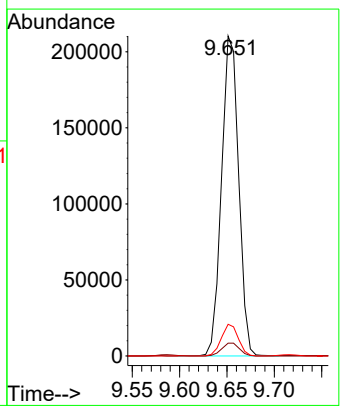


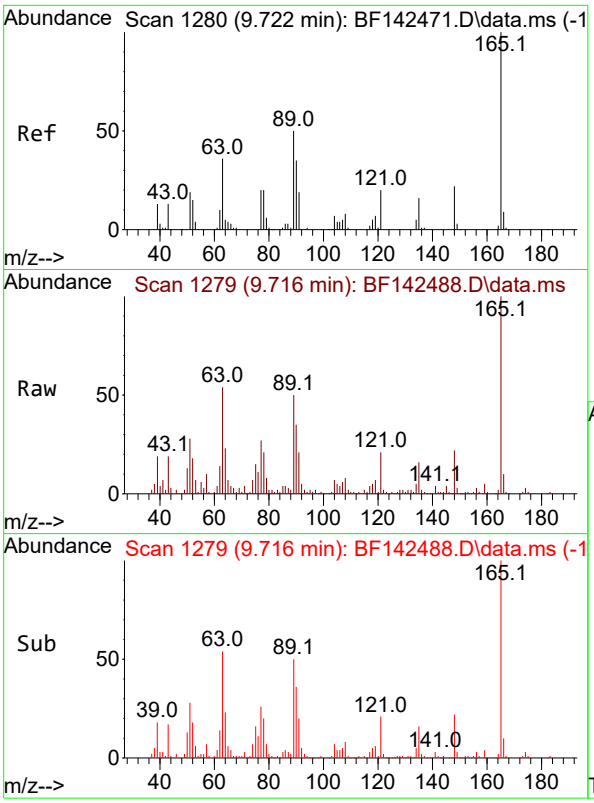


#50
Dimethylphthalate
Concen: 42.027 ng
RT: 9.651 min Scan# 1268
Delta R.T. -0.018 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:163 Resp: 265370

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.3	4.9
164	9.9	8.2	12.4



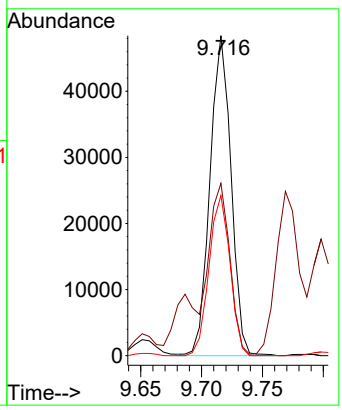


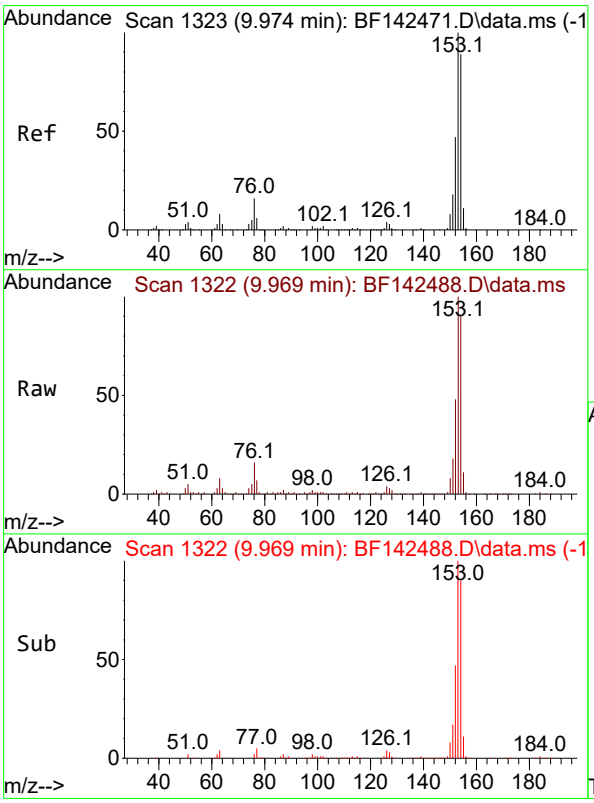
#51
2,6-Dinitrotoluene
Concen: 42.790 ng
RT: 9.716 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:165 Resp: 58315

Ion	Ratio	Lower	Upper
165	100		
63	53.8	42.9	64.3
89	50.1	40.2	60.4

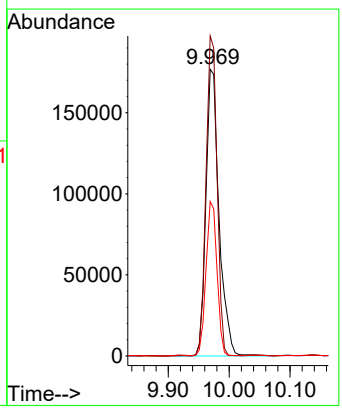


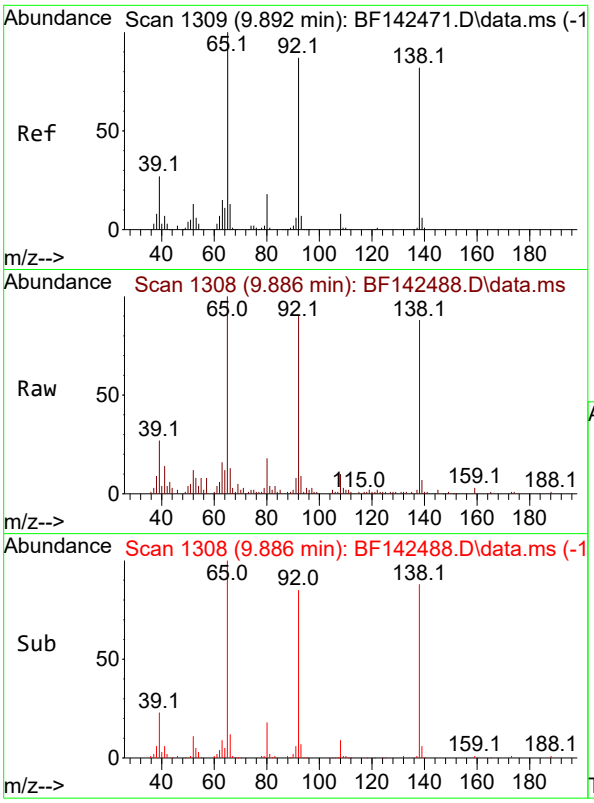


#52
Acenaphthene
Concen: 46.901 ng
RT: 9.969 min Scan# 1322
Delta R.T. -0.011 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:154 Resp: 265263

Ion	Ratio	Lower	Upper
154	100		
153	111.6	90.0	135.0
152	53.8	42.6	64.0



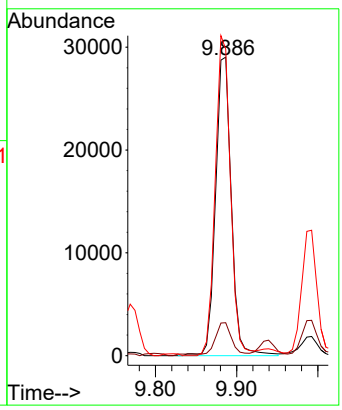


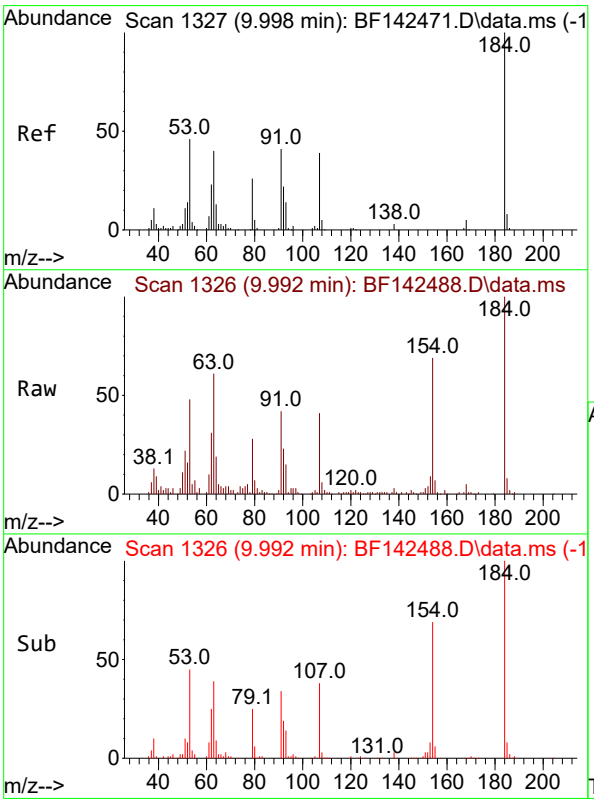
#53
3-Nitroaniline
Concen: 26.253 ng
RT: 9.886 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:138 Resp: 39078

Ion	Ratio	Lower	Upper
138	100		
108	11.0	8.1	12.1
92	102.7	85.2	127.8

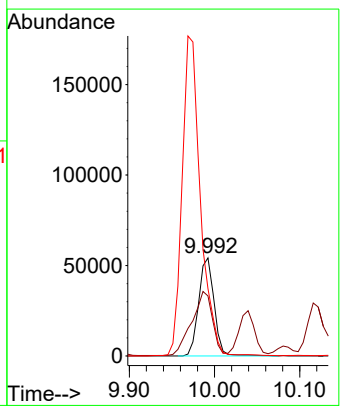


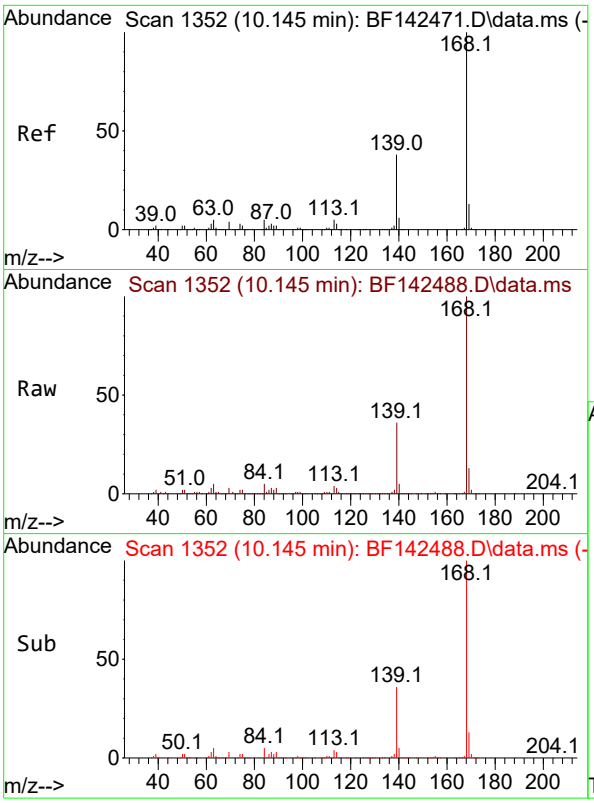


#54
2,4-Dinitrophenol
Concen: 96.781 ng
RT: 9.992 min Scan# 1326
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:184 Resp: 68143

Ion	Ratio	Lower	Upper
184	100		
63	61.2	46.3	69.5
154	68.6	56.8	85.2



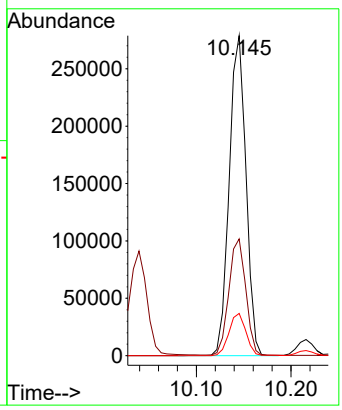


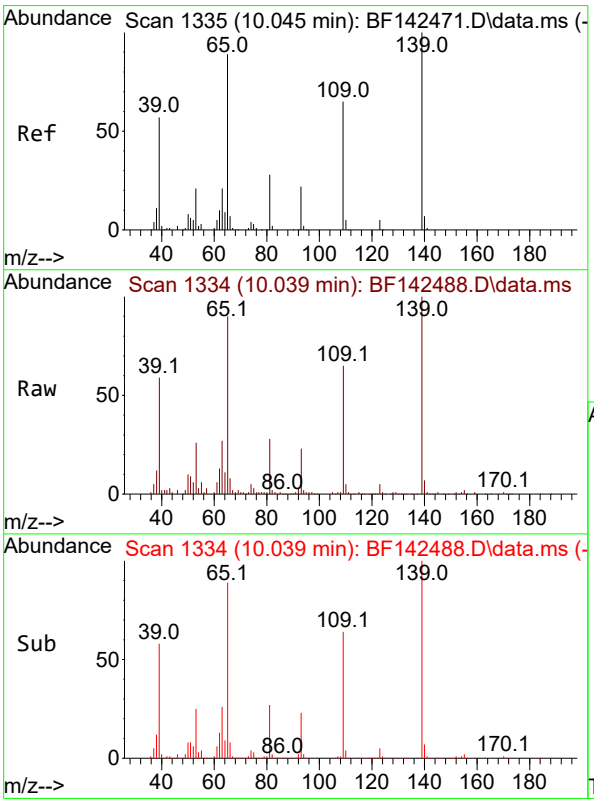
#55
Dibenzofuran
Concen: 42.059 ng
RT: 10.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:168 Resp: 342315

Ion	Ratio	Lower	Upper
168	100		
139	36.5	30.2	45.2
169	13.2	10.7	16.1

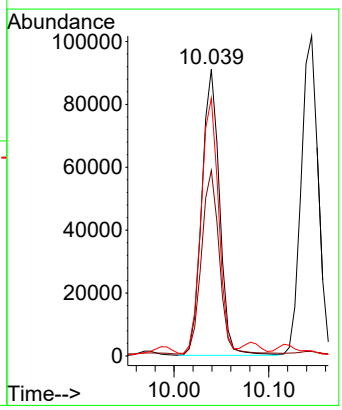


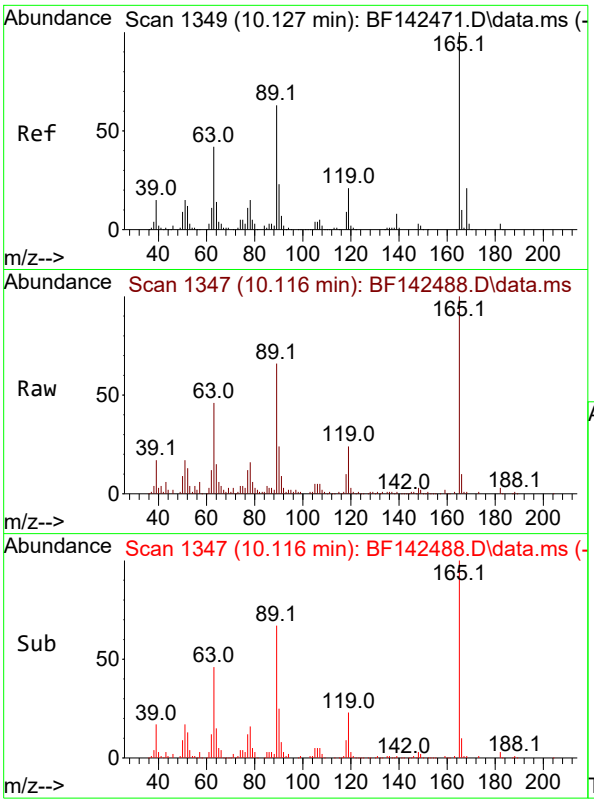


#56
4-Nitrophenol
Concen: 107.039 ng
RT: 10.039 min Scan# 1334
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:139 Resp: 117563

Ion	Ratio	Lower	Upper
139	100		
109	64.7	45.1	85.1
65	89.9	69.7	109.7



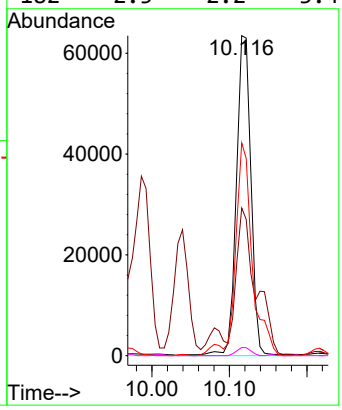


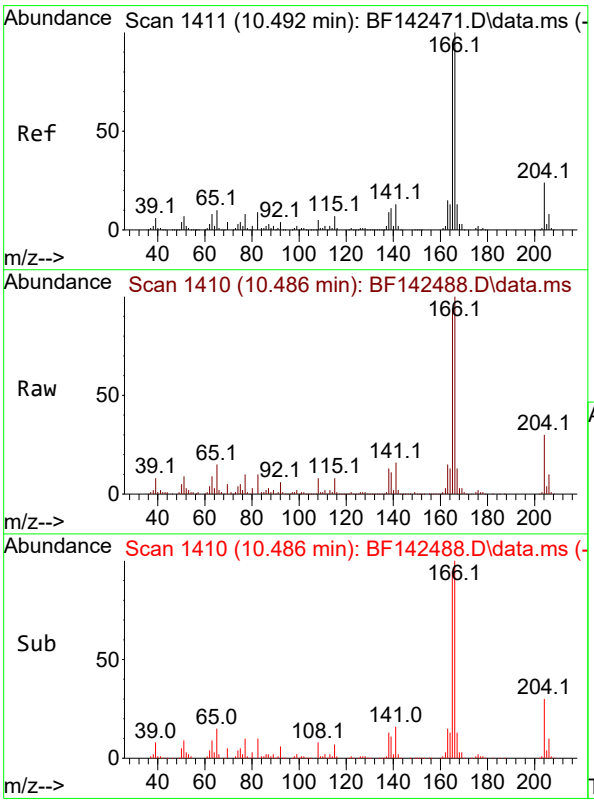
#57
2,4-Dinitrotoluene
Concen: 46.626 ng
RT: 10.116 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:165 Resp: 82986

Ion	Ratio	Lower	Upper
165	100		
63	46.2	33.6	50.4
89	66.5	50.2	75.4
182	2.5	2.2	3.4

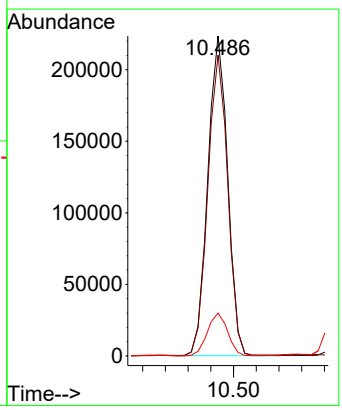


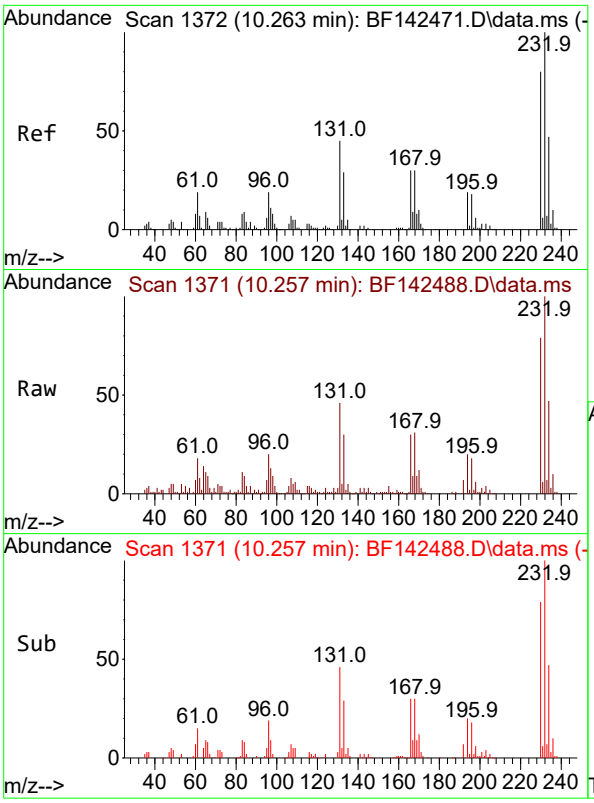


#58
Fluorene
Concen: 43.065 ng
RT: 10.486 min Scan# 1410
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:166 Resp: 270781

Ion	Ratio	Lower	Upper
166	100		
165	94.0	75.8	113.8
167	13.4	10.6	16.0



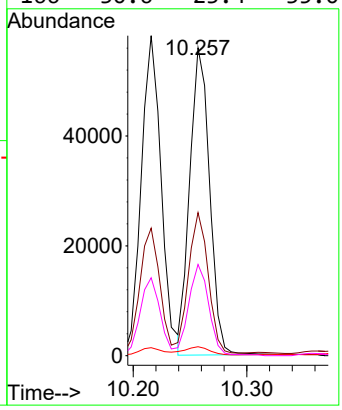


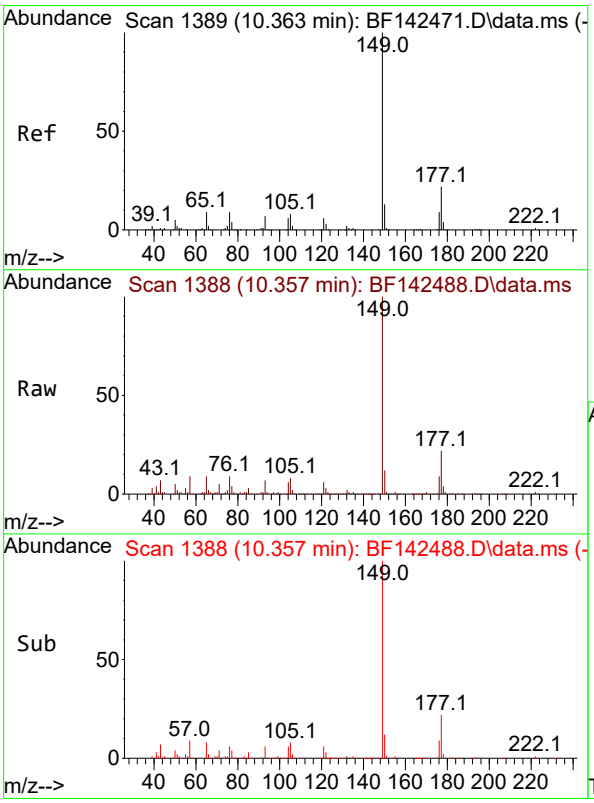
#59
2,3,4,6-Tetrachlorophenol
Concen: 41.641 ng
RT: 10.257 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:232 Resp: 67912

Ion	Ratio	Lower	Upper
232	100		
131	45.8	35.2	52.8
130	4.1	1.7	2.5#
166	30.6	23.4	35.0

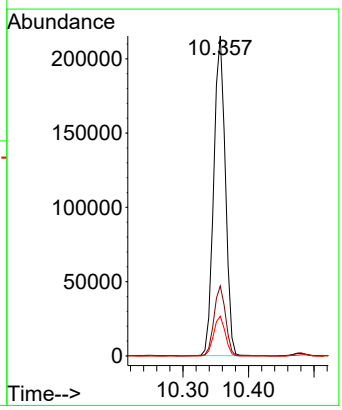


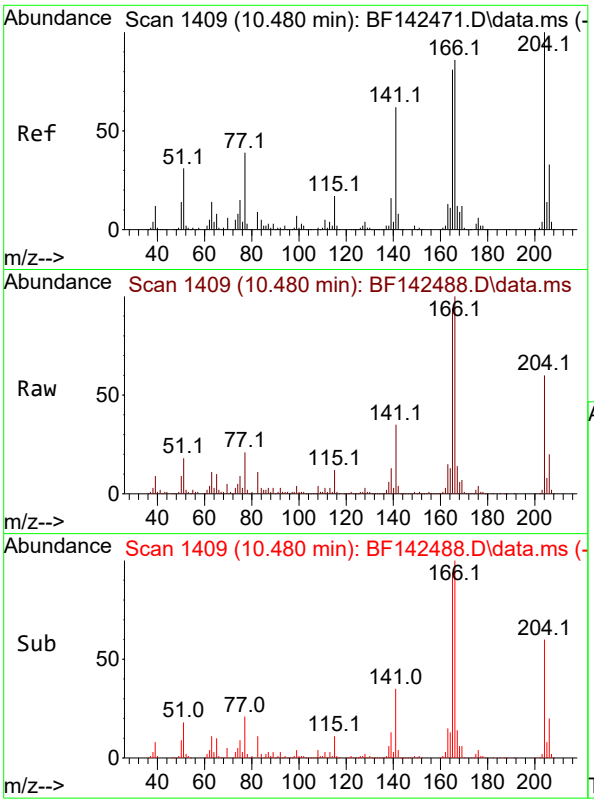


#60
Diethylphthalate
Concen: 42.650 ng
RT: 10.357 min Scan# 1388
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:149 Resp: 263021

Ion	Ratio	Lower	Upper
149	100		
177	21.9	17.6	26.4
150	12.4	10.1	15.1



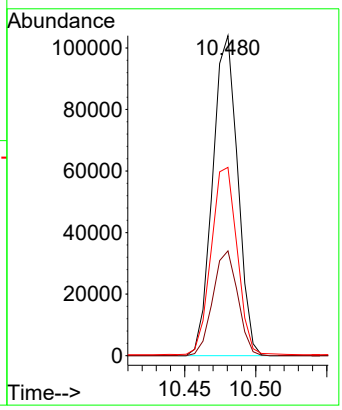


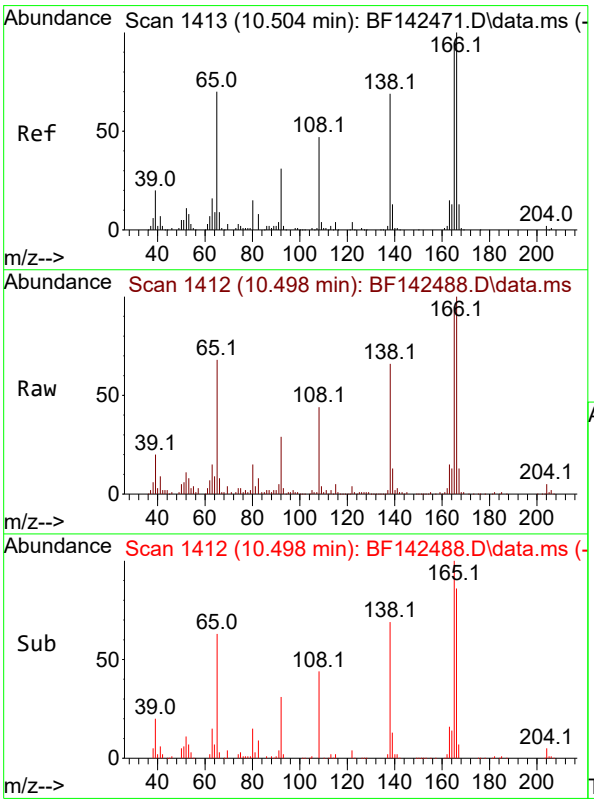
#61
4-Chlorophenyl-phenylether
Concen: 41.312 ng
RT: 10.480 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:204 Resp: 127605

Ion	Ratio	Lower	Upper
204	100		
206	32.8	26.3	39.5
141	58.8	49.5	74.3

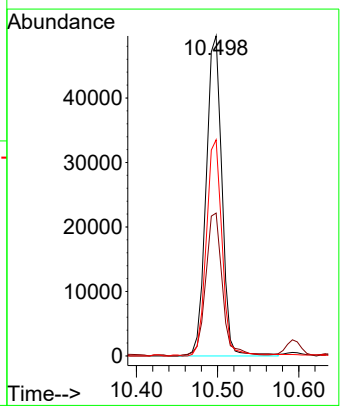


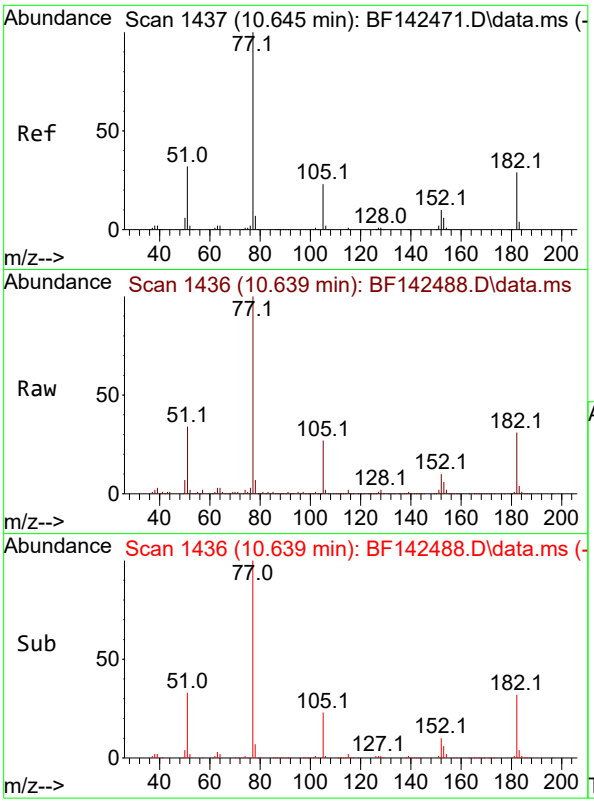


#62
4-Nitroaniline
Concen: 49.607 ng
RT: 10.498 min Scan# 1412
Delta R.T. -0.018 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:138 Resp: 66970

Ion	Ratio	Lower	Upper
138	100		
92	44.7	26.0	66.0
108	67.6	48.4	88.4



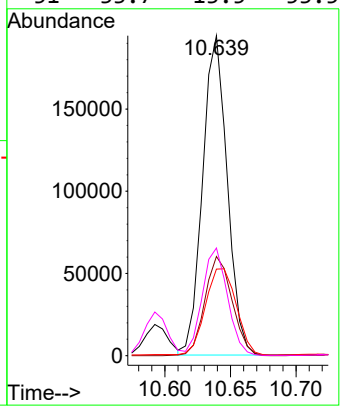


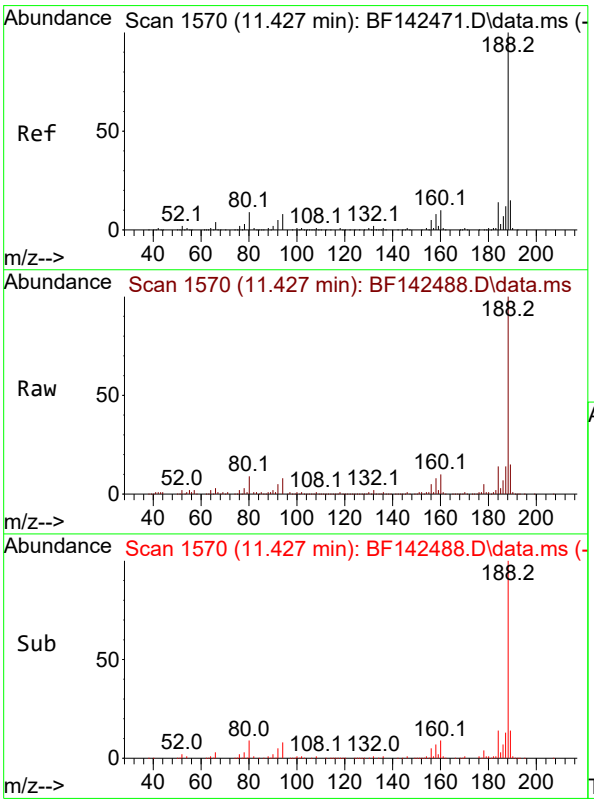
#63
Azobenzene
Concen: 45.814 ng
RT: 10.639 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion: 77 Resp: 253765

Ion	Ratio	Lower	Upper
77	100		
182	31.0	9.0	49.0
105	27.1	2.4	42.4
51	33.7	13.5	53.5

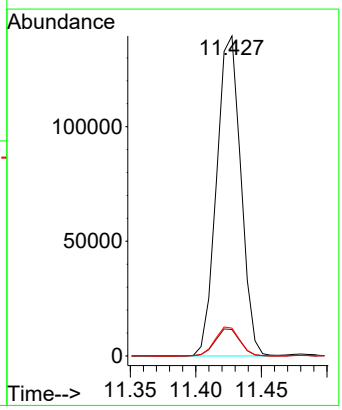


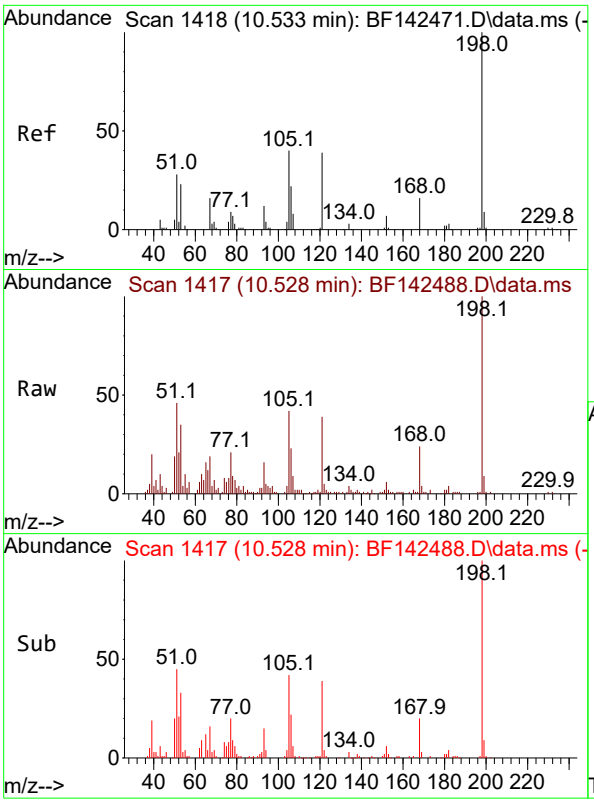


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:188 Resp: 179294

Ion	Ratio	Lower	Upper
188	100		
94	8.2	6.6	10.0
80	8.7	7.4	11.0



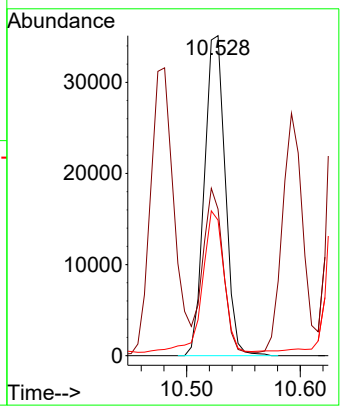


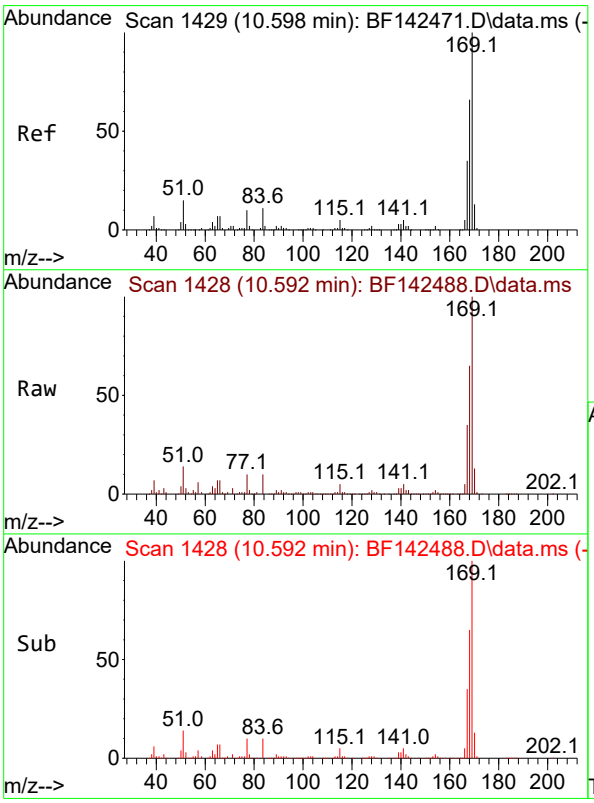
#65
4,6-Dinitro-2-methylphenol
Concen: 44.681 ng
RT: 10.528 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:198 Resp: 44708

Ion	Ratio	Lower	Upper
198	100		
51	45.8	28.3	68.3
105	42.3	21.3	61.3

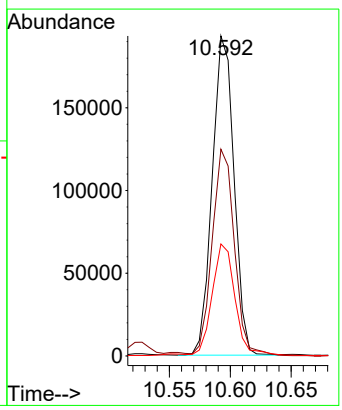


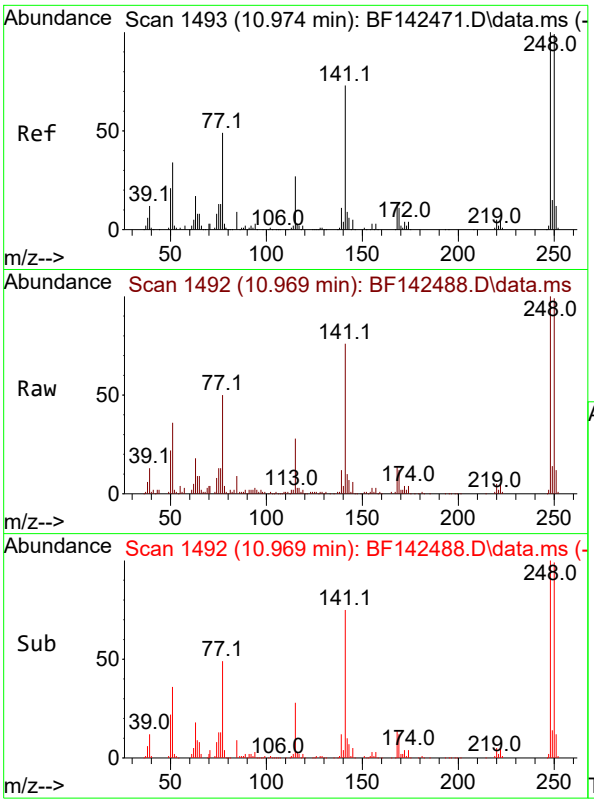


#66
n-Nitrosodiphenylamine
Concen: 39.074 ng
RT: 10.592 min Scan# 1428
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:169 Resp: 239679

Ion	Ratio	Lower	Upper
169	100		
168	64.6	52.7	79.1
167	35.0	28.3	42.5



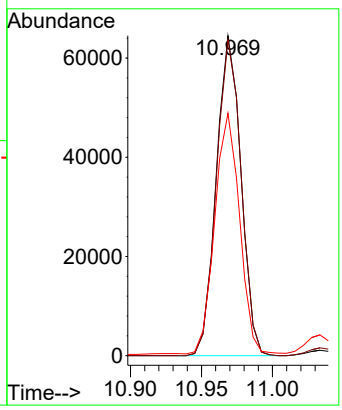


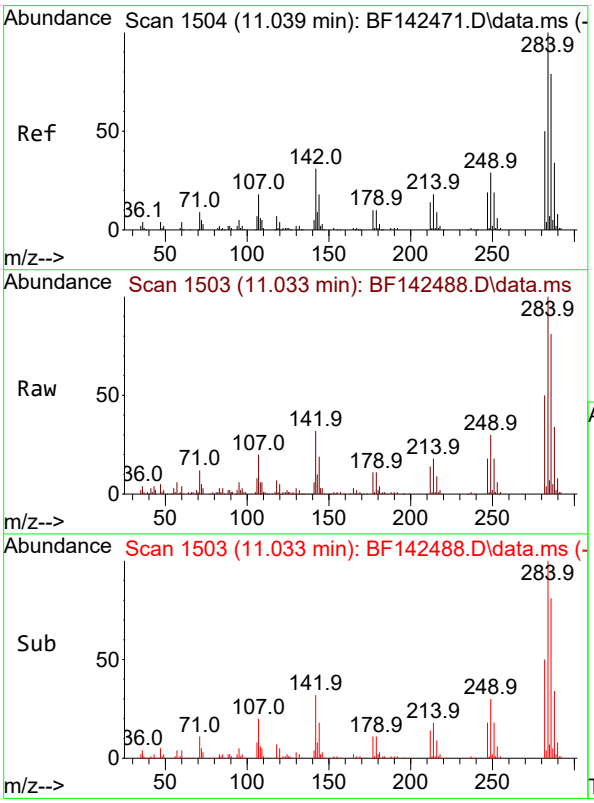
#67
4-Bromophenyl-phenylether
Concen: 36.748 ng
RT: 10.969 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:248 Resp: 77907

Ion	Ratio	Lower	Upper
248	100		
250	98.7	79.0	118.4
141	75.7	58.4	87.6

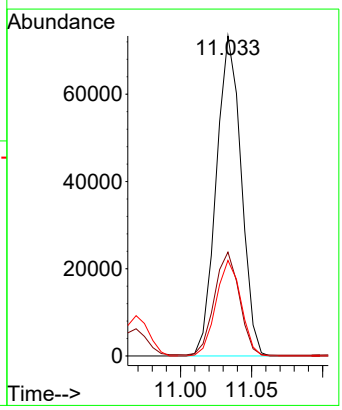


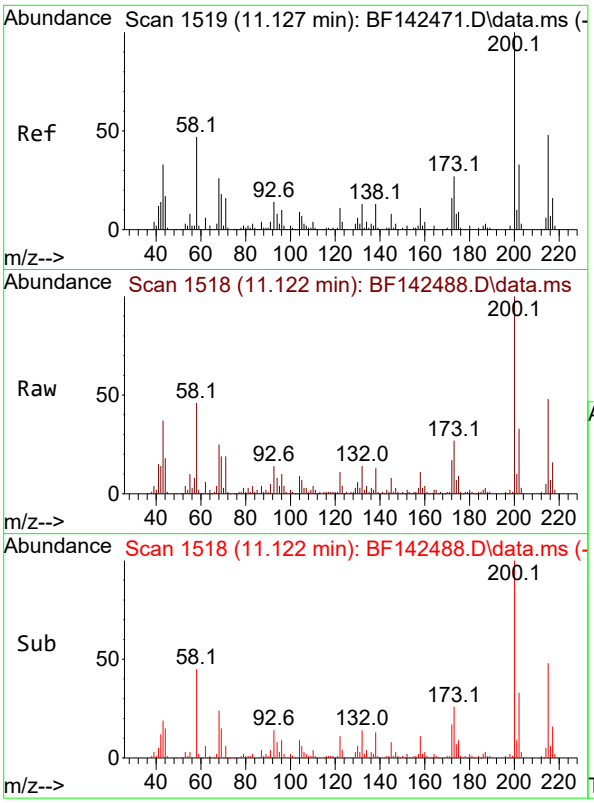


#68
Hexachlorobenzene
Concen: 38.058 ng
RT: 11.033 min Scan# 1503
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:284 Resp: 89239

Ion	Ratio	Lower	Upper
284	100		
142	32.5	24.8	37.2
249	29.8	23.6	35.4



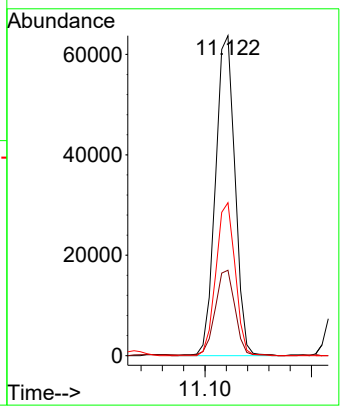


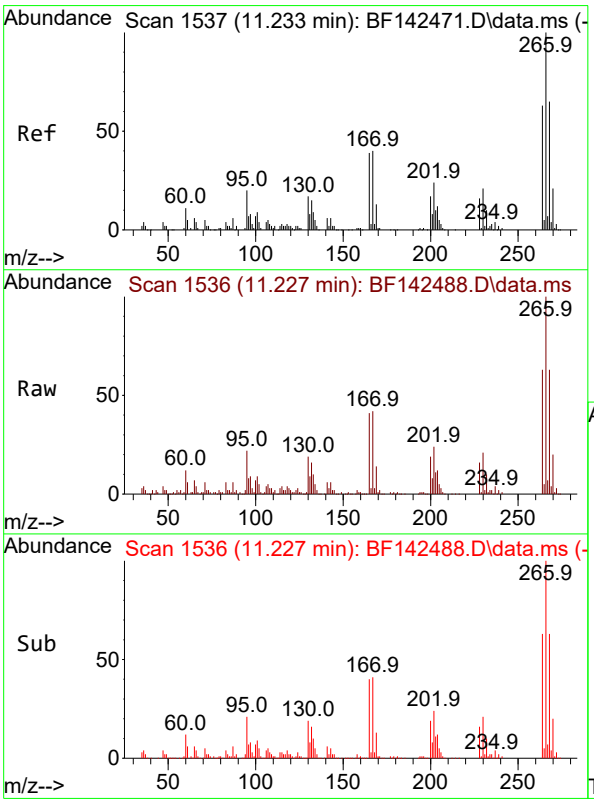
#69
Atrazine
Concen: 49.697 ng
RT: 11.122 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:200 Resp: 80957

Ion	Ratio	Lower	Upper
200	100		
173	26.7	7.4	47.4
215	47.8	28.5	68.5

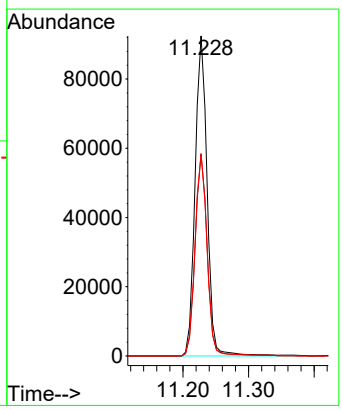


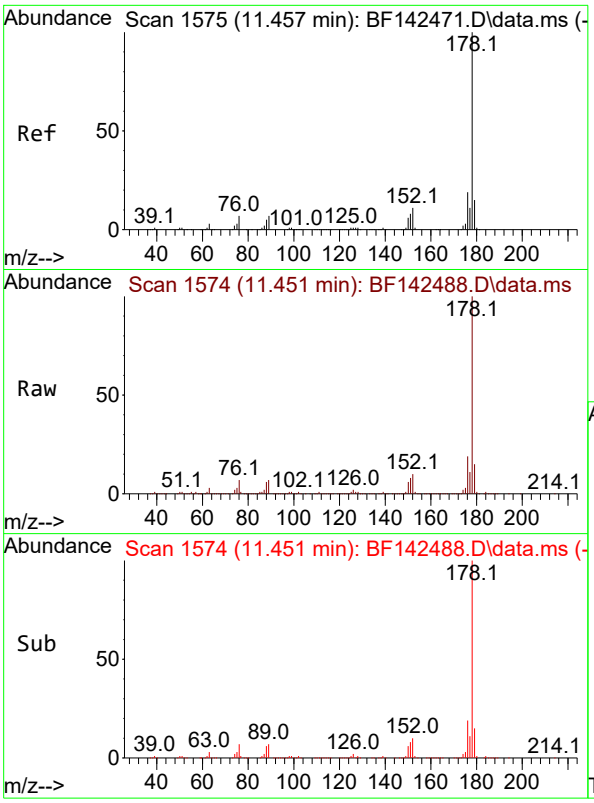


#70
Pentachlorophenol
Concen: 89.217 ng
RT: 11.227 min Scan# 1536
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:266 Resp: 118109

Ion	Ratio	Lower	Upper
266	100		
268	63.1	51.7	77.5
264	63.2	50.4	75.6



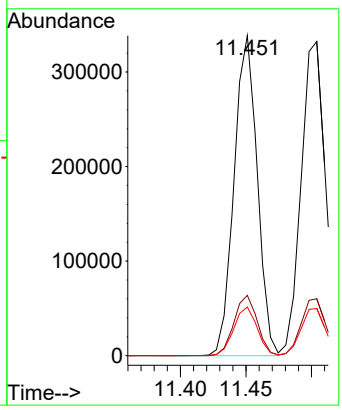


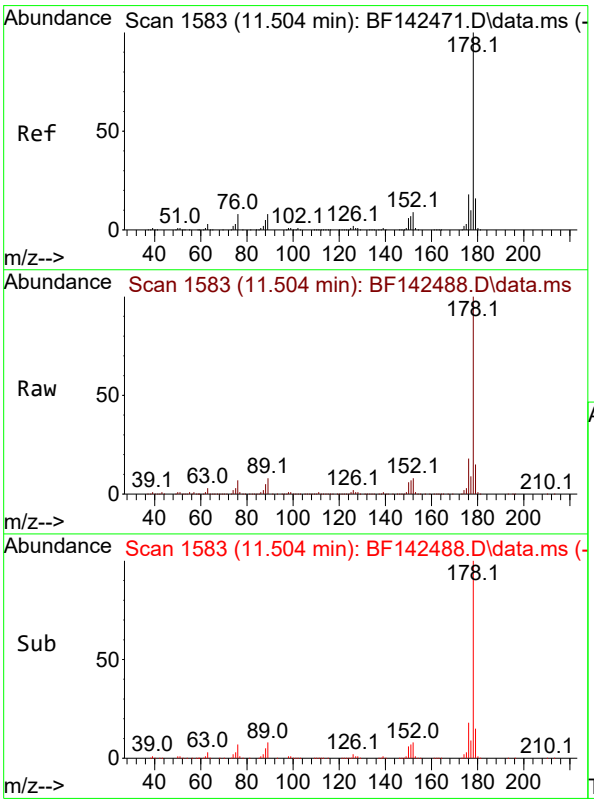
#71
Phenanthrene
Concen: 43.518 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:178 Resp: 416981

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.0
179	15.2	12.3	18.5

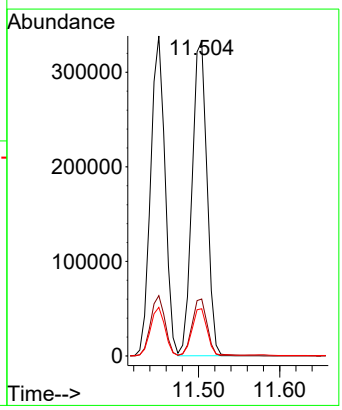


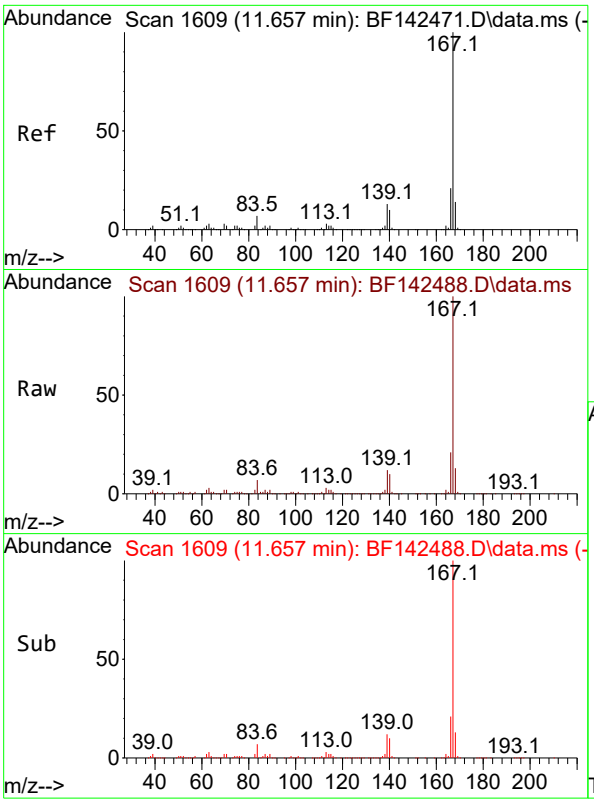


#72
Anthracene
Concen: 43.517 ng
RT: 11.504 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:178 Resp: 425552

Ion	Ratio	Lower	Upper
178	100		
176	18.1	14.6	21.8
179	15.0	12.4	18.6



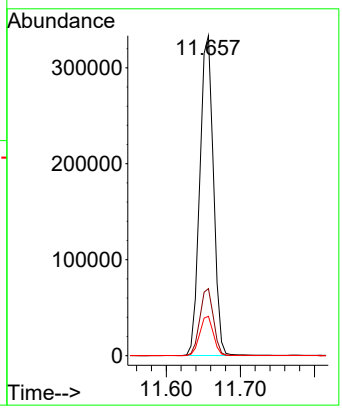


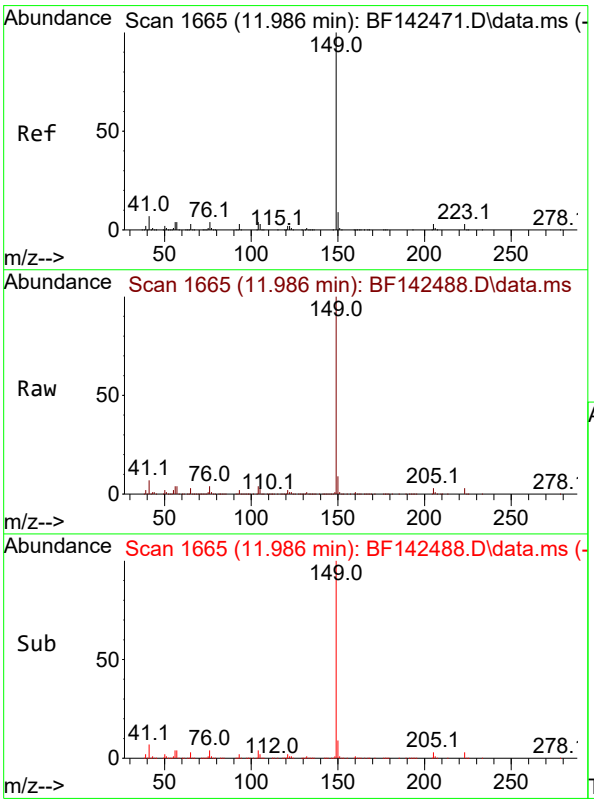
#73
Carbazole
Concen: 50.924 ng
RT: 11.657 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:167 Resp: 425725

Ion	Ratio	Lower	Upper
167	100		
166	20.9	16.9	25.3
139	12.3	10.2	15.4

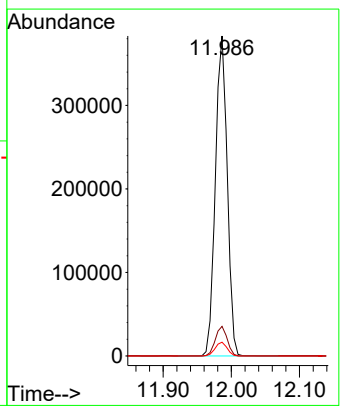


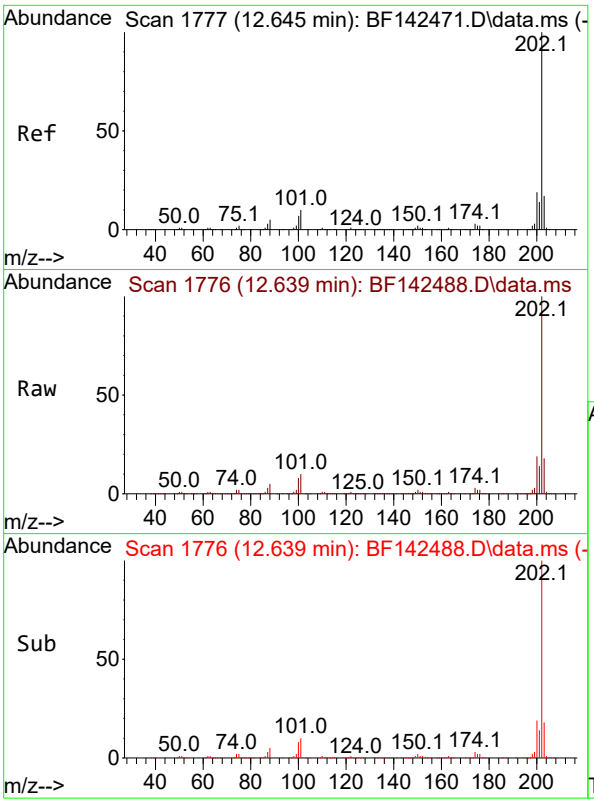


#74
Di-n-butylphthalate
Concen: 50.811 ng
RT: 11.986 min Scan# 1665
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:149 Resp: 464959

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.3	10.9
104	4.3	3.6	5.4



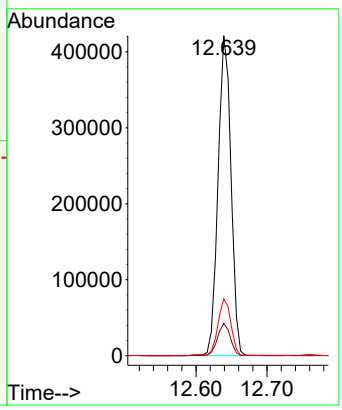


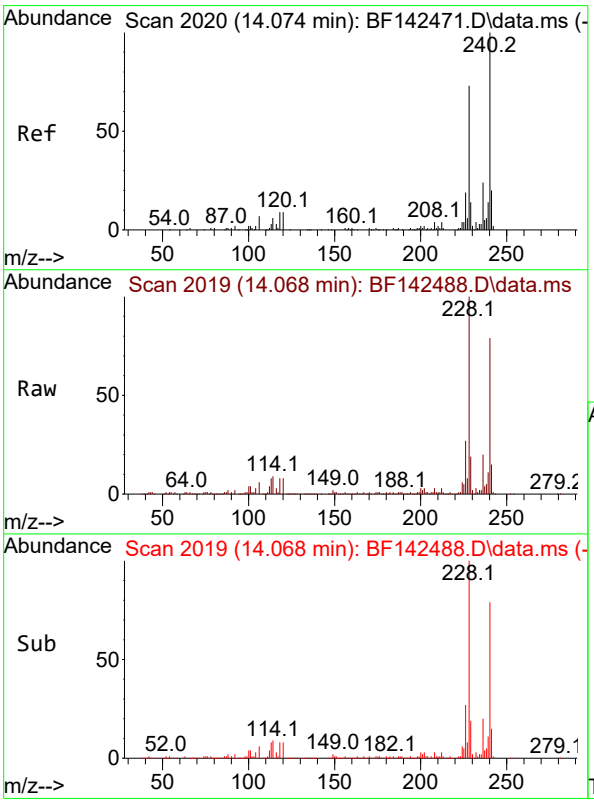
#75
Fluoranthene
Concen: 59.183 ng
RT: 12.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:202 Resp: 529880

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	29.6
203	17.8	0.0	37.2

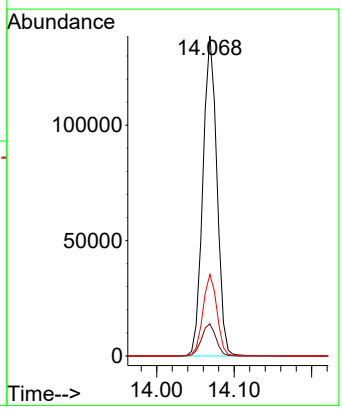


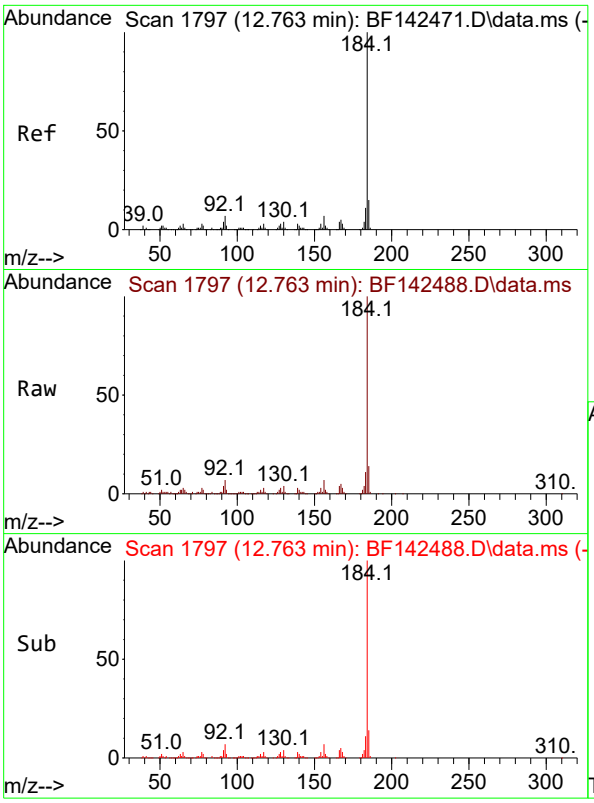


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:240 Resp: 174160

Ion	Ratio	Lower	Upper
240	100		
120	10.0	7.5	11.3
236	25.5	19.6	29.4



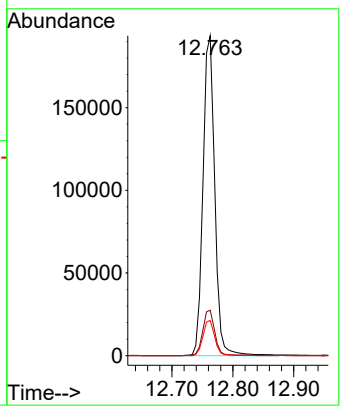


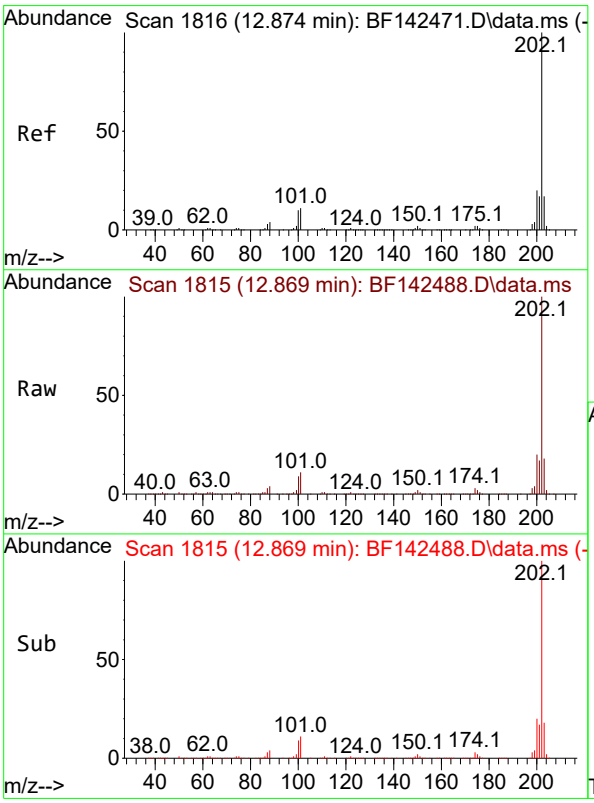
#77
Benzidine
Concen: 40.226 ng
RT: 12.763 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:184 Resp: 260706

Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.6	17.4
183	11.0	9.0	13.4

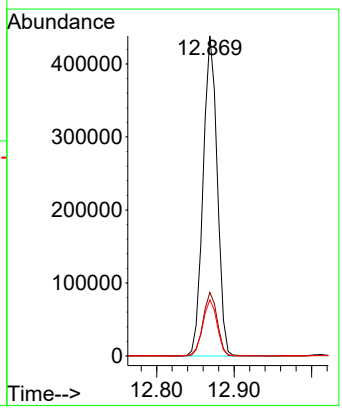


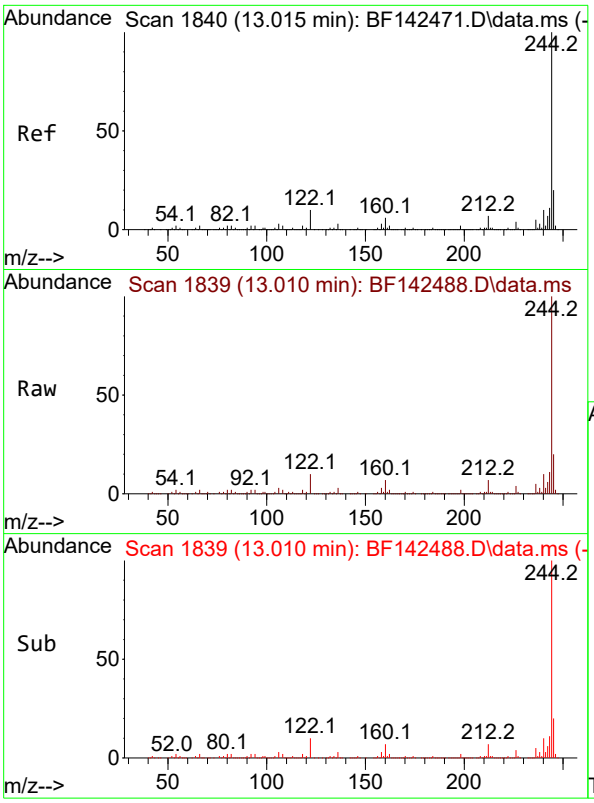


#78
Pyrene
Concen: 34.165 ng
RT: 12.869 min Scan# 1815
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:202 Resp: 555060

Ion	Ratio	Lower	Upper
202	100		
200	19.8	16.1	24.1
203	17.6	13.9	20.9



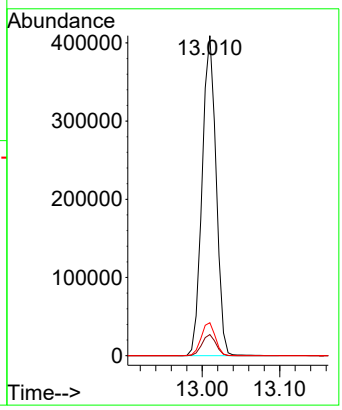


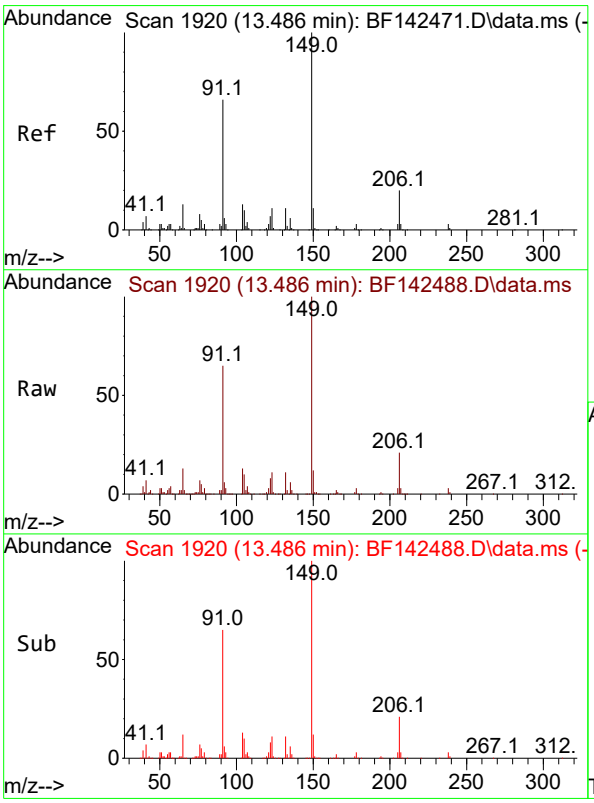
#79
Terphenyl-d14
Concen: 40.188 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:244 Resp: 512173

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.3	7.9
122	10.3	8.2	12.2

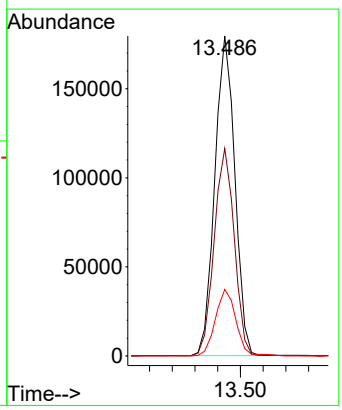


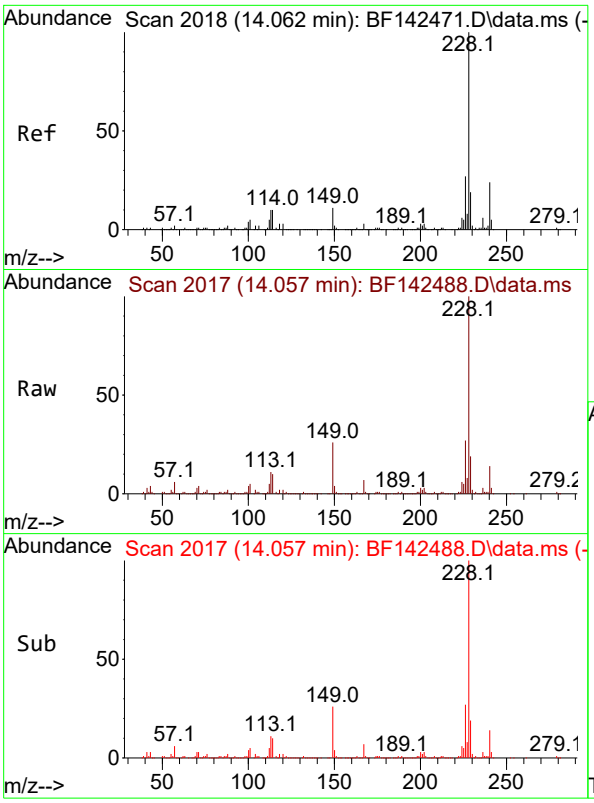


#80
Butylbenzylphthalate
Concen: 49.000 ng
RT: 13.486 min Scan# 1920
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:149 Resp: 219971

Ion	Ratio	Lower	Upper
149	100		
91	64.8	52.9	79.3
206	20.8	16.2	24.2



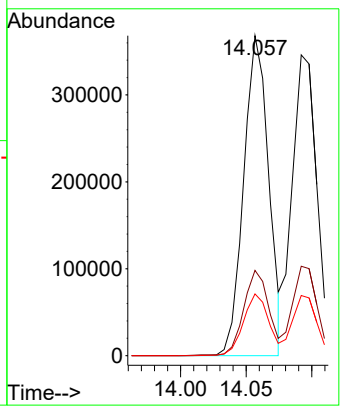


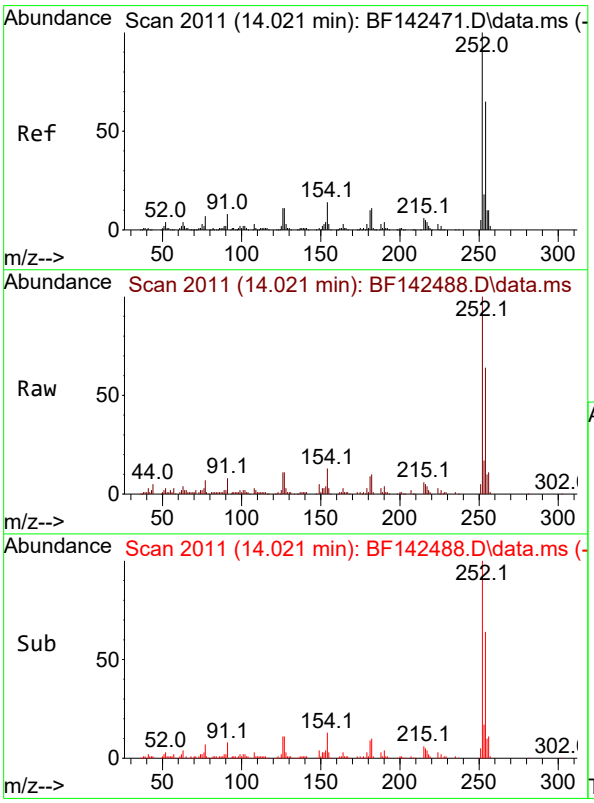
#81
Benzo(a)anthracene
Concen: 41.968 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:228 Resp: 488067

Ion	Ratio	Lower	Upper
228	100		
226	26.7	21.2	31.8
229	19.3	15.5	23.3

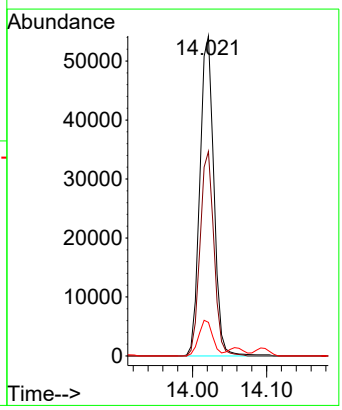


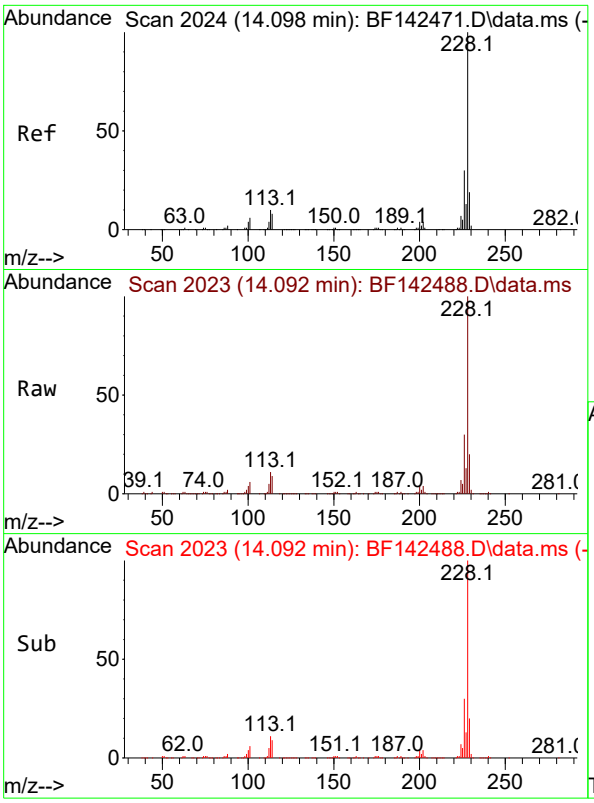


#82
3,3'-Dichlorobenzidine
Concen: 20.183 ng
RT: 14.021 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:252 Resp: 71192

Ion	Ratio	Lower	Upper
252	100		
254	63.9	52.0	78.0
126	10.5	8.9	13.3



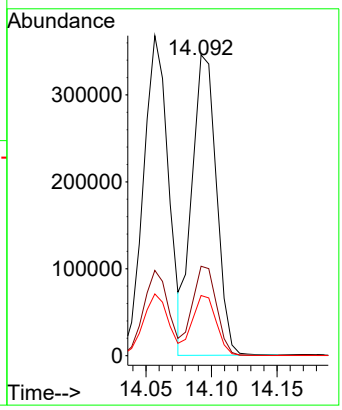


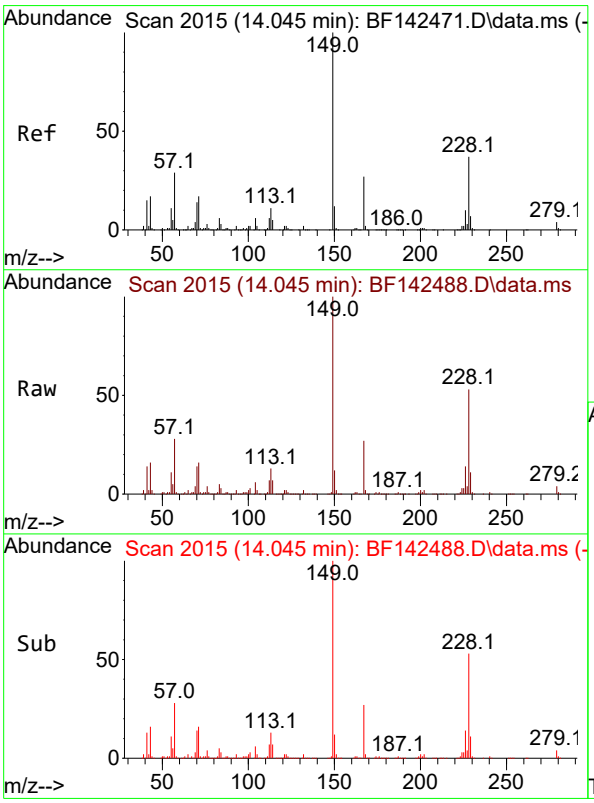
#83
Chrysene
Concen: 42.984 ng
RT: 14.092 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:228 Resp: 449179

Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.8	35.6
229	20.0	15.4	23.2

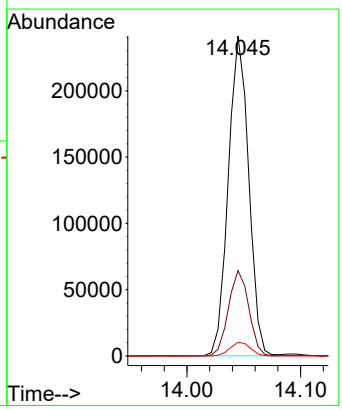


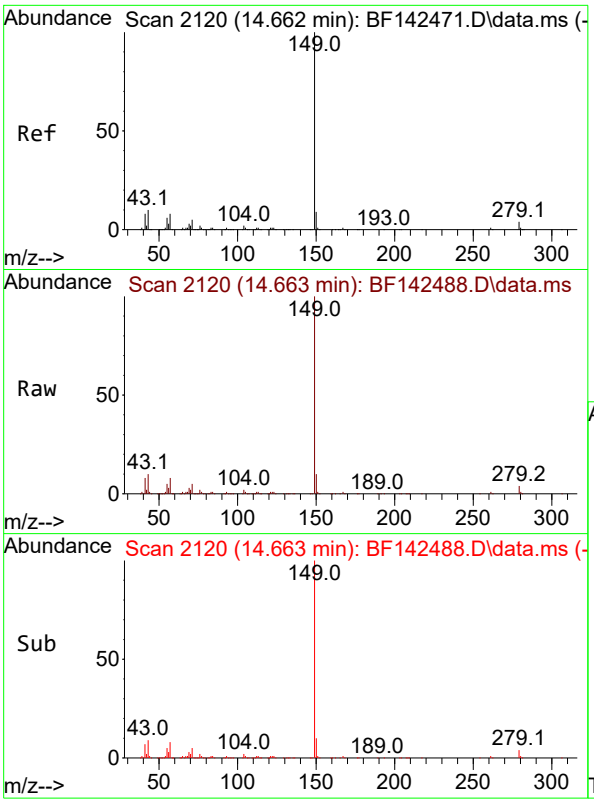


#84
Bis(2-ethylhexyl)phthalate
Concen: 52.268 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:149 Resp: 300378

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.5	32.3
279	4.3	3.2	4.8



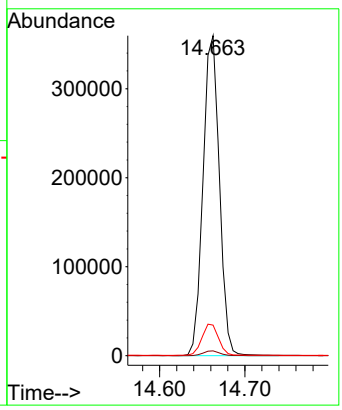


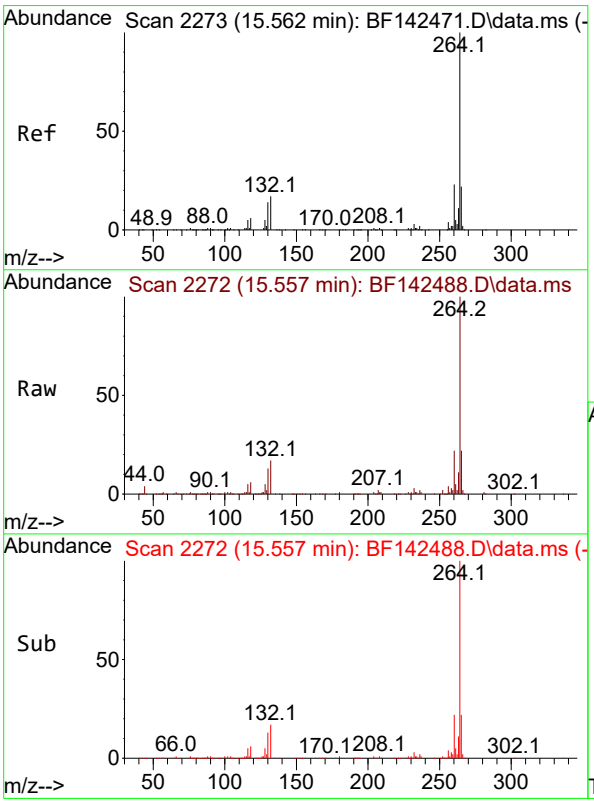
#85
Di-n-octyl phthalate
Concen: 42.717 ng
RT: 14.663 min Scan# 21
Delta R.T. -0.005 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:149 Resp: 480004

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.0	7.9	11.9

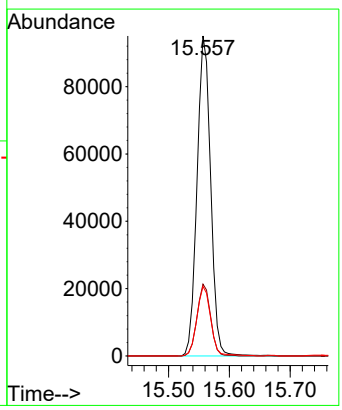


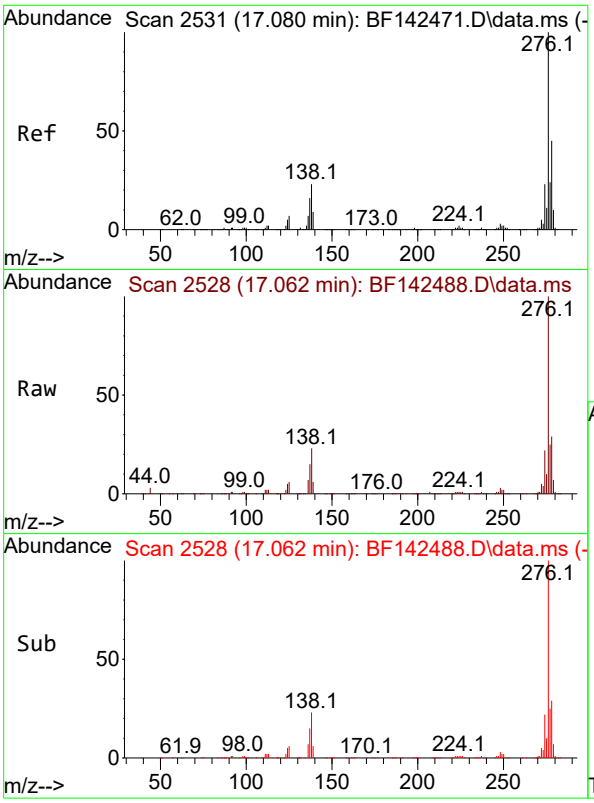


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:264 Resp: 147670

Ion	Ratio	Lower	Upper
264	100		
260	22.5	18.6	28.0
265	21.7	17.7	26.5



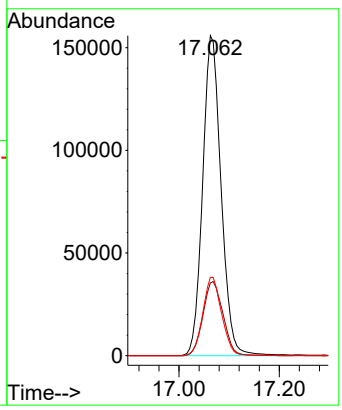


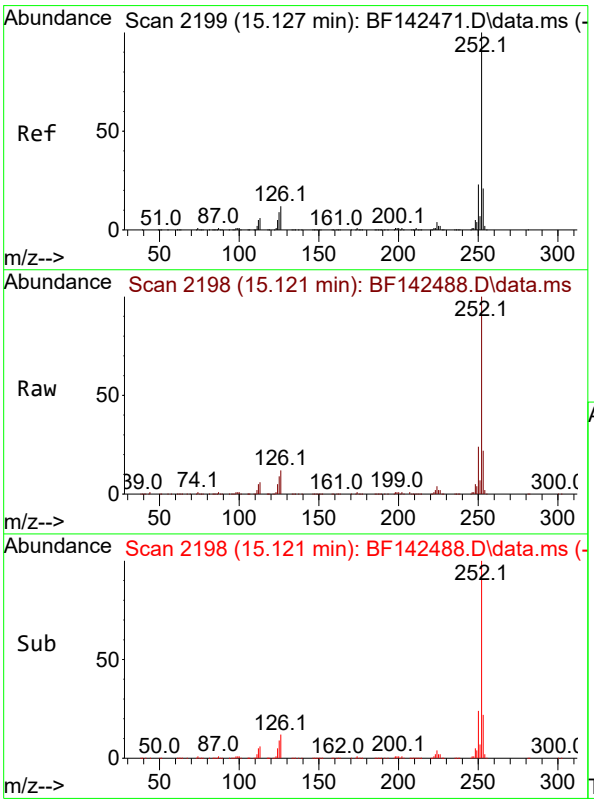
#87
Indeno(1,2,3-cd)pyrene
Concen: 35.852 ng
RT: 17.062 min Scan# 2
Delta R.T. -0.029 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:276 Resp: 397462

Ion	Ratio	Lower	Upper
276	100		
138	25.1	19.9	29.9
277	25.2	20.2	30.2

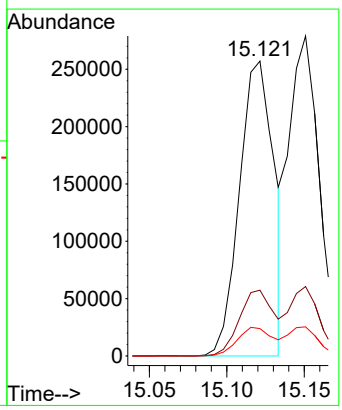


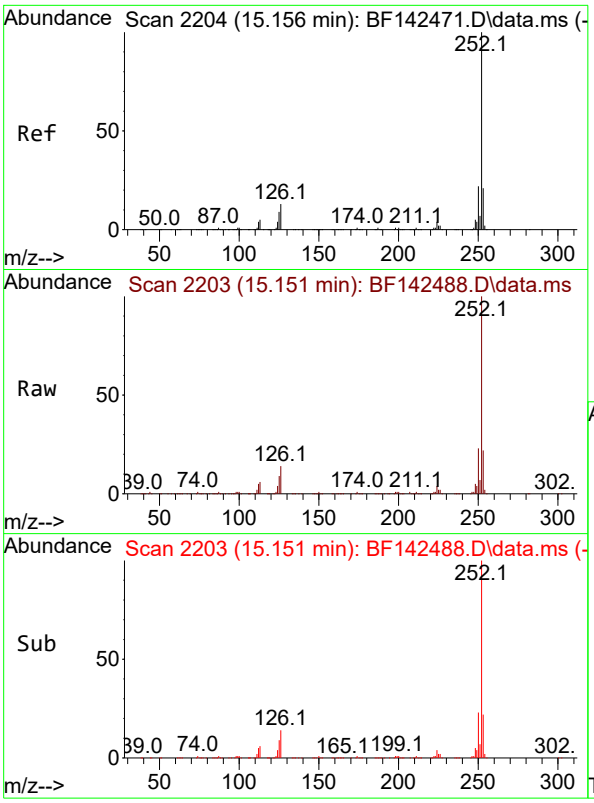


#88
Benzo(b)fluoranthene
Concen: 45.547 ng
RT: 15.121 min Scan# 2198
Delta R.T. -0.006 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:252 Resp: 398076

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.0	25.4
125	9.3	7.4	11.0



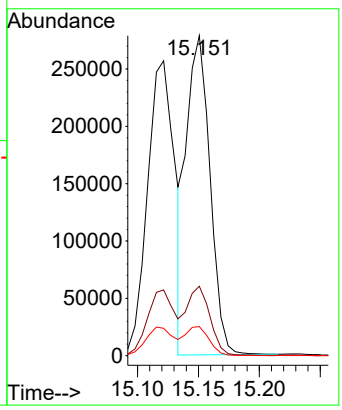


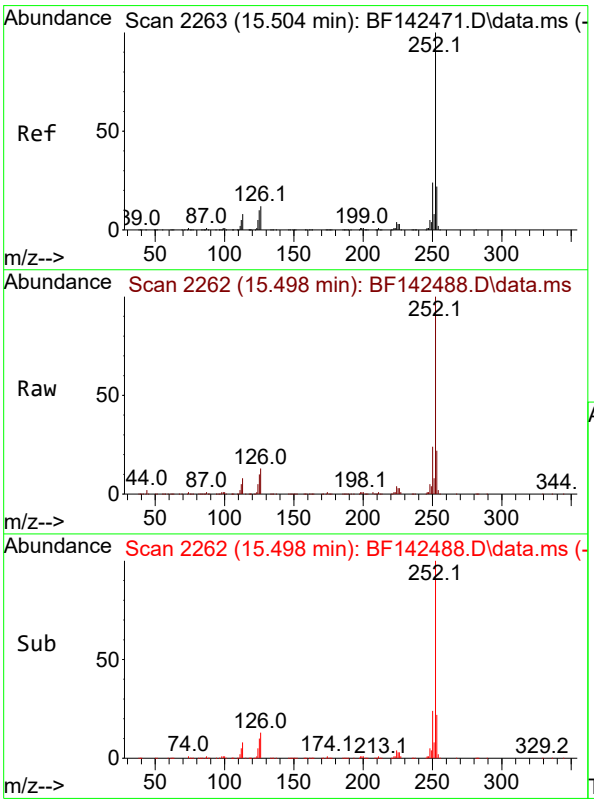
#89
Benzo(k)fluoranthene
Concen: 45.852 ng
RT: 15.151 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:252 Resp: 375338

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.0	25.4
125	9.1	7.3	10.9

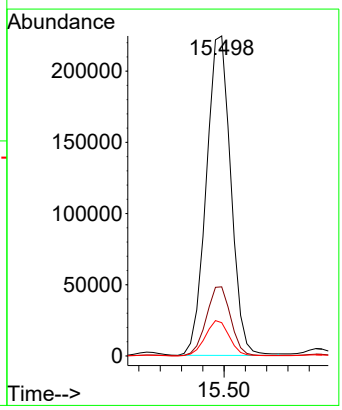


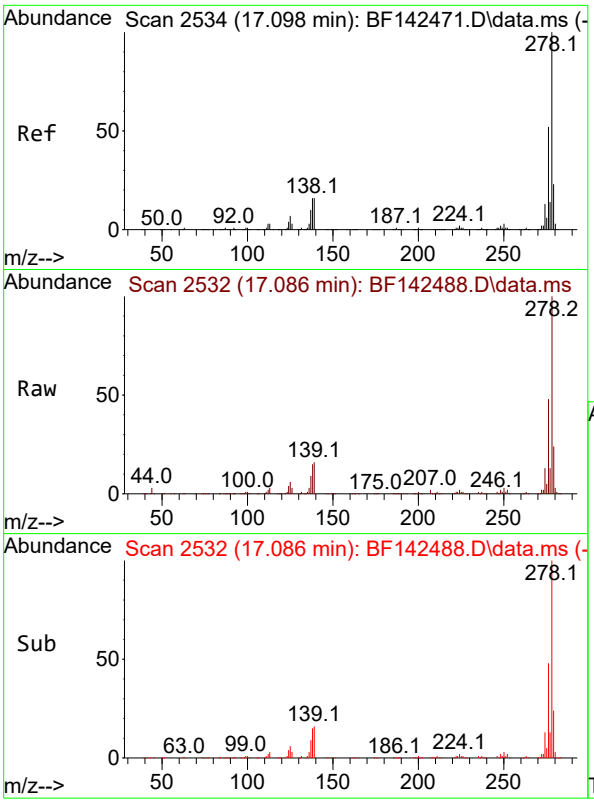


#90
Benzo(a)pyrene
Concen: 43.537 ng
RT: 15.498 min Scan# 2262
Delta R.T. -0.012 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:252 Resp: 358666

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.4	26.0
125	10.4	7.9	11.9



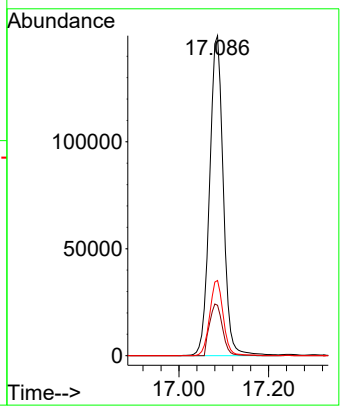


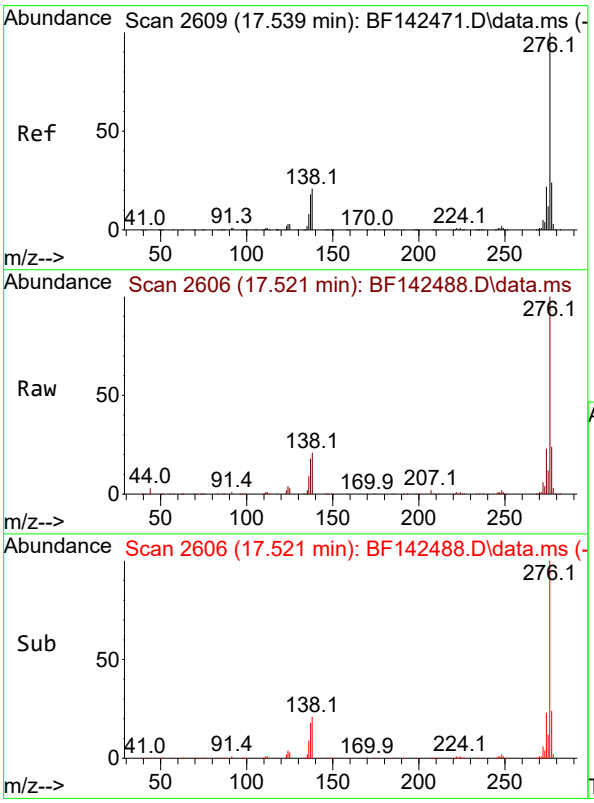
#91
Dibenzo(a,h)anthracene
Concen: 35.415 ng
RT: 17.086 min Scan# 2
Delta R.T. -0.029 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Tgt Ion:278 Resp: 318429

Ion	Ratio	Lower	Upper
278	100		
139	15.8	12.8	19.2
279	23.5	18.6	28.0

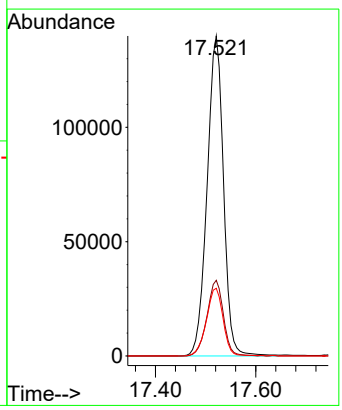




#92
Benzo(g,h,i)perylene
Concen: 35.381 ng
RT: 17.521 min Scan# 2606
Delta R.T. -0.035 min
Lab File: BF142488.D
Acq: 21 May 2025 15:34

Tgt Ion:276 Resp: 318190

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.2	28.8
138	21.2	16.8	25.2



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Manual Integration Report

Sequence:	bf052025	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BF142469.D	Benzoic acid	Rahul	5/21/2025 2:07:30 PM	Jagrut	5/21/2025 4:43:55 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BF052125	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB168083BS	BF142480.D	4-Chloroaniline	Rahul	5/22/2025 1:18:41 PM	Jagrut	5/22/2025 2:52:55 PM	Peak Integrated by Software
PB168083BS	BF142480.D	Benzoic acid	Rahul	5/22/2025 1:18:41 PM	Jagrut	5/22/2025 2:52:55 PM	Peak Integrated by Software
PB168083BS	BF142480.D	Caprolactam	Rahul	5/22/2025 1:18:41 PM	Jagrut	5/22/2025 2:52:55 PM	Peak Integrated by Software
Q2075-04MS	BF142487.D	Benzoic acid	Rahul	5/22/2025 1:18:43 PM	Jagrut	5/22/2025 2:52:58 PM	Peak Integrated by Software
Q2075-04MS	BF142487.D	Caprolactam	Rahul	5/22/2025 1:18:43 PM	Jagrut	5/22/2025 2:52:58 PM	Peak Integrated by Software
Q2075-05MSD	BF142488.D	Benzoic acid	Rahul	5/22/2025 1:18:48 PM	Jagrut	5/22/2025 2:53:01 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bf052225	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2074-01	BF142513.D	Benzo(a)anthracene	Rahul	5/23/2025 11:46:30 AM	Jagrut	5/23/2025 5:05:37 PM	Peak Integrated by Software
Q2074-01	BF142513.D	Benzo(b)fluoranthene	Rahul	5/23/2025 11:46:30 AM	Jagrut	5/23/2025 5:05:37 PM	Peak Integrated by Software
Q2074-01	BF142513.D	Benzo(k)fluoranthene	Rahul	5/23/2025 11:46:30 AM	Jagrut	5/23/2025 5:05:37 PM	Peak Integrated by Software
Q2074-07	BF142515.D	Benzo(a)anthracene	Rahul	5/23/2025 11:46:33 AM	Jagrut	5/23/2025 5:05:40 PM	Peak Integrated by Software
Q2074-07	BF142515.D	Benzo(b)fluoranthene	Rahul	5/23/2025 11:46:33 AM	Jagrut	5/23/2025 5:05:40 PM	Peak Integrated by Software
Q2074-07	BF142515.D	Benzo(k)fluoranthene	Rahul	5/23/2025 11:46:33 AM	Jagrut	5/23/2025 5:05:40 PM	Peak Integrated by Software
Q2074-07	BF142515.D	Chrysene	Rahul	5/23/2025 11:46:33 AM	Jagrut	5/23/2025 5:05:40 PM	Peak Integrated by Software

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052025

Review By	Rahul	Review On	5/21/2025 2:52:20 PM				
Supervise By	Jagrut	Supervise On	5/21/2025 4:44:06 PM				
SubDirectory	BF052025	HP Acquire Method	BNA_F		HP Processing Method	bf052025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12665,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142465.D	20 May 2025 11:13	RC/JU	Ok
2	SSTDCCC040	BF142466.D	20 May 2025 11:41	RC/JU	Not Ok
3	SSTDICC2.5	BF142467.D	20 May 2025 12:10	RC/JU	Ok
4	SSTDICC005	BF142468.D	20 May 2025 12:38	RC/JU	Ok
5	SSTDICC010	BF142469.D	20 May 2025 13:07	RC/JU	Ok,M
6	SSTDICC020	BF142470.D	20 May 2025 13:36	RC/JU	Ok
7	SSTDICCC040	BF142471.D	20 May 2025 14:05	RC/JU	Ok
8	SSTDICC050	BF142472.D	20 May 2025 14:34	RC/JU	Ok
9	SSTDICC060	BF142473.D	20 May 2025 15:03	RC/JU	Ok
10	SSTDICC080	BF142474.D	20 May 2025 15:31	RC/JU	Ok
11	SSTDICV040	BF142475.D	20 May 2025 16:31	RC/JU	Ok
12	PB168067TB	BF142476.D	20 May 2025 17:29	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052125

Review By	Rahul	Review On	5/22/2025 1:19:28 PM				
Supervise By	Jagrut	Supervise On	5/22/2025 2:53:36 PM				
SubDirectory	BF052125	HP Acquire Method	BNA_F			HP Processing Method	bf052025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12666,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142477.D	21 May 2025 09:41	RC/JU	Ok
2	SSTDCCC040	BF142478.D	21 May 2025 10:40	RC/JU	Ok
3	PB168083BL	BF142479.D	21 May 2025 11:09	RC/JU	Ok
4	PB168083BS	BF142480.D	21 May 2025 11:37	RC/JU	Ok,M
5	Q2074-02	BF142481.D	21 May 2025 12:14	RC/JU	Ok
6	Q2074-04	BF142482.D	21 May 2025 12:43	RC/JU	Ok
7	Q2074-05	BF142483.D	21 May 2025 13:11	RC/JU	ReRun
8	Q2074-06	BF142484.D	21 May 2025 13:40	RC/JU	Ok
9	Q2074-08	BF142485.D	21 May 2025 14:08	RC/JU	ReRun
10	Q2075-03	BF142486.D	21 May 2025 14:37	RC/JU	Ok
11	Q2075-04MS	BF142487.D	21 May 2025 15:06	RC/JU	Ok,M
12	Q2075-05MSD	BF142488.D	21 May 2025 15:34	RC/JU	Ok,M
13	Q2075-06	BF142489.D	21 May 2025 16:03	RC/JU	Ok
14	Q2068-01	BF142490.D	21 May 2025 16:32	RC/JU	Ok
15	Q2080-01	BF142491.D	21 May 2025 17:10	RC/JU	ReRun
16	Q2080-07	BF142492.D	21 May 2025 17:39	RC/JU	ReRun
17	Q2071-08	BF142493.D	21 May 2025 18:07	RC/JU	ReRun
18	Q2071-12	BF142494.D	21 May 2025 18:36	RC/JU	Ok
19	Q2075-01	BF142495.D	21 May 2025 19:05	RC/JU	ReRun
20	Q2075-02	BF142496.D	21 May 2025 19:34	RC/JU	ReRun
21	Q2074-01	BF142497.D	21 May 2025 20:03	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052125

Review By	Rahul	Review On	5/22/2025 1:19:28 PM				
Supervise By	Jagrut	Supervise On	5/22/2025 2:53:36 PM				
SubDirectory	BF052125	HP Acquire Method	BNA_F		HP Processing Method	bf052025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12666,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2074-03	BF142498.D	21 May 2025 20:32	RC/JU	ReRun
23	Q2074-07	BF142499.D	21 May 2025 21:01	RC/JU	ReRun
24	Q2052-01	BF142500.D	21 May 2025 21:30	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052225

Review By	Rahul	Review On	5/23/2025 11:49:39 AM				
Supervise By	Jagrut	Supervise On	5/23/2025 5:06:44 PM				
SubDirectory	BF052225	HP Acquire Method	BNA_F		HP Processing Method	bf052025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12666,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142501.D	22 May 2025 10:43	RC/JU	Ok
2	SSTDCCC040	BF142502.D	22 May 2025 11:11	RC/JU	Ok
3	PB168104BL	BF142503.D	22 May 2025 11:41	RC/JU	Ok
4	PB168104BS	BF142504.D	22 May 2025 12:09	RC/JU	Ok,M
5	Q2074-05	BF142505.D	22 May 2025 12:42	RC/JU	Ok
6	Q2074-08	BF142506.D	22 May 2025 13:11	RC/JU	Ok
7	Q2080-01	BF142507.D	22 May 2025 13:40	RC/JU	Ok
8	Q2080-07	BF142508.D	22 May 2025 14:09	RC/JU	Ok
9	Q2071-08	BF142509.D	22 May 2025 14:38	RC/JU	Ok
10	Q2075-01	BF142510.D	22 May 2025 15:07	RC/JU	Ok,M
11	Q2075-02	BF142511.D	22 May 2025 15:36	RC/JU	Ok,M
12	Q2052-01	BF142512.D	22 May 2025 16:04	RC/JU	Ok,M
13	Q2074-01	BF142513.D	22 May 2025 16:34	RC/JU	Ok,M
14	Q2074-03	BF142514.D	22 May 2025 17:03	RC/JU	Ok
15	Q2074-07	BF142515.D	22 May 2025 17:32	RC/JU	Ok,M
16	Q2092-01	BF142516.D	22 May 2025 18:00	RC/JU	Ok
17	Q2097-06	BF142517.D	22 May 2025 18:29	RC/JU	Ok
18	Q2097-08	BF142518.D	22 May 2025 18:58	RC/JU	Ok
19	Q2097-10	BF142519.D	22 May 2025 19:27	RC/JU	Ok
20	Q2097-14	BF142520.D	22 May 2025 19:56	RC/JU	Ok
21	Q2095-05	BF142521.D	22 May 2025 20:25	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052225

Review By	Rahul	Review On	5/23/2025 11:49:39 AM		
Supervise By	Jagrut	Supervise On	5/23/2025 5:06:44 PM		
SubDirectory	BF052225	HP Acquire Method	BNA_F	HP Processing Method	bf052025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12666,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2097-17	BF142522.D	22 May 2025 20:53	RC/JU	Ok
23	Q2101-01	BF142523.D	22 May 2025 21:22	RC/JU	Ok,M
24	Q2104-01	BF142524.D	22 May 2025 21:51	RC/JU	Ok,M
25	Q2095-01	BF142525.D	22 May 2025 22:20	RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052025

Review By	Rahul	Review On	5/21/2025 2:52:20 PM		
Supervise By	Jagrut	Supervise On	5/21/2025 4:44:06 PM		
SubDirectory	BF052025	HP Acquire Method	BNA_F	HP Processing Method	bf052025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12665,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142465.D	20 May 2025 11:13		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142466.D	20 May 2025 11:41	Fresh Calibration Required	RC/JU	Not Ok
3	SSTDICC2.5	SSTDICC2.5	BF142467.D	20 May 2025 12:10		RC/JU	Ok
4	SSTDICC005	SSTDICC005	BF142468.D	20 May 2025 12:38	Compound #32,54,85 removed from 5ppm	RC/JU	Ok
5	SSTDICC010	SSTDICC010	BF142469.D	20 May 2025 13:07		RC/JU	Ok,M
6	SSTDICC020	SSTDICC020	BF142470.D	20 May 2025 13:36		RC/JU	Ok
7	SSTDICCC040	SSTDICCC040	BF142471.D	20 May 2025 14:05	This calibration is good for both the methods, 8270E DOD and 625.1.	RC/JU	Ok
8	SSTDICC050	SSTDICC050	BF142472.D	20 May 2025 14:34		RC/JU	Ok
9	SSTDICC060	SSTDICC060	BF142473.D	20 May 2025 15:03		RC/JU	Ok
10	SSTDICC080	SSTDICC080	BF142474.D	20 May 2025 15:31		RC/JU	Ok
11	SSTDICV040	ICVBF052025	BF142475.D	20 May 2025 16:31		RC/JU	Ok
12	PB168067TB	PB168067TB	BF142476.D	20 May 2025 17:29		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052125

Review By	Rahul	Review On	5/22/2025 1:19:28 PM		
Supervise By	Jagrut	Supervise On	5/22/2025 2:53:36 PM		
SubDirectory	BF052125	HP Acquire Method	BNA_F	HP Processing Method	bf052025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12666,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142477.D	21 May 2025 09:41		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142478.D	21 May 2025 10:40		RC/JU	Ok
3	PB168083BL	PB168083BL	BF142479.D	21 May 2025 11:09		RC/JU	Ok
4	PB168083BS	PB168083BS	BF142480.D	21 May 2025 11:37		RC/JU	Ok,M
5	Q2074-02	TP-7	BF142481.D	21 May 2025 12:14		RC/JU	Ok
6	Q2074-04	TP-20	BF142482.D	21 May 2025 12:43		RC/JU	Ok
7	Q2074-05	TP-38	BF142483.D	21 May 2025 13:11	Internal Standard Fail	RC/JU	ReRun
8	Q2074-06	TP-19	BF142484.D	21 May 2025 13:40		RC/JU	Ok
9	Q2074-08	TP-18	BF142485.D	21 May 2025 14:08	Internal Standard Fail	RC/JU	ReRun
10	Q2075-03	SS-11	BF142486.D	21 May 2025 14:37		RC/JU	Ok
11	Q2075-04MS	SS-11MS	BF142487.D	21 May 2025 15:06	Internal Standard Fail	RC/JU	Ok,M
12	Q2075-05MSD	SS-11MSD	BF142488.D	21 May 2025 15:34	Internal Standard Fail	RC/JU	Ok,M
13	Q2075-06	SS-MW1-11.5	BF142489.D	21 May 2025 16:03	Internal Standard Fail	RC/JU	Ok
14	Q2068-01	LAW-25-0075	BF142490.D	21 May 2025 16:32	Internal Standard Fail	RC/JU	Ok
15	Q2080-01	PL-HRH-COMP-01	BF142491.D	21 May 2025 17:10	Internal Standard Fail	RC/JU	ReRun
16	Q2080-07	PL-HRH-COMP-02	BF142492.D	21 May 2025 17:39	Internal Standard Fail	RC/JU	ReRun
17	Q2071-08	L1-WC-8	BF142493.D	21 May 2025 18:07	Internal Standard Fail	RC/JU	ReRun
18	Q2071-12	L1-WC-9	BF142494.D	21 May 2025 18:36		RC/JU	Ok

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052125

Review By	Rahul	Review On	5/22/2025 1:19:28 PM		
Supervise By	Jagrut	Supervise On	5/22/2025 2:53:36 PM		
SubDirectory	BF052125	HP Acquire Method	BNA_F	HP Processing Method	bf052025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12666,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2075-01	SS-10	BF142495.D	21 May 2025 19:05	Internal Standard Fail	RC/JU	ReRun
20	Q2075-02	SS-910	BF142496.D	21 May 2025 19:34	Internal Standard Fail	RC/JU	ReRun
21	Q2074-01	TP-12	BF142497.D	21 May 2025 20:03	Internal Standard Fail	RC/JU	ReRun
22	Q2074-03	TP-15	BF142498.D	21 May 2025 20:32	Internal Standard Fail	RC/JU	ReRun
23	Q2074-07	TP-40	BF142499.D	21 May 2025 21:01	Internal Standard Fail	RC/JU	ReRun
24	Q2052-01	TP-B	BF142500.D	21 May 2025 21:30	Internal Standard Fail	RC/JU	ReRun

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052225

Review By	Rahul	Review On	5/23/2025 11:49:39 AM		
Supervise By	Jagrut	Supervise On	5/23/2025 5:06:44 PM		
SubDirectory	BF052225	HP Acquire Method	BNA_F	HP Processing Method	bf052025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12666,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142501.D	22 May 2025 10:43		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142502.D	22 May 2025 11:11		RC/JU	Ok
3	PB168104BL	PB168104BL	BF142503.D	22 May 2025 11:41		RC/JU	Ok
4	PB168104BS	PB168104BS	BF142504.D	22 May 2025 12:09		RC/JU	Ok,M
5	Q2074-05	TP-38	BF142505.D	22 May 2025 12:42		RC/JU	Ok
6	Q2074-08	TP-18	BF142506.D	22 May 2025 13:11		RC/JU	Ok
7	Q2080-01	PL-HRH-COMP-01	BF142507.D	22 May 2025 13:40		RC/JU	Ok
8	Q2080-07	PL-HRH-COMP-02	BF142508.D	22 May 2025 14:09		RC/JU	Ok
9	Q2071-08	L1-WC-8	BF142509.D	22 May 2025 14:38		RC/JU	Ok
10	Q2075-01	SS-10	BF142510.D	22 May 2025 15:07		RC/JU	Ok,M
11	Q2075-02	SS-910	BF142511.D	22 May 2025 15:36		RC/JU	Ok,M
12	Q2052-01	TP-B	BF142512.D	22 May 2025 16:04		RC/JU	Ok,M
13	Q2074-01	TP-12	BF142513.D	22 May 2025 16:34		RC/JU	Ok,M
14	Q2074-03	TP-15	BF142514.D	22 May 2025 17:03		RC/JU	Ok
15	Q2074-07	TP-40	BF142515.D	22 May 2025 17:32		RC/JU	Ok,M
16	Q2092-01	VNJ-202	BF142516.D	22 May 2025 18:00		RC/JU	Ok
17	Q2097-06	RBR251675	BF142517.D	22 May 2025 18:29		RC/JU	Ok
18	Q2097-08	VNJ-244	BF142518.D	22 May 2025 18:58		RC/JU	Ok

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052225

Review By	Rahul	Review On	5/23/2025 11:49:39 AM		
Supervise By	Jagrut	Supervise On	5/23/2025 5:06:44 PM		
SubDirectory	BF052225	HP Acquire Method	BNA_F	HP Processing Method	bf052025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12666,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2097-10	ETGI-290	BF142519.D	22 May 2025 19:27		RC/JU	Ok
20	Q2097-14	RBR251372	BF142520.D	22 May 2025 19:56		RC/JU	Ok
21	Q2095-05	WCS-TP2	BF142521.D	22 May 2025 20:25		RC/JU	Ok
22	Q2097-17	RT-3888	BF142522.D	22 May 2025 20:53		RC/JU	Ok
23	Q2101-01	TP-1-MHE	BF142523.D	22 May 2025 21:22		RC/JU	Ok,M
24	Q2104-01	TR-06-052125	BF142524.D	22 May 2025 21:51		RC/JU	Ok,M
25	Q2095-01	WCS-TP1	BF142525.D	22 May 2025 22:20		RC/JU	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/20/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:10
In Date: 05/19/2025
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: 05/20/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB135825

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
Q1984-19	OU4-TB01-050725	1	1.00	1.00	2.00	2.00	100.0	T.B.
Q2074-01	TP-12	2	1.18	10.28	11.46	9.76	83.5	
Q2074-02	TP-7	3	1.18	10.15	11.33	10.18	88.7	
Q2074-03	TP-15	4	1.13	10.33	11.46	10.12	87.0	
Q2074-04	TP-20	5	1.12	10.65	11.77	10.1	84.3	
Q2074-05	TP-38	6	1.18	10.19	11.37	9.53	81.9	
Q2074-06	TP-19	7	1.16	10.12	11.28	9.85	85.9	
Q2074-07	TP-40	8	1.14	9.89	11.03	9.96	89.2	
Q2074-08	TP-18	9	1.15	10.16	11.31	9.07	78.0	
Q2075-01	SS-10	10	1.16	10.56	11.72	9.59	79.8	
Q2075-02	SS-910	11	1.17	10.05	11.22	9.34	81.3	
Q2075-03	SS-11	12	1.18	10.51	11.69	10.37	87.4	
Q2075-04	Q2075-03MS	13	1.18	10.51	11.69	10.37	87.4	
Q2075-05	Q2075-03MSD	14	1.18	10.51	11.69	10.37	87.4	
Q2075-06	SS-MW1-11.5	15	1.14	10.00	11.14	10.24	91.0	
Q2076-01	OILY-DEBRIS	16	1.00	1.00	2.00	2.00	100.0	oily-debris
Q2080-01	PL-HRH-COMP-01	17	1.13	10.62	11.75	10.32	86.5	
Q2080-02	PL-HRH-VOC-01	18	1.17	10.22	11.39	9.6	82.5	
Q2080-03	PL-HRH-01	19	1.12	10.77	11.89	10.16	83.9	
Q2080-04	PL-HRH-02	20	1.16	10.40	11.56	9.82	83.3	
Q2080-05	PL-HRH-03	21	1.15	10.00	11.15	9.43	82.8	
Q2080-07	PL-HRH-COMP-02	22	1.19	10.46	11.65	9.62	80.6	
Q2080-08	PL-HRH-VOC-02	23	1.14	10.76	11.9	9.8	80.5	
Q2080-09	PL-HRH-04	24	1.16	10.70	11.86	9.55	78.4	
Q2080-10	PL-HRH-05	25	1.19	10.43	11.62	9.52	79.9	
Q2080-11	PL-HRH-06	26	1.13	10.74	11.87	10.2	84.5	
Q2081-01	CAULK	27	1.00	1.00	2.00	2.00	100.0	caluk

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/20/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:10
In Date: 05/19/2025
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: 05/20/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB135825

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

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB 135825

WorkList Name : %1-051925 **WorkList ID :** 189586 **Department :** Wet-Chemistry **Date :** 05-19-2025 08:23:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1984-19	OU4-TB01-050725	Solid	Percent Solids	Cool 4 deg C	NOBI03	L41	05/07/2025	Chemtech -SO
Q2074-01	TP-12	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-02	TP-7	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-03	TP-15	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-04	TP-20	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-05	TP-38	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-06	TP-19	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-07	TP-40	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-08	TP-18	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2075-01	SS-10	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2075-02	SS-910	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/15/2025	Chemtech -SO
Q2075-03	SS-11	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/15/2025	Chemtech -SO
Q2075-04	Q2075-03MS	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/15/2025	Chemtech -SO
Q2075-05	Q2075-03MSD	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/15/2025	Chemtech -SO
Q2075-06	SS-MW1-11.5	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/15/2025	Chemtech -SO
Q2076-01	OILY-DEBRIS	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/16/2025	Chemtech -SO
Q2080-01	PL-HRH-COMP-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-02	PL-HRH-VOC-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-03	PL-HRH-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-04	PL-HRH-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-05	PL-HRH-03	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO

Date/Time 05-19-25 15:35

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 05-19-25 17:15

Raw Sample Received by:

Raw Sample Relinquished by:

WORKLIST(Hardcopy Internal Chain)

VB 135825

WorkList Name : %1-051925 **WorkList ID :** 189586 **Department :** Wet-Chemistry **Date :** 05-19-2025 08:23:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2080-07	PL-HRH-COMP-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-08	PL-HRH-VOC-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-09	PL-HRH-04	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-10	PL-HRH-05	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-11	PL-HRH-06	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2081-01	CAULK	Solid	Percent Solids	Cool 4 deg C	ATCE02	L31	05/19/2025	Chemtech -SO

Date/Time 05.19.25 15:35

Raw Sample Received by: JP (4°C)

Raw Sample Relinquished by:

Date/Time 05.19.25 17:15

Raw Sample Received by:

Raw Sample Relinquished by: JP 4°C

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168083

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	05/20/2025
Matrix :	Solid			**Extraction Start Time :**	09:45
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	05/20/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	13:00
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	RUPESH

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

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6782
Surrogate	1.0ML	100/150 PPM	SP6754
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2612
Baked Na2SO4	N/A	EP2614
Sand	N/A	EP2865
Methylene Chloride	N/A	E3930
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210443.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/20/25	RS (Ext lab)	RL/SVOC
13:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168083

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 05/20/2025

Sample ID	Client Sample ID	Test	g mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168083BL	SBLK083	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			U6-1
PB168083BS	SLCS083	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			2
Q2074-01	TP-12	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		3
Q2074-02	TP-7	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		4
Q2074-03	TP-15	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		5
Q2074-04	TP-20	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		6
Q2074-05	TP-38	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	E		U1-1
Q2074-06	TP-19	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		2
Q2074-07	TP-40	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		3
Q2074-08	TP-18	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		4
Q2075-01	SS-10	SVOCMS Group3	30.01	N/A	ritesh	Evelyn	1	E		5
Q2075-02	SS-910	SVOCMS Group3	30.06	N/A	ritesh	Evelyn	1	E		6
Q2075-03	SS-11	SVOCMS Group3	30.04	N/A	ritesh	Evelyn	1	E		U2-1
Q2075-04	Q2075-03MS	SVOCMS Group3	30.07	N/A	ritesh	Evelyn	1	E		2
Q2075-05	Q2075-03MSD	SVOCMS Group3	30.03	N/A	ritesh	Evelyn	1	E		3
Q2075-06	SS-MW1-11.5	SVOCMS Group3	30.06	N/A	ritesh	Evelyn	1	E		4
Q2080-01	PL-HRH-COMP-01	SVOC-TCL BNA -20	50.08	N/A	ritesh	Evelyn	1	E		5
Q2080-07	PL-HRH-COMP-02	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E		6

RS 5/20

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

68083
9:45

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2080BN **WorkList ID :** 189621 **Department :** Extraction **Date :** 05-20-2025 08:37:41

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2074-01	TP-12	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2074-02	TP-7	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2074-03	TP-15	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2074-04	TP-20	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2074-05	TP-38	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2074-06	TP-19	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2074-07	TP-40	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2074-08	TP-18	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2075-01	SS-10	Solid	SVOCMS Group3	Cool 4 deg C	CAMP02	L41	05/15/2025	8270E
Q2075-02	SS-910	Solid	SVOCMS Group3	Cool 4 deg C	CAMP02	L41	05/15/2025	8270E
Q2075-03	SS-11	Solid	SVOCMS Group3	Cool 4 deg C	CAMP02	L41	05/15/2025	8270E
Q2075-04	Q2075-03MS	Solid	SVOCMS Group3	Cool 4 deg C	CAMP02	L41	05/15/2025	8270E
Q2075-05	Q2075-03MSD	Solid	SVOCMS Group3	Cool 4 deg C	CAMP02	L41	05/15/2025	8270E
Q2075-06	SS-MW1-11.5	Solid	SVOCMS Group3	Cool 4 deg C	CAMP02	L41	05/16/2025	8270E
Q2080-01	PL-HRH-COMP-01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L31	05/19/2025	8270E
Q2080-07	PL-HRH-COMP-02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L31	05/19/2025	8270E

Date/Time 05/20/25 9:40
Raw Sample Received by: RJ LEFT-(ach)
Raw Sample Relinquished by: [signature]

Date/Time 05/20/25 10:05
Raw Sample Received by: [signature]
Raw Sample Relinquished by: RJ LEFT-(ach)

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q2074
COC Number 2047107

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: CDM SMITH
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS
PHONE: 7325904679 FAX: 7322257851

CLIENT PROJECT INFORMATION

PROJECT NAME: SOUTH RIVER WM REPLACEMENT
PROJECT NO.: LOCATION: SOUTH RIVER, NJ
PROJECT MANAGER: MARCIE ENCINAS
e-mail: ENCINASMA@CDMSMITH.COM
PHONE: 7325904679 FAX: 7322257851

CLIENT BILLING INFORMATION

BILL TO: CDM SMITH PO#:
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS PHONE: 7325904679

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☒ Level 2 (Results + QC) ☒ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B ☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1 TCL VOC
2 TCL SVOC
3 TAL METALS
4 PCB
5 PESTICIDES
6 HERBICIDES
7 DRO/GRO
8
9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	TP-12	SOIL		X	5/15/25	0800	6	X	X	X	X	X	X	X			E
2.	TP-7	SOIL		X	5/15/25	0920	6	X	X	X	X	X	X	X			E
3.	TP-15	SOIL		X	5/15/25	1035	6	X	X	X	X	X	X	X			E
4.	TP-20	SOIL		X	5/15/25	1115	6	X	X	X	X	X	X	X			E
5.	TP-35	SOIL		X	5/15/25	1200	6	X	X	X	X	X	X	X			E
6.	TP-19	SOIL		X	5/15/25	1415	6	X	X	X	X	X	X	X			E
7.	TP-40	SOIL		X	5/15/25	1450	6	X	X	X	X	X	X	X			E
8.	TP-18	SOIL		X	5/16/25	1010	6	X	X	X	X	X	X	X			E
9.																	
10.																	

PRESERVATIVES
COMMENTS ← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	5/16/25 1500	1. 5-16-25 1500
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY SAMPLER:	DATE/TIME: 1759 5.16.25	RECEIVED BY: 3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °C
Comments: _____

Page _____ of

CLIENT: ☐ Hand Delivered ☐ Other _____

Shipment Complete ☐ YES ☐ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

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

QA Control Code: A2070148

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2074 CAMP02
Client Name : CDM Smith
Client Contact : Marcie Ann Encinas
Invoice Name : CDM Smith
Invoice Contact : Marcie Ann Encinas

Order Date : 5/16/2025 3:13:00 PM
Project Name : South River WM Replacem
Receive DateTime : 5/16/2025 ~~12:00:00~~ AM
Purchase Order : 17:39

Project Mgr :
Report Type : ~~Level 1~~ NJ Reduced/
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2074-01	TP-12	Solid	~~05/16/2025~~ 05/15/2025	08:00	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2074-02	TP-7	Solid	~~05/16/2025~~ 05/15/2025	09:20	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2074-03	TP-15	Solid	~~05/16/2025~~ 05/15/2025	10:35	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2074-04	TP-20	Solid	~~05/16/~~2025 05/15/2025	11:15	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2074-05	TP-38	Solid	~~05/16/2025~~ 05/15/2025	12:00	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2074-06	TP-19	Solid	~~05/16/2025~~ 05/15/2025	14:15	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2074-07	TP-40	Solid	~~05/16/2025~~ 05/15/2025	14:50	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2074-08	TP-18	Solid	05/16/2025	10:10					

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

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LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOC-TCLVOA-10		8260D	10 Bus. Days	

Relinguished By :
Date / Time : 5/19/25 11:30

Received By :
Date / Time : 05/19/25 11:30
Storage Area : VOA Refridgerator Room