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Cover Page

Order ID : Q1488

Project ID : Amtrak Sawtooth Bridges 2025

Client : Portal Partners Tri-Venture

Lab Sample Number	Client Sample Number
Q1488-01	ENV-101-SB01
Q1488-02	ENV-101-SB01
Q1488-03	ENV-101-SB02
Q1488-04	ENV-101-SB02
Q1488-05	ENV-102-SB01
Q1488-06	ENV-102-SB01
Q1488-07	ENV-102-SB02
Q1488-08	ENV-102-SB02
Q1488-09	ENV-104-SB01
Q1488-10	ENV-104-SB01
Q1488-11	ENV-104-SB02
Q1488-12	ENV-104-SB02
Q1488-13	ENV-102-GW01
Q1488-14	ENV-104-GW01
Q1488-15	TB03042025

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: 3/8/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1488
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
12 Solid samples were received on 03/04/2025.
3 Water samples were received on 03/04/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df The analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for PB166982BL [2,4,6-Tribromophenol - 115%], PB166982BS [2,4,6-Tribromophenol - 118%], PB166982BSD [2,4,6-Tribromophenol - 116%], ENV-102-GW01 [2,4,6-Tribromophenol - 116%], these compounds did not meet the NJDKQP criteria but met the in-house criteria, but ENV-104-GW01 [2,4,6-Tribromophenol - 140% and Nitro benzene-d5 - 134%], these compounds did not meet the NJDKQP criteria and in-house criteria but as per method two surrogates are allowed to failed, therefore no corrective action was taken.
The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {Q1487-01MS} with File ID: BF141844.D recoveries met the requirements for all compounds except for 3-Nitroaniline[68%], 4-Chloroaniline[48%], Benzo(g,h,i)perylene [58%], Dibenz(a,h)anthracene[68%] and Indeno(1,2,3-

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cd)pyrene[68%],these compounds did not meet the NJDKQP criteria but met the in-house criteria.

The MSD {Q1487-01MSD} with File ID: BF141845.D recoveries met the acceptable requirements except for 4-Chloroaniline[50%], Benzo(g,h,i)perylene[58%] and Indeno(1,2,3-cd)pyrene[68%], these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The RPD met criteria .

The Blank Spike for {PB166984BS} with File ID: BF141860.D met requirements for all samples except for 2,2-oxybis(1-Chloropropane)[65%], 3-Nitroaniline[50%] and 4-Chloroaniline[24%], these compounds did not meet the NJDKQP criteria but met the in-house criteria
.
The Blank Spike for {PB166982BS} with File ID: BF141862.D met requirements for all samples except for 3,3-Dichlorobenzidine[57%], 3-Nitroaniline[67%] and 4-Chloroaniline[39%], these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The Blank Spike Duplicate for {PB166982BSD} with File ID: BF141863.D met requirements for all samples except for 3,3-Dichlorobenzidine[59%], 3-Nitroaniline[69%] and 4-Chloroaniline[40%], these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The Blank analysis did not indicate the presence of lab contamination.

The % RSD is greater than 20% in the Initial Calibration (8270-BF022725.M) for 2-Nitrophenol, 2-Nitroaniline, 2,6-Dinitrotoluene, 3-Nitroaniline, 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylphenol, these compounds are passing on Linear Regression and 2,4-Dinitrophenol, is passing on Quadratic regression.

The Continuous Calibration File ID BF141835.D met the requirements except for 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Nitroaniline and 4-Nitrophenol , The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Continuous Calibration File ID BF141858.D met the requirements except for 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Nitroaniline, 4-Nitrophenol, Benzo(g,h,i)perylene and Nitrobenzene-d5, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Tuning criteria met requirements.

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E. Additional Comments:

The Sample ENV-102-SB01, ENV-104-SB01, have the concentration of target compound below method detection limits; therefore it is not reported as Hit in Form1.

Sample # ENV-102-GW01, ENV-104-GW01, was received with limited volume.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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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 #: **Q1488**

	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: **MAYUR DESAI** **Date:** **03/08/2025**

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LAB CHRONICLE

OrderID:	Q1488	**OrderDate:**	3/4/2025 3:39:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	H31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1488-01	**ENV-101-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/06/25	
Q1488-03	**ENV-101-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/05/25	
Q1488-05	**ENV-102-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/05/25	
Q1488-07	**ENV-102-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/06/25	
Q1488-09	**ENV-104-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/05/25	
Q1488-11	**ENV-104-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/05/25	
Q1488-13	**ENV-102-GW01**	**Water**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/06/25	
Q1488-14	**ENV-104-GW01**	**Water**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/06/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**ENV-101-SB01**								
Q1488-01	ENV-101-SB01	SOIL	Benzophenone	*	200.000	J	0	0	ug/Kg
Q1488-01	ENV-101-SB01	SOIL	Butane, 2-methoxy-2-methyl-	*	1,400.000	JB	0	0	ug/Kg
Q1488-01	ENV-101-SB01	SOIL	n-Hexadecanoic acid	*	350.000	J	0	0	ug/Kg
Q1488-01	ENV-101-SB01	SOIL	Octadecanoic acid	*	110.000	J	0	0	ug/Kg
Q1488-01	ENV-101-SB01	SOIL	1-Heneicosanol	*	300.000	J	0	0	ug/Kg
			Total Tics :		**2,360.00**				
			Total Concentration:		**2,360.00**				
Client ID :	**ENV-101-SB02**								
Q1488-03	ENV-101-SB02	SOIL	1-Heneicosanol	*	170.000	J	0	0	ug/Kg
Q1488-03	ENV-101-SB02	SOIL	Benzophenone	*	140.000	J	0	0	ug/Kg
Q1488-03	ENV-101-SB02	SOIL	Butane, 2-methoxy-2-methyl-	*	1,200.000	JB	0	0	ug/Kg
Q1488-03	ENV-101-SB02	SOIL	n-Hexadecanoic acid	*	210.000	J	0	0	ug/Kg
			Total Tics :		**1,720.00**				
			Total Concentration:		**1,720.00**				
Client ID :	**ENV-102-SB01**								
Q1488-05	ENV-102-SB01	SOIL	Benzophenone	*	160.000	J	0	0	ug/Kg
Q1488-05	ENV-102-SB01	SOIL	Butane, 2-methoxy-2-methyl-	*	1,000.000	JB	0	0	ug/Kg
Q1488-05	ENV-102-SB01	SOIL	Heptadecyl heptafluorobutyrate	*	130.000	J	0	0	ug/Kg
Q1488-05	ENV-102-SB01	SOIL	n-Hexadecanoic acid	*	170.000	J	0	0	ug/Kg
			Total Tics :		**1,460.00**				
			Total Concentration:		**1,460.00**				
Client ID :	**ENV-102-SB02**								
Q1488-07	ENV-102-SB02	SOIL	1-Docosanol, acetate	*	93.500	J	0	0	ug/Kg
Q1488-07	ENV-102-SB02	SOIL	1-Heneicosanol	*	320.000	J	0	0	ug/Kg
Q1488-07	ENV-102-SB02	SOIL	Benzophenone	*	210.000	J	0	0	ug/Kg
Q1488-07	ENV-102-SB02	SOIL	Butane, 2-methoxy-2-methyl-	*	1,000.000	JB	0	0	ug/Kg
Q1488-07	ENV-102-SB02	SOIL	n-Hexadecanoic acid	*	870.000	J	0	0	ug/Kg
Q1488-07	ENV-102-SB02	SOIL	Octadecanoic acid	*	380.000	J	0	0	ug/Kg
			Total Tics :		**2,873.50**				
			Total Concentration:		**2,873.50**				
Client ID :	**ENV-104-SB01**								
Q1488-09	ENV-104-SB01	SOIL	Fluoranthene		120.000	J	98.8	210	ug/Kg
Q1488-09	ENV-104-SB01	SOIL	Chrysene		98.100	J	96.2	210	ug/Kg
Q1488-09	ENV-104-SB01	SOIL	Benzo(b)fluoranthene		130.000	J	98.1	210	ug/Kg
			Total Svoc :		**348.10**				
Q1488-09	ENV-104-SB01	SOIL	Isoquinoline	*	97.200	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q1488-09	ENV-104-SB01	SOIL	n-Hexadecanoic acid	*	310.000	J	0	0	ug/Kg
Q1488-09	ENV-104-SB01	SOIL	Pentadecafluorooctanoic acid, oct	*	130.000	J	0	0	ug/Kg
Q1488-09	ENV-104-SB01	SOIL	Benzo[e]pyrene	*	80.600	J	0	0	ug/Kg
Q1488-09	ENV-104-SB01	SOIL	Benzophenone	*	200.000	J	0	0	ug/Kg
Q1488-09	ENV-104-SB01	SOIL	Butane, 2-methoxy-2-methyl-	*	1,300.000	JB	0	0	ug/Kg
			Total Tics :		**2,117.80**				
			Total Concentration:		**2,465.90**				
Client ID :	**ENV-104-SB02**								
Q1488-11	ENV-104-SB02	SOIL	9,12-Octadecadienoic acid (Z,Z)-,	*	96.300	J	0	0	ug/Kg
Q1488-11	ENV-104-SB02	SOIL	Benzophenone	*	180.000	J	0	0	ug/Kg
Q1488-11	ENV-104-SB02	SOIL	Butane, 2-methoxy-2-methyl-	*	1,100.000	JB	0	0	ug/Kg
Q1488-11	ENV-104-SB02	SOIL	n-Hexadecanoic acid	*	330.000	J	0	0	ug/Kg
Q1488-11	ENV-104-SB02	SOIL	Octacosanol	*	110.000	J	0	0	ug/Kg
			Total Tics :		**1,816.30**				
			Total Concentration:		**1,816.30**				
Client ID :	**ENV-102-GW01**								
Q1488-13	ENV-102-GW01	WATER	Caprolactam		19.300		2.4	14.3	ug/L
			Total Svoc :		**19.30**				
Q1488-13	ENV-102-GW01	WATER	Cyclopentadecane	*	4.600	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Hexanedioic acid, mono(2-ethylhe	*	7.500	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Hexanoic acid, 2-ethyl-	*	5.800	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Methanone, (1-hydroxycyclohexy	*	3.300	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	n-Hexadecanoic acid	*	15.900	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Nonanoic acid	*	5.800	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Octadecanoic acid	*	4.500	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Octanoic acid	*	3.000	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Supraene	*	3.200	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	1-Hexanol, 2-ethyl-	*	14.100	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	2,2,4-Trimethyl-1,3-pentanediol d	*	4.100	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	5.300	A	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Adipic acid, 2-decyl isobutyl ester	*	74.100	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Benzophenone	*	16.000	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Butane, 2-methoxy-2-methyl-	*	140.000	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Butyl citrate	*	3.800	J	0	0	ug/L
			Total Tics :		**311.00**				
			Total Concentration:		**330.30**				
Client ID :	**ENV-104-GW01**								
Q1488-14	ENV-104-GW01	WATER	Caprolactam		58.600		2.9	17.5	ug/L
			Total Svoc :		**58.60**				

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Hit Summary Sheet
SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Sample ID	Client ID		Parameter		Concentration	C	MDL	RDL	Units
Q1488-14	ENV-104-GW01	WATER	Benzophenone	*	15.500	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Butane, 2-methoxy-2-methyl-	*	200.000	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Butyl citrate	*	5.000	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Ethanol, 2-butoxy-	*	8.500	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Hexanoic acid, 2-ethyl-	*	4.600	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Methanone, (1-hydroxycyclohexy	*	4.100	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	n-Hexadecanoic acid	*	17.600	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Octadecanoic acid	*	4.800	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Supraene	*	5.100	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	1-Heneicosanol	*	5.100	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	1-Hexanol, 2-ethyl-	*	6.600	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	2,2,4-Trimethyl-1,3-pentanediol d	*	5.400	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	14.100	A	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	2-Propanol, 1-(2-ethoxypropoxy)-	*	30.600	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	2-Propanol, 1-(2-methoxy-1-meth	*	34.400	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	2-Propanol, 1-(2-methoxypropoxy	*	48.800	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Adipic acid, butyl non-5-yn-3-yl e	*	73.800	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Benzoic acid	*	15.800	J	9.6	17.5	ug/L
			Total Tics :		**499.80**				
			Total Concentration:		**558.40**				

QC
SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB166982BL	PB166982BL	2-Fluorophenol	150	130	87		15 (10)	110 (139)
		Phenol-d6	150	123	82		15 (10)	110 (134)
		Nitrobenzene-d5	100	109	109		30 (49)	130 (133)
		2-Fluorobiphenyl	100	93.9	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	172	115	*	15 (44)	110 (137)
		Terphenyl-d14	100	87.1	87		30 (48)	130 (125)
PB166982BS	PB166982BS	2-Fluorophenol	150	131	87		15 (10)	110 (139)
		Phenol-d6	150	124	83		15 (10)	110 (134)
		Nitrobenzene-d5	100	109	109		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.7	95		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	177	118	*	15 (44)	110 (137)
		Terphenyl-d14	100	99.9	100		30 (48)	130 (125)
PB166982BSD	PB166982BSD	2-Fluorophenol	150	128	85		15 (10)	110 (139)
		Phenol-d6	150	122	81		15 (10)	110 (134)
		Nitrobenzene-d5	100	109	109		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.0	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	174	116	*	15 (44)	110 (137)
		Terphenyl-d14	100	95.1	95		30 (48)	130 (125)
Q1488-13	ENV-102-GW01	2-Fluorophenol	150	82.7	55		15 (10)	110 (139)
		Phenol-d6	150	55.0	37		15 (10)	110 (134)
		Nitrobenzene-d5	100	112	112		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.5	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	174	116	*	15 (44)	110 (137)
		Terphenyl-d14	100	87.7	88		30 (48)	130 (125)
Q1488-14	ENV-104-GW01	2-Fluorophenol	150	105	70		15 (10)	110 (139)
		Phenol-d6	150	72.9	49		15 (10)	110 (134)
		Nitrobenzene-d5	100	134	134	*	30 (49)	130 (133)
		2-Fluorobiphenyl	100	114	114		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	211	140	*	15 (44)	110 (137)
		Terphenyl-d14	100	108	108		30 (48)	130 (125)

( ) = LABORATORY INHOUSE LIMIT

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

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB166984BL	PB166984BL	2-Fluorophenol	150	126	84		30 (18)	130 (112)
		Phenol-d6	150	119	79		30 (15)	130 (107)
		Nitrobenzene-d5	100	105	105		30 (18)	130 (107)
		2-Fluorobiphenyl	100	91.5	91		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	167	111		30 (10)	130 (116)
		Terphenyl-d14	100	82.5	83		30 (10)	130 (105)
PB166984BS	PB166984BS	2-Fluorophenol	150	122	81		30 (18)	130 (112)
		Phenol-d6	150	116	77		30 (15)	130 (107)
		Nitrobenzene-d5	100	105	105		30 (18)	130 (107)
		2-Fluorobiphenyl	100	91.3	91		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	166	110		30 (10)	130 (116)
		Terphenyl-d14	100	94.9	95		30 (10)	130 (105)
Q1487-01MS	DN-B-42MS	2-Fluorophenol	150	107	71		30 (18)	130 (112)
		Phenol-d6	150	102	68		30 (15)	130 (107)
		Nitrobenzene-d5	100	87.4	87		30 (18)	130 (107)
		2-Fluorobiphenyl	100	73.3	73		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	113	76		30 (10)	130 (116)
		Terphenyl-d14	100	55.5	56		30 (10)	130 (105)
Q1487-01MSD	DN-B-42MSD	2-Fluorophenol	150	109	72		30 (18)	130 (112)
		Phenol-d6	150	104	70		30 (15)	130 (107)
		Nitrobenzene-d5	100	89.9	90		30 (18)	130 (107)
		2-Fluorobiphenyl	100	75.0	75		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	117	78		30 (10)	130 (116)
		Terphenyl-d14	100	56.9	57		30 (10)	130 (105)
Q1488-01	ENV-101-SB01	2-Fluorophenol	150	102	68		30 (18)	130 (112)
		Phenol-d6	150	98.1	65		30 (15)	130 (107)
		Nitrobenzene-d5	100	83.7	84		30 (18)	130 (107)
		2-Fluorobiphenyl	100	70.4	70		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	125	84		30 (10)	130 (116)
		Terphenyl-d14	100	59.6	60		30 (10)	130 (105)
Q1488-03	ENV-101-SB02	2-Fluorophenol	150	99.4	66		30 (18)	130 (112)
		Phenol-d6	150	94.6	63		30 (15)	130 (107)
		Nitrobenzene-d5	100	81.2	81		30 (18)	130 (107)
		2-Fluorobiphenyl	100	69.8	70		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	96.2	64		30 (10)	130 (116)
		Terphenyl-d14	100	47.6	48		30 (10)	130 (105)
Q1488-05	ENV-102-SB01	2-Fluorophenol	150	87.9	59		30 (18)	130 (112)
		Phenol-d6	150	84.2	56		30 (15)	130 (107)
		Nitrobenzene-d5	100	72.7	73		30 (18)	130 (107)
		2-Fluorobiphenyl	100	64.2	64		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	86.1	57		30 (10)	130 (116)
		Terphenyl-d14	100	48.0	48		30 (10)	130 (105)
Q1488-07	ENV-102-SB02	2-Fluorophenol	150	91.7	61		30 (18)	130 (112)
		Phenol-d6	150	90.5	60		30 (15)	130 (107)
		Nitrobenzene-d5	100	77.1	77		30 (18)	130 (107)
		2-Fluorobiphenyl	100	68.3	68		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	118	78		30 (10)	130 (116)
		Terphenyl-d14	100	58.4	58		30 (10)	130 (105)
Q1488-09	ENV-104-SB01	2-Fluorophenol	150	86.9	58		30 (18)	130 (112)
		Phenol-d6	150	83.5	56		30 (15)	130 (107)
		Nitrobenzene-d5	100	72.1	72		30 (18)	130 (107)

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

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q1488-09	ENV-104-SB01	2-Fluorobiphenyl	100	55.5	56		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	81.7	54		30 (10)	130 (116)
		Terphenyl-d14	100	36.3	36		30 (10)	130 (105)
Q1488-11	ENV-104-SB02	2-Fluorophenol	150	87.0	58		30 (18)	130 (112)
		Phenol-d6	150	84.3	56		30 (15)	130 (107)
		Nitrobenzene-d5	100	71.4	71		30 (18)	130 (107)
		2-Fluorobiphenyl	100	59.1	59		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	92.0	61		30 (10)	130 (116)
		Terphenyl-d14	100	40.9	41		30 (10)	130 (105)

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1487-01MS		**Client Sample ID: DN-B-42MS**						**DataFile:**	**BF141844.D**		
Benzaldehyde	1900	0	850	ug/Kg	45				20 (10)	160 (86)	
Phenol	1900	0	1600	ug/Kg	84				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	1900	0	1600	ug/Kg	84				70 (54)	130 (125)	
2-Chlorophenol	1900	0	1600	ug/Kg	84				70 (79)	130 (107)	
2-Methylphenol	1900	0	1600	ug/Kg	84				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	1900	0	1400	ug/Kg	74				70 (65)	130 (110)	
Acetophenone	1900	0	1700	ug/Kg	89				70 (75)	130 (111)	
3+4-Methylphenols	1900	0	1600	ug/Kg	84				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	1900	0	1400	ug/Kg	74				70 (59)	130 (119)	
Hexachloroethane	1900	0	1600	ug/Kg	84				20 (65)	160 (117)	
Nitrobenzene	1900	0	1800	ug/Kg	95				70 (70)	130 (119)	
Isophorone	1900	0	1600	ug/Kg	84				70 (76)	130 (122)	
2-Nitrophenol	1900	0	1900	ug/Kg	100				70 (54)	130 (145)	
2,4-Dimethylphenol	1900	0	2000	ug/Kg	105				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	1900	0	1500	ug/Kg	79				70 (68)	130 (112)	
2,4-Dichlorophenol	1900	0	1600	ug/Kg	84				70 (72)	130 (118)	
Naphthalene	1900	0	1600	ug/Kg	84				70 (72)	130 (110)	
4-Chloroaniline	1900	0	910	ug/Kg	48	*			70 (10)	130 (91)	
Hexachlorobutadiene	1900	0	1600	ug/Kg	84				70 (66)	130 (114)	
Caprolactam	1900	0	1900	ug/Kg	100				20 (51)	160 (134)	
4-Chloro-3-methylphenol	1900	0	1600	ug/Kg	84				70 (57)	130 (132)	
2-Methylnaphthalene	1900	0	1500	ug/Kg	79				70 (59)	130 (123)	
Hexachlorocyclopentadiene	3800	0	4800	ug/Kg	126				20 (10)	160 (175)	
2,4,6-Trichlorophenol	1900	0	1700	ug/Kg	89				70 (72)	130 (117)	
2,4,5-Trichlorophenol	1900	0	1800	ug/Kg	95				70 (72)	130 (117)	
1,1-Biphenyl	1900	0	1800	ug/Kg	95				70 (75)	130 (113)	
2-Chloronaphthalene	1900	0	1700	ug/Kg	89				70 (67)	130 (118)	
2-Nitroaniline	1900	0	1900	ug/Kg	100				70 (69)	130 (127)	
Dimethylphthalate	1900	0	1600	ug/Kg	84				70 (70)	130 (113)	
Acenaphthylene	1900	0	1700	ug/Kg	89				70 (79)	130 (118)	
2,6-Dinitrotoluene	1900	0	1900	ug/Kg	100				70 (70)	130 (125)	
3-Nitroaniline	1900	0	1300	ug/Kg	68	*			70 (30)	130 (99)	
Acenaphthene	1900	0	1700	ug/Kg	89				70 (70)	130 (121)	
2,4-Dinitrophenol	3800	0	2700	ug/Kg	71				20 (10)	160 (155)	
4-Nitrophenol	3800	0	4200	ug/Kg	111				20 (45)	160 (133)	
Dibenzofuran	1900	0	1600	ug/Kg	84				70 (72)	130 (110)	
2,4-Dinitrotoluene	1900	0	2000	ug/Kg	105				70 (55)	130 (128)	
Diethylphthalate	1900	0	1500	ug/Kg	79				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	1900	0	1500	ug/Kg	79				70 (71)	130 (108)	
Fluorene	1900	0	1600	ug/Kg	84				70 (68)	130 (116)	
4-Nitroaniline	1900	0	1900	ug/Kg	100				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	1900	0	1500	ug/Kg	79				70 (10)	130 (160)	
N-Nitrosodiphenylamine	1900	0	1800	ug/Kg	95				70 (73)	130 (118)	
4-Bromophenyl-phenylether	1900	0	1700	ug/Kg	89				70 (65)	130 (121)	
Hexachlorobenzene	1900	0	1700	ug/Kg	89				70 (67)	130 (118)	
Atrazine	1900	0	2400	ug/Kg	126				70 (79)	130 (127)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	3800	0	3200	ug/Kg	84				20 (47)	160 (128)	
Phenanthrene	1900	0	1700	ug/Kg	89				70 (52)	130 (128)	
Anthracene	1900	0	1700	ug/Kg	89				70 (62)	130 (124)	
Carbazole	1900	0	1700	ug/Kg	89				70 (59)	130 (119)	
Di-n-butylphthalate	1900	0	1500	ug/Kg	79				70 (69)	130 (118)	
Fluoranthene	1900	0	1500	ug/Kg	79				70 (44)	130 (125)	
Pyrene	1900	0	1400	ug/Kg	74				70 (26)	130 (142)	
Butylbenzylphthalate	1900	0	1400	ug/Kg	74				70 (64)	130 (126)	
3,3-Dichlorobenzidine	1900	0	1800	ug/Kg	95				70 (33)	130 (116)	
Benzo(a)anthracene	1900	0	1700	ug/Kg	89				70 (71)	130 (114)	
Chrysene	1900	0	1600	ug/Kg	84				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	1900	0	1400	ug/Kg	74				70 (42)	130 (169)	
Di-n-octyl phthalate	1900	0	1700	ug/Kg	89				70 (23)	130 (175)	
Benzo(b)fluoranthene	1900	0	1600	ug/Kg	84				70 (67)	130 (121)	
Benzo(k)fluoranthene	1900	0	1500	ug/Kg	79				70 (57)	130 (134)	
Benzo(a)pyrene	1900	0	1700	ug/Kg	89				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	1900	0	1300	ug/Kg	68	*			70 (40)	130 (129)	
Dibenz(a,h)anthracene	1900	0	1300	ug/Kg	68	*			70 (43)	130 (123)	
Benzo(g,h,i)perylene	1900	0	1100	ug/Kg	58	*			70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	1900	0	1800	ug/Kg	95				70 (69)	130 (124)	
1,4-Dioxane	1900	0	1600	ug/Kg	84				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	1900	0	1700	ug/Kg	89				70 (69)	130 (112)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1487-01MSD		**Client Sample ID: DN-B-42MSD**						**DataFile: BF141845.D**			
Benzaldehyde	1900	0	860	ug/Kg	45		0		20 (10)	160 (86)	30 (20)
Phenol	1900	0	1700	ug/Kg	89		6		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	1900	0	1600	ug/Kg	84		0		70 (54)	130 (125)	30 (20)
2-Chlorophenol	1900	0	1700	ug/Kg	89		6		70 (79)	130 (107)	30 (20)
2-Methylphenol	1900	0	1600	ug/Kg	84		0		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	1900	0	1400	ug/Kg	74		0		70 (65)	130 (110)	30 (20)
Acetophenone	1900	0	1800	ug/Kg	95		7		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	1900	0	1600	ug/Kg	84		0		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	1900	0	1400	ug/Kg	74		0		70 (59)	130 (119)	30 (20)
Hexachloroethane	1900	0	1600	ug/Kg	84		0		20 (65)	160 (117)	30 (20)
Nitrobenzene	1900	0	1800	ug/Kg	95		0		70 (70)	130 (119)	30 (20)
Isophorone	1900	0	1600	ug/Kg	84		0		70 (76)	130 (122)	30 (20)
2-Nitrophenol	1900	0	1900	ug/Kg	100		0		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	1900	0	2000	ug/Kg	105		0		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	1900	0	1500	ug/Kg	79		0		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	1900	0	1600	ug/Kg	84		0		70 (72)	130 (118)	30 (20)
Naphthalene	1900	0	1600	ug/Kg	84		0		70 (72)	130 (110)	30 (20)
4-Chloroaniline	1900	0	950	ug/Kg	50	*	4		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	1900	0	1600	ug/Kg	84		0		70 (66)	130 (114)	30 (20)
Caprolactam	1900	0	1900	ug/Kg	100		0		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	1900	0	1600	ug/Kg	84		0		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	1900	0	1500	ug/Kg	79		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	3800	0	4900	ug/Kg	129		2		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	1900	0	1800	ug/Kg	95		7		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	1900	0	1800	ug/Kg	95		0		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	1900	0	1900	ug/Kg	100		5		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	1900	0	1700	ug/Kg	89		0		70 (67)	130 (118)	30 (20)
2-Nitroaniline	1900	0	2000	ug/Kg	105		5		70 (69)	130 (127)	30 (20)
Dimethylphthalate	1900	0	1600	ug/Kg	84		0		70 (70)	130 (113)	30 (20)
Acenaphthylene	1900	0	1800	ug/Kg	95		7		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	1900	0	1900	ug/Kg	100		0		70 (70)	130 (125)	30 (20)
3-Nitroaniline	1900	0	1400	ug/Kg	74		8		70 (30)	130 (99)	30 (20)
Acenaphthene	1900	0	1800	ug/Kg	95		7		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	3800	0	2800	ug/Kg	74		4		20 (10)	160 (155)	30 (20)
4-Nitrophenol	3800	0	4300	ug/Kg	113		2		20 (45)	160 (133)	30 (20)
Dibenzofuran	1900	0	1600	ug/Kg	84		0		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	1900	0	2100	ug/Kg	111		6		70 (55)	130 (128)	30 (20)
Diethylphthalate	1900	0	1500	ug/Kg	79		0		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	1900	0	1600	ug/Kg	84		6		70 (71)	130 (108)	30 (20)
Fluorene	1900	0	1600	ug/Kg	84		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	1900	0	2000	ug/Kg	105		5		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	1900	0	1600	ug/Kg	84		6		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	1900	0	1700	ug/Kg	89		7		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	1900	0	1700	ug/Kg	89		0		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	1900	0	1700	ug/Kg	89		0		70 (67)	130 (118)	30 (20)
Atrazine	1900	0	2400	ug/Kg	126		0		70 (79)	130 (127)	30 (20)

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	3800	0	3200	ug/Kg	84		0		20 (47)	160 (128)	30 (20)
Phenanthrene	1900	0	1700	ug/Kg	89		0		70 (52)	130 (128)	30 (20)
Anthracene	1900	0	1700	ug/Kg	89		0		70 (62)	130 (124)	30 (20)
Carbazole	1900	0	1700	ug/Kg	89		0		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	1900	0	1500	ug/Kg	79		0		70 (69)	130 (118)	30 (20)
Fluoranthene	1900	0	1600	ug/Kg	84		6		70 (44)	130 (125)	30 (20)
Pyrene	1900	0	1400	ug/Kg	74		0		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	1900	0	1400	ug/Kg	74		0		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	1900	0	1800	ug/Kg	95		0		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	1900	0	1700	ug/Kg	89		0		70 (71)	130 (114)	30 (20)
Chrysene	1900	0	1700	ug/Kg	89		6		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	1900	0	1500	ug/Kg	79		7		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	1900	0	1800	ug/Kg	95		7		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	1900	0	1700	ug/Kg	89		6		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	1900	0	1500	ug/Kg	79		0		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	1900	0	1800	ug/Kg	95		7		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	1900	0	1300	ug/Kg	68	*	0		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	1900	0	1400	ug/Kg	74		8		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	1900	0	1100	ug/Kg	58	*	0		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	1900	0	1900	ug/Kg	100		5		70 (69)	130 (124)	30 (20)
1,4-Dioxane	1900	0	1600	ug/Kg	84		0		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	1900	0	1700	ug/Kg	89		0		70 (69)	130 (112)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141860.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166984BS	Benzaldehyde	1700	710	ug/Kg	42				20 (10)	160 (133)	
	Phenol	1700	1300	ug/Kg	76				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1300	ug/Kg	76				70 (60)	130 (101)	
	2-Chlorophenol	1700	1400	ug/Kg	82				70 (65)	130 (112)	
	2-Methylphenol	1700	1300	ug/Kg	76				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1100	ug/Kg	65		*		70 (51)	130 (100)	
	Acetophenone	1700	1500	ug/Kg	88				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1300	ug/Kg	76				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1200	ug/Kg	71				70 (63)	130 (95)	
	Hexachloroethane	1700	1400	ug/Kg	82				20 (72)	160 (108)	
	Nitrobenzene	1700	1500	ug/Kg	88				70 (57)	130 (101)	
	Isophorone	1700	1400	ug/Kg	82				70 (59)	130 (99)	
	2-Nitrophenol	1700	1600	ug/Kg	94				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1700	ug/Kg	100				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1300	ug/Kg	76				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1400	ug/Kg	82				70 (62)	130 (107)	
	Naphthalene	1700	1400	ug/Kg	82				70 (62)	130 (100)	
	4-Chloroaniline	1700	400	ug/Kg	24		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1400	ug/Kg	82				70 (53)	130 (98)	
	Caprolactam	1700	1600	ug/Kg	94				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1300	ug/Kg	76				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	4900	ug/Kg	148				20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1500	ug/Kg	88				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				70 (58)	130 (99)	
	2-Nitroaniline	1700	1600	ug/Kg	94				70 (66)	130 (101)	
	Dimethylphthalate	1700	1400	ug/Kg	82				70 (61)	130 (99)	
	Acenaphthylene	1700	1500	ug/Kg	88				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1600	ug/Kg	94				70 (61)	130 (104)	
	3-Nitroaniline	1700	850	ug/Kg	50		*		70 (28)	130 (100)	
	Acenaphthene	1700	1600	ug/Kg	94				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	3700	ug/Kg	112				20 (37)	160 (128)	
	4-Nitrophenol	3300	3800	ug/Kg	115				20 (48)	160 (119)	
	Dibenzofuran	1700	1300	ug/Kg	76				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1800	ug/Kg	106				70 (60)	130 (106)	
	Diethylphthalate	1700	1400	ug/Kg	82				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1400	ug/Kg	82				70 (58)	130 (98)	
	Fluorene	1700	1400	ug/Kg	82				70 (61)	130 (101)	
	4-Nitroaniline	1700	1800	ug/Kg	106				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	1900	ug/Kg	112				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1400	ug/Kg	82				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1400	ug/Kg	82				70 (66)	130 (102)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141860.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166984BS	Hexachlorobenzene	1700	1500	ug/Kg	88				70 (64)	130 (98)	
	Atrazine	1700	2000	ug/Kg	118				70 (47)	130 (152)	
	Pentachlorophenol	3300	3000	ug/Kg	91				20 (67)	160 (105)	
	Phenanthrene	1700	1400	ug/Kg	82				70 (59)	130 (103)	
	Anthracene	1700	1400	ug/Kg	82				70 (61)	130 (105)	
	Carbazole	1700	1400	ug/Kg	82				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1400	ug/Kg	82				70 (58)	130 (104)	
	Fluoranthene	1700	1500	ug/Kg	88				70 (57)	130 (107)	
	Pyrene	1700	1400	ug/Kg	82				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1400	ug/Kg	82				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	720	ug/Kg	42		*		70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1400	ug/Kg	82				70 (60)	130 (102)	
	Chrysene	1700	1400	ug/Kg	82				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	1500	ug/Kg	88				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	1400	ug/Kg	82				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1300	ug/Kg	76				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1300	ug/Kg	76				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1600	ug/Kg	94				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1500	ug/Kg	88				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1500	ug/Kg	88				70 (53)	130 (101)	
	1,4-Dioxane	1700	1200	ug/Kg	71				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1500	ug/Kg	88				70 (59)	130 (108)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141862.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166982BS	Benzaldehyde	50	23.3	ug/L	47				20 (10)	160 (162)	
	Phenol	50	42.4	ug/L	85				20 (66)	160 (118)	
	bis(2-Chloroethyl)ether	50	41.9	ug/L	84				70 (62)	130 (103)	
	2-Chlorophenol	50	45.4	ug/L	91				70 (70)	130 (117)	
	2-Methylphenol	50	44.3	ug/L	89				70 (69)	130 (109)	
	2,2-oxybis(1-Chloropropane)	50	36.4	ug/L	73				70 (65)	130 (100)	
	Acetophenone	50	47.1	ug/L	94				70 (60)	130 (104)	
	3+4-Methylphenols	50	43.7	ug/L	87				20 (67)	160 (106)	
	N-Nitroso-di-n-propylamine	50	39.7	ug/L	79				70 (57)	130 (107)	
	Hexachloroethane	50	44.5	ug/L	89				20 (76)	160 (118)	
	Nitrobenzene	50	48.9	ug/L	98				70 (58)	130 (106)	
	Isophorone	50	43.6	ug/L	87				70 (61)	130 (102)	
	2-Nitrophenol	50	53.1	ug/L	106				70 (70)	130 (115)	
	2,4-Dimethylphenol	50	54.9	ug/L	110				70 (42)	130 (142)	
	bis(2-Chloroethoxy)methane	50	41.2	ug/L	82				70 (58)	130 (109)	
	2,4-Dichlorophenol	50	44.9	ug/L	90				70 (66)	130 (115)	
	Naphthalene	50	43.2	ug/L	86				70 (64)	130 (107)	
	4-Chloroaniline	50	19.7	ug/L	39		*		70 (10)	130 (85)	
	Hexachlorobutadiene	50	46.6	ug/L	93				70 (69)	130 (101)	
	Caprolactam	50	52.3	ug/L	105				20 (58)	160 (128)	
	4-Chloro-3-methylphenol	50	44.3	ug/L	89				70 (65)	130 (114)	
	2-Methylnaphthalene	50	41.8	ug/L	84				70 (64)	130 (107)	
	Hexachlorocyclopentadiene	100	160	ug/L	160				20 (36)	160 (160)	
	2,4,6-Trichlorophenol	50	47.0	ug/L	94				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	48.6	ug/L	97				70 (70)	130 (106)	
	1,1-Biphenyl	50	47.9	ug/L	96				70 (72)	130 (98)	
	2-Chloronaphthalene	50	44.4	ug/L	89				70 (59)	130 (106)	
	2-Nitroaniline	50	51.2	ug/L	102				70 (73)	130 (114)	
	Dimethylphthalate	50	44.8	ug/L	90				70 (64)	130 (103)	
	Acenaphthylene	50	46.8	ug/L	94				70 (79)	130 (103)	
	2,6-Dinitrotoluene	50	51.2	ug/L	102				70 (64)	130 (110)	
	3-Nitroaniline	50	33.7	ug/L	67		*		70 (28)	130 (100)	
	Acenaphthene	50	51.2	ug/L	102				70 (59)	130 (113)	
	2,4-Dinitrophenol	100	120	ug/L	120				20 (36)	160 (166)	
	4-Nitrophenol	100	120	ug/L	120				20 (45)	160 (147)	
	Dibenzofuran	50	42.9	ug/L	86				70 (65)	130 (106)	
	2,4-Dinitrotoluene	50	57.4	ug/L	115				70 (60)	130 (115)	
	Diethylphthalate	50	43.7	ug/L	87				70 (63)	130 (105)	
	4-Chlorophenyl-phenylether	50	44.9	ug/L	90				70 (61)	130 (104)	
	Fluorene	50	44.9	ug/L	90				70 (64)	130 (107)	
	4-Nitroaniline	50	61.3	ug/L	123				70 (55)	130 (125)	
	4,6-Dinitro-2-methylphenol	50	59.9	ug/L	120				70 (62)	130 (132)	
	N-Nitrosodiphenylamine	50	43.6	ug/L	87				70 (61)	130 (109)	
	4-Bromophenyl-phenylether	50	44.4	ug/L	89				70 (73)	130 (103)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141862.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166982BS	Hexachlorobenzene	50	47.3	ug/L	95				70 (73)	130 (106)	
	Atrazine	50	64.1	ug/L	128				70 (76)	130 (120)	
	Pentachlorophenol	100	97.7	ug/L	98				20 (47)	160 (114)	
	Phenanthrene	50	45.5	ug/L	91				70 (62)	130 (109)	
	Anthracene	50	45.8	ug/L	92				70 (65)	130 (110)	
	Carbazole	50	45.6	ug/L	91				70 (62)	130 (106)	
	Di-n-butylphthalate	50	43.1	ug/L	86				70 (64)	130 (106)	
	Fluoranthene	50	46.5	ug/L	93				70 (64)	130 (110)	
	Pyrene	50	44.0	ug/L	88				70 (71)	130 (103)	
	Butylbenzylphthalate	50	46.5	ug/L	93				70 (61)	130 (105)	
	3,3-Dichlorobenzidine	50	28.5	ug/L	57		*		70 (43)	130 (108)	
	Benzo(a)anthracene	50	45.6	ug/L	91				70 (62)	130 (107)	
	Chrysene	50	45.0	ug/L	90				70 (61)	130 (108)	
	bis(2-Ethylhexyl)phthalate	50	46.6	ug/L	93				70 (59)	130 (110)	
	Di-n-octyl phthalate	50	45.1	ug/L	90				70 (52)	130 (139)	
	Benzo(b)fluoranthene	50	45.0	ug/L	90				70 (77)	130 (113)	
	Benzo(k)fluoranthene	50	44.4	ug/L	89				70 (77)	130 (105)	
	Benzo(a)pyrene	50	48.1	ug/L	96				70 (72)	130 (131)	
	Indeno(1,2,3-cd)pyrene	50	50.9	ug/L	102				70 (72)	130 (105)	
	Dibenz(a,h)anthracene	50	49.9	ug/L	100				70 (78)	130 (115)	
	Benzo(g,h,i)perylene	50	47.7	ug/L	95				70 (75)	130 (118)	
	1,2,4,5-Tetrachlorobenzene	50	48.9	ug/L	98				70 (72)	130 (101)	
	1,4-Dioxane	50	39.6	ug/L	79				20 (38)	160 (125)	
	2,3,4,6-Tetrachlorophenol	50	48.4	ug/L	97				70 (63)	130 (116)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141863.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166982BSD	Benzaldehyde	50	23.1	ug/L	46	1			20 (10)	160 (162)	20 (20)
	Phenol	50	41.6	ug/L	83	2			20 (66)	160 (118)	20 (20)
	bis(2-Chloroethyl)ether	50	41.1	ug/L	82	2			70 (62)	130 (103)	20 (20)
	2-Chlorophenol	50	44.8	ug/L	90	1			70 (70)	130 (117)	20 (20)
	2-Methylphenol	50	43.2	ug/L	86	3			70 (69)	130 (109)	20 (20)
	2,2-oxybis(1-Chloropropane)	50	35.1	ug/L	70	4			70 (65)	130 (100)	20 (20)
	Acetophenone	50	46.8	ug/L	94	1			70 (60)	130 (104)	20 (20)
	3+4-Methylphenols	50	42.8	ug/L	86	2			20 (67)	160 (106)	20 (20)
	N-Nitroso-di-n-propylamine	50	38.5	ug/L	77	3			70 (57)	130 (107)	20 (20)
	Hexachloroethane	50	44.7	ug/L	89	0			20 (76)	160 (118)	20 (20)
	Nitrobenzene	50	48.5	ug/L	97	1			70 (58)	130 (106)	20 (20)
	Isophorone	50	43.1	ug/L	86	1			70 (61)	130 (102)	20 (20)
	2-Nitrophenol	50	53.4	ug/L	107	1			70 (70)	130 (115)	20 (20)
	2,4-Dimethylphenol	50	53.9	ug/L	108	2			70 (42)	130 (142)	20 (20)
	bis(2-Chloroethoxy)methane	50	40.1	ug/L	80	3			70 (58)	130 (109)	20 (20)
	2,4-Dichlorophenol	50	44.6	ug/L	89	1			70 (66)	130 (115)	20 (20)
	Naphthalene	50	43.1	ug/L	86	0			70 (64)	130 (107)	20 (20)
	4-Chloroaniline	50	20.1	ug/L	40	2	*		70 (10)	130 (85)	20 (20)
	Hexachlorobutadiene	50	46.6	ug/L	93	0			70 (69)	130 (101)	20 (20)
	Caprolactam	50	50.5	ug/L	101	4			20 (58)	160 (128)	20 (20)
	4-Chloro-3-methylphenol	50	43.9	ug/L	88	1			70 (65)	130 (114)	20 (20)
	2-Methylnaphthalene	50	41.2	ug/L	82	1			70 (64)	130 (107)	20 (20)
	Hexachlorocyclopentadiene	100	160	ug/L	160	0			20 (36)	160 (160)	20 (20)
	2,4,6-Trichlorophenol	50	47.0	ug/L	94	0			70 (61)	130 (110)	20 (20)
	2,4,5-Trichlorophenol	50	48.8	ug/L	98	0			70 (70)	130 (106)	20 (20)
	1,1-Biphenyl	50	48.0	ug/L	96	0			70 (72)	130 (98)	20 (20)
	2-Chloronaphthalene	50	44.3	ug/L	89	0			70 (59)	130 (106)	20 (20)
	2-Nitroaniline	50	51.4	ug/L	103	0			70 (73)	130 (114)	20 (20)
	Dimethylphthalate	50	44.6	ug/L	89	0			70 (64)	130 (103)	20 (20)
	Acenaphthylene	50	46.3	ug/L	93	1			70 (79)	130 (103)	20 (20)
	2,6-Dinitrotoluene	50	51.6	ug/L	103	1			70 (64)	130 (110)	20 (20)
	3-Nitroaniline	50	34.7	ug/L	69	3	*		70 (28)	130 (100)	20 (20)
	Acenaphthene	50	51.0	ug/L	102	0			70 (59)	130 (113)	20 (20)
	2,4-Dinitrophenol	100	120	ug/L	120	0			20 (36)	160 (166)	20 (20)
	4-Nitrophenol	100	120	ug/L	120	0			20 (45)	160 (147)	20 (20)
	Dibenzofuran	50	42.4	ug/L	85	1			70 (65)	130 (106)	20 (20)
	2,4-Dinitrotoluene	50	57.5	ug/L	115	0			70 (60)	130 (115)	20 (20)
	Diethylphthalate	50	43.2	ug/L	86	1			70 (63)	130 (105)	20 (20)
	4-Chlorophenyl-phenylether	50	44.2	ug/L	88	2			70 (61)	130 (104)	20 (20)
	Fluorene	50	44.5	ug/L	89	1			70 (64)	130 (107)	20 (20)
	4-Nitroaniline	50	61.0	ug/L	122	0			70 (55)	130 (125)	20 (20)
	4,6-Dinitro-2-methylphenol	50	59.5	ug/L	119	1			70 (62)	130 (132)	20 (20)
	N-Nitrosodiphenylamine	50	43.0	ug/L	86	1			70 (61)	130 (109)	20 (20)
	4-Bromophenyl-phenylether	50	43.4	ug/L	87	2			70 (73)	130 (103)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141863.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166982BSD	Hexachlorobenzene	50	46.8	ug/L	94	1			70 (73)	130 (106)	20 (20)
	Atrazine	50	63.7	ug/L	127	1			70 (76)	130 (120)	20 (20)
	Pentachlorophenol	100	97.3	ug/L	97	0			20 (47)	160 (114)	20 (20)
	Phenanthrene	50	45.5	ug/L	91	0			70 (62)	130 (109)	20 (20)
	Anthracene	50	46.1	ug/L	92	1			70 (65)	130 (110)	20 (20)
	Carbazole	50	46.4	ug/L	93	2			70 (62)	130 (106)	20 (20)
	Di-n-butylphthalate	50	42.7	ug/L	85	1			70 (64)	130 (106)	20 (20)
	Fluoranthene	50	47.4	ug/L	95	2			70 (64)	130 (110)	20 (20)
	Pyrene	50	42.3	ug/L	85	4			70 (71)	130 (103)	20 (20)
	Butylbenzylphthalate	50	45.7	ug/L	91	2			70 (61)	130 (105)	20 (20)
	3,3-Dichlorobenzidine	50	29.7	ug/L	59	4	*		70 (43)	130 (108)	20 (20)
	Benzo(a)anthracene	50	44.6	ug/L	89	2			70 (62)	130 (107)	20 (20)
	Chrysene	50	44.7	ug/L	89	1			70 (61)	130 (108)	20 (20)
	bis(2-Ethylhexyl)phthalate	50	46.9	ug/L	94	1			70 (59)	130 (110)	20 (20)
	Di-n-octyl phthalate	50	45.8	ug/L	92	2			70 (52)	130 (139)	20 (20)
	Benzo(b)fluoranthene	50	44.0	ug/L	88	2			70 (77)	130 (113)	20 (20)
	Benzo(k)fluoranthene	50	45.2	ug/L	90	2			70 (77)	130 (105)	20 (20)
	Benzo(a)pyrene	50	47.5	ug/L	95	1			70 (72)	130 (131)	20 (20)
	Indeno(1,2,3-cd)pyrene	50	45.3	ug/L	91	12			70 (72)	130 (105)	20 (20)
	Dibenz(a,h)anthracene	50	45.0	ug/L	90	10			70 (78)	130 (115)	20 (20)
	Benzo(g,h,i)perylene	50	41.8	ug/L	84	13			70 (75)	130 (118)	20 (20)
	1,2,4,5-Tetrachlorobenzene	50	49.2	ug/L	98	1			70 (72)	130 (101)	20 (20)
	1,4-Dioxane	50	39.6	ug/L	79	0			20 (38)	160 (125)	20 (20)
	2,3,4,6-Tetrachlorophenol	50	48.7	ug/L	97	1			70 (63)	130 (116)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166982BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: BF141861.D Lab Sample ID: PB166982BL

Instrument ID: BNA_F Date Extracted: 03/05/2025

Matrix: (soil/water) Water Date Analyzed: 03/06/2025

Level: (low/med) LOW Time Analyzed: 11:21

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166982BS	PB166982BS	BF141862.D	03/06/2025
PB166982BSD	PB166982BSD	BF141863.D	03/06/2025
ENV-102-GW01	Q1488-13	BF141871.D	03/06/2025
ENV-104-GW01	Q1488-14	BF141870.D	03/06/2025

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166984BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: BF141859.D Lab Sample ID: PB166984BL

Instrument ID: BNA_F Date Extracted: 03/05/2025

Matrix: (soil/water) SOIL Date Analyzed: 03/06/2025

Level: (low/med) LOW Time Analyzed: 10:22

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166984BS	PB166984BS	BF141860.D	03/06/2025
ENV-102-SB02	Q1488-07	BF141864.D	03/06/2025
ENV-101-SB01	Q1488-01	BF141865.D	03/06/2025
DN-B-42MS	Q1487-01MS	BF141844.D	03/05/2025
DN-B-42MSD	Q1487-01MSD	BF141845.D	03/05/2025
ENV-104-SB02	Q1488-11	BF141841.D	03/05/2025
ENV-102-SB01	Q1488-05	BF141842.D	03/05/2025
ENV-104-SB01	Q1488-09	BF141843.D	03/05/2025
ENV-101-SB02	Q1488-03	BF141847.D	03/05/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: BF141792.D DFTPP Injection Date: 02/27/2025

Instrument ID: BNA_F DFTPP Injection Time: 14:47

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.9
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	34.9
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	46.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	14.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.1 (19.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF141793.D	02/27/2025	15:17
SSTDICC005	SSTDICC005	BF141794.D	02/27/2025	15:46
SSTDICC010	SSTDICC010	BF141795.D	02/27/2025	16:16
SSTDICC020	SSTDICC020	BF141796.D	02/27/2025	16:46
SSTDICCC040	SSTDICCC040	BF141797.D	02/27/2025	17:16
SSTDICC050	SSTDICC050	BF141798.D	02/27/2025	17:46
SSTDICC060	SSTDICC060	BF141799.D	02/27/2025	18:15
SSTDICC080	SSTDICC080	BF141800.D	02/27/2025	18:45

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: BF141834.D DFTPP Injection Date: 03/05/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	35.5
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.3
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	13.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.7 (19.8) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF141835.D	03/05/2025	10:09
ENV-104-SB02	Q1488-11	BF141841.D	03/05/2025	13:53
ENV-102-SB01	Q1488-05	BF141842.D	03/05/2025	14:23
ENV-104-SB01	Q1488-09	BF141843.D	03/05/2025	14:52
DN-B-42MS	Q1487-01MS	BF141844.D	03/05/2025	15:21
DN-B-42MSD	Q1487-01MSD	BF141845.D	03/05/2025	15:51
ENV-101-SB02	Q1488-03	BF141847.D	03/05/2025	16:50

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: BF141857.D DFTPP Injection Date: 03/06/2025

Instrument ID: BNA_F DFTPP Injection Time: 08:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.8
68	Less than 2.0% of mass 69	0.7 (2) 1
69	Mass 69 relative abundance	34.8
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	46.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	28.6
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.6 (19.7) 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	BF141858.D	03/06/2025	09:52
PB166984BL	PB166984BL	BF141859.D	03/06/2025	10:22
PB166984BS	PB166984BS	BF141860.D	03/06/2025	10:52
PB166982BL	PB166982BL	BF141861.D	03/06/2025	11:21
PB166982BS	PB166982BS	BF141862.D	03/06/2025	11:51
PB166982BSD	PB166982BSD	BF141863.D	03/06/2025	12:21
ENV-102-SB02	Q1488-07	BF141864.D	03/06/2025	13:01
ENV-101-SB01	Q1488-01	BF141865.D	03/06/2025	13:31
ENV-104-GW01	Q1488-14	BF141870.D	03/06/2025	16:00
ENV-102-GW01	Q1488-13	BF141871.D	03/06/2025	16:29

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/05/2025

Lab File ID: BF141835.D Time Analyzed: 10:09

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	246608	6.887	945299	8.17	507589	9.92
	UPPER LIMIT	493216	7.387	1890600	8.669	1015180	10.422
	LOWER LIMIT	123304	6.387	472650	7.669	253795	9.422
	EPA SAMPLE NO.						
01	ENV-104-SB02	200259	6.89	760393	8.16	389790	9.92
02	DN-B-42MS	192210	6.89	734232	8.17	370025	9.92
03	DN-B-42MSD	191311	6.89	731999	8.17	367233	9.92
04	ENV-101-SB02	181202	6.89	685861	8.16	338318	9.92
05	ENV-102-SB01	199424	6.89	747735	8.16	373687	9.92
06	ENV-104-SB01	192627	6.89	725608	8.16	362334	9.92

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/05/2025

Lab File ID: BF141835.D Time Analyzed: 10:09

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	873644	11.404	595765	14.045	513355	15.51
	UPPER LIMIT	1747290	11.904	1191530	14.545	1026710	16.01
	LOWER LIMIT	436822	10.904	297883	13.545	256678	15.01
	EPA SAMPLE NO.						
01	ENV-104-SB02	614563	11.40	462576	14.04	512973	15.51
02	DN-B-42MS	565314	11.40	409462	14.04	473342	15.51
03	DN-B-42MSD	575333	11.40	414755	14.04	465047	15.51
04	ENV-101-SB02	507852	11.40	419765	14.03	463489	15.51
05	ENV-102-SB01	582421	11.40	429057	14.04	509930	15.51
06	ENV-104-SB01	551877	11.40	435864	14.03	488168	15.51

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.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/06/2025

Lab File ID: BF141858.D Time Analyzed: 09:52

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	207866	6.887	779725	8.17	422269	9.92
	UPPER LIMIT	415732	7.387	1559450	8.669	844538	10.422
	LOWER LIMIT	103933	6.387	389863	7.669	211135	9.422
	EPA SAMPLE NO.						
01	ENV-102-GW01	157960	6.89	631847	8.16	343111	9.92
02	ENV-104-GW01	140013	6.89	541385	8.16	290279	9.92
03	PB166984BL	218862	6.89	871720	8.16	477596	9.92
04	PB166984BS	222677	6.89	860348	8.17	467040	9.92
05	PB166982BL	212037	6.89	840031	8.16	466101	9.92
06	PB166982BS	210095	6.89	832298	8.16	456822	9.92
07	PB166982BSD	218542	6.89	850562	8.17	458462	9.92
08	ENV-102-SB02	163469	6.89	639781	8.16	350300	9.92
09	ENV-101-SB01	157980	6.89	615246	8.16	336755	9.92

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/06/2025

Lab File ID: BF141858.D Time Analyzed: 09:52

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	691934	11.404	434521	14.045	382575	15.515
	UPPER LIMIT	1383870	11.904	869042	14.545	765150	16.015
	LOWER LIMIT	345967	10.904	217261	13.545	191288	15.015
	EPA SAMPLE NO.						
01	ENV-102-GW01	586477	11.40	448542	14.04	460671	15.51
02	ENV-104-GW01	493097	11.40	386724	14.04	390388	15.51
03	PB166984BL	848035	11.40	691946	14.04	552165	15.51
04	PB166984BS	801941	11.41	537472	14.05	470320	15.52
05	PB166982BL	808511	11.40	646602	14.04	495069	15.51
06	PB166982BS	789268	11.40	533191	14.05	432459	15.51
07	PB166982BSD	790298	11.40	569230	14.05	468514	15.52
08	ENV-102-SB02	621587	11.40	547828	14.04	479609	15.51
09	ENV-101-SB01	605607	11.40	545094	14.04	450529	15.51

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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SAMPLE DATA

Raw Data: **BF141865.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
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
BF141865.D	1	03/05/25 09:40	03/06/25 13:31	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	U	210	370	ug/Kg
108-95-2	Phenol	93.5	U	93.5	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	94.4	U	94.4	190	ug/Kg
95-57-8	2-Chlorophenol	94.1	U	94.1	190	ug/Kg
95-48-7	2-Methylphenol	90.9	U	90.9	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	UQ	100	190	ug/Kg
98-86-2	Acetophenone	98.0	U	98.0	190	ug/Kg
65794-96-9	3+4-Methylphenols	90.0	U	90.0	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	45.4	U	45.4	90.2	ug/Kg
67-72-1	Hexachloroethane	93.6	U	93.6	190	ug/Kg
98-95-3	Nitrobenzene	100	U	100	190	ug/Kg
78-59-1	Isophorone	95.4	U	95.4	190	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	96.7	U	96.7	190	ug/Kg
120-83-2	2,4-Dichlorophenol	85.1	U	85.1	190	ug/Kg
91-20-3	Naphthalene	93.1	U	93.1	190	ug/Kg
106-47-8	4-Chloroaniline	93.1	UQ	93.1	190	ug/Kg
87-68-3	Hexachlorobutadiene	93.9	U	93.9	190	ug/Kg
105-60-2	Caprolactam	97.9	U	97.9	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	87.4	U	87.4	190	ug/Kg
91-57-6	2-Methylnaphthalene	93.0	U	93.0	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	180	U	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	80.5	U	80.5	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	83.4	U	83.4	190	ug/Kg
92-52-4	1,1-Biphenyl	98.5	U	98.5	190	ug/Kg
91-58-7	2-Chloronaphthalene	93.9	U	93.9	190	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	190	ug/Kg
131-11-3	Dimethylphthalate	92.1	U	92.1	190	ug/Kg

Raw Data: **BF141865.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
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
BF141865.D	1	03/05/25 09:40	03/06/25 13:31	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	97.5	U	97.5	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	93.8	U	93.8	190	ug/Kg
99-09-2	3-Nitroaniline	100	UQ	100	190	ug/Kg
83-32-9	Acenaphthene	91.4	U	91.4	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	370	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	370	ug/Kg
132-64-9	Dibenzofuran	95.1	U	95.1	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	97.2	U	97.2	190	ug/Kg
84-66-2	Diethylphthalate	90.3	U	90.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	96.5	U	96.5	190	ug/Kg
86-73-7	Fluorene	96.4	U	96.4	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	92.0	U	92.0	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	88.9	U	88.9	190	ug/Kg
118-74-1	Hexachlorobenzene	95.8	U	95.8	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	87.1	U	87.1	370	ug/Kg
85-01-8	Phenanthrene	94.7	U	94.7	190	ug/Kg
120-12-7	Anthracene	95.1	U	95.1	190	ug/Kg
86-74-8	Carbazole	90.5	U	90.5	190	ug/Kg
84-74-2	Di-n-butylphthalate	95.0	U	95.0	190	ug/Kg
206-44-0	Fluoranthene	92.1	U	92.1	190	ug/Kg
129-00-0	Pyrene	93.6	U	93.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	370	ug/Kg
56-55-3	Benzo(a)anthracene	91.0	U	91.0	190	ug/Kg
218-01-9	Chrysene	89.6	U	89.6	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	91.4	U	91.4	190	ug/Kg

Raw Data: **BF141865.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
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
BF141865.D	1	03/05/25 09:40	03/06/25 13:31	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	93.1	U	93.1	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	88.0	U	88.0	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	91.5	U	91.5	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	90.3	U	90.3	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	97.9	U	97.9	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	84.2	U	84.2	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	102		30 (18) - 130 (112)	68%	SPK: 150
13127-88-3	Phenol-d6	98.1		30 (15) - 130 (107)	65%	SPK: 150
4165-60-0	Nitrobenzene-d5	83.7		30 (18) - 130 (107)	84%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.4		30 (20) - 130 (109)	70%	SPK: 100
118-79-6	2,4,6-Tribromophenol	125		30 (10) - 130 (116)	84%	SPK: 150
1718-51-0	Terphenyl-d14	59.6		30 (10) - 130 (105)	60%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	158000	6.886			
1146-65-2	Naphthalene-d8	615000	8.163			
15067-26-2	Acenaphthene-d10	337000	9.916			
1517-22-2	Phenanthrene-d10	606000	11.404			
1719-03-5	Chrysene-d12	545000	14.039			
1520-96-3	Perylene-d12	451000	15.509			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	1400	JB		2.17	ug/Kg
000119-61-9	Benzophenone	200	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	350	J		11.9	ug/Kg
000057-11-4	Octadecanoic acid	110	J		12.7	ug/Kg
015594-90-8	1-Heneicosanol	300	J		13.9	ug/Kg

Raw Data: **BF141865.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
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
BF141865.D	1	03/05/25 09:40	03/06/25 13:31	PB166984

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\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Quant Time: Mar 06 15:52:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

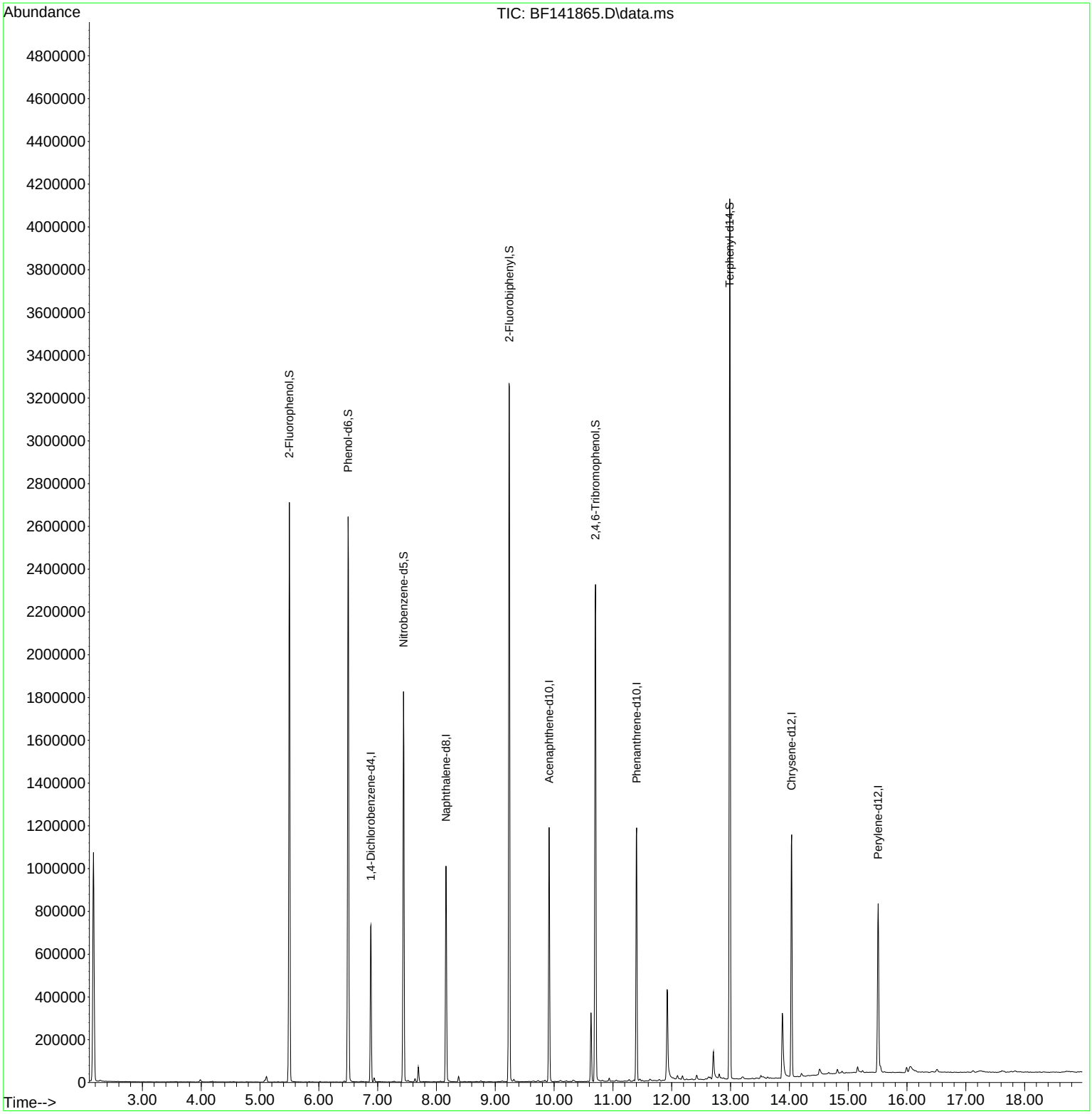
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	157980	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	615246	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	336755	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	605607	20.000	ng	0.00
76) Chrysene-d12	14.039	240	545094	20.000	ng	-0.01
86) Perylene-d12	15.509	264	450529	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1009938	102.093	ng	0.00
7) Phenol-d6	6.498	99	1263623	98.139	ng	-0.01
23) Nitrobenzene-d5	7.439	82	805343	83.670	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	396096	125.287	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	1478775	70.411	ng	0.00
79) Terphenyl-d14	12.986	244	2007767	59.593	ng	-0.01
Target Compounds						Qvalue

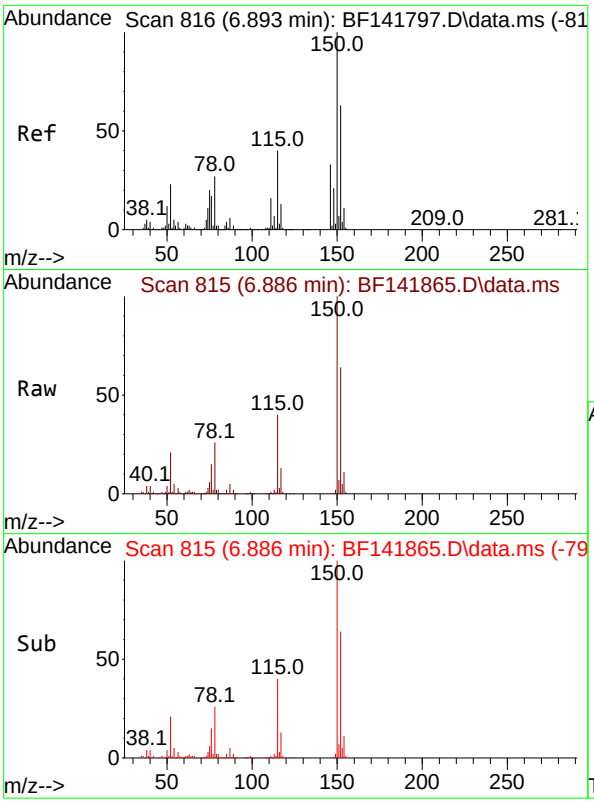
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Quant Time: Mar 06 15:52:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



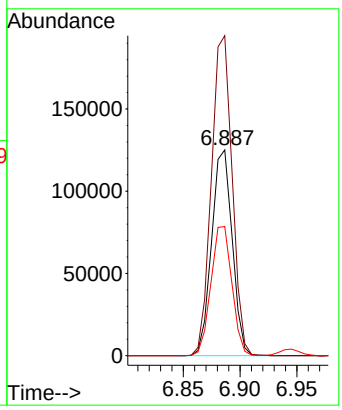


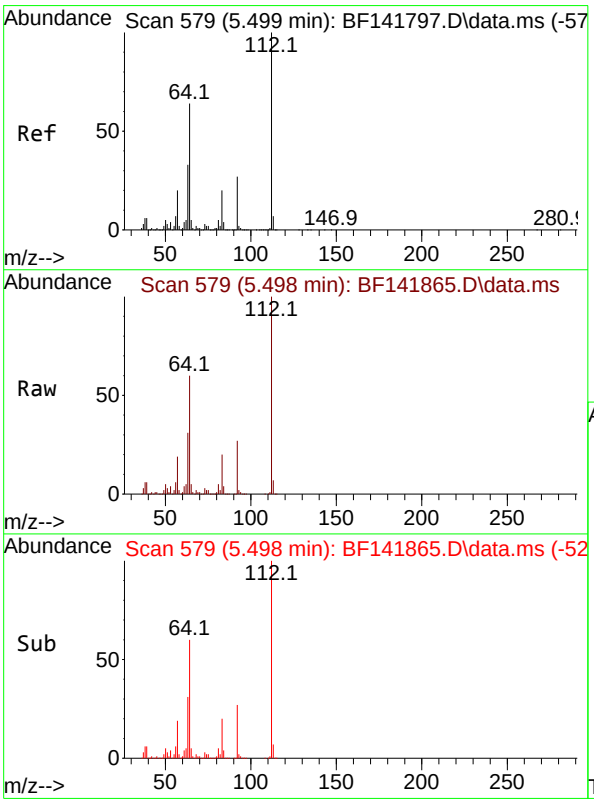
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Tgt Ion:152 Resp: 157980

Ion	Ratio	Lower	Upper
152	100		
150	155.5	127.5	191.3
115	62.8	51.4	77.2

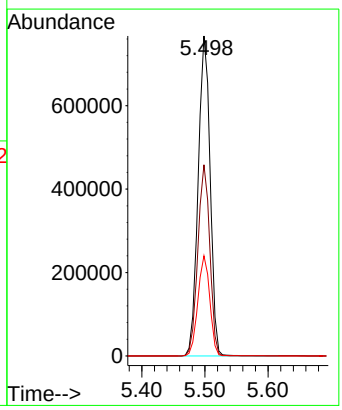


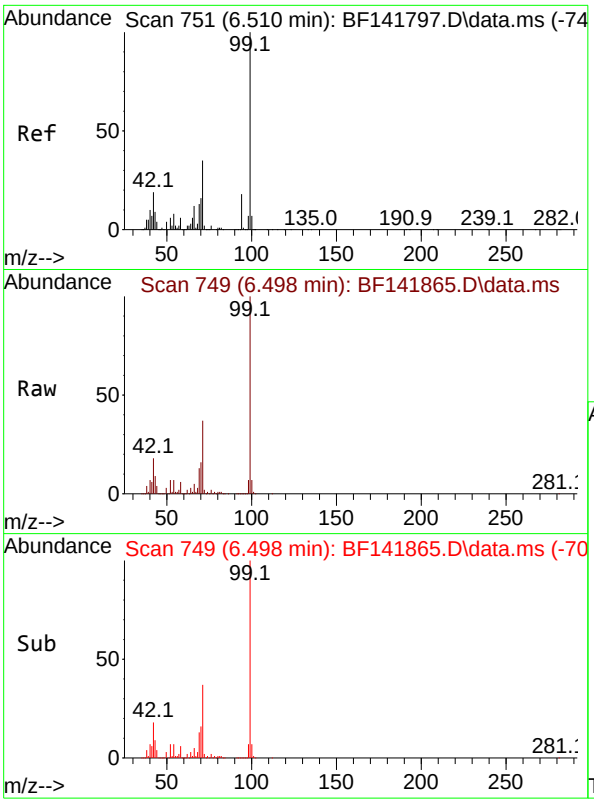


#5
2-Fluorophenol
Concen: 102.093 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Tgt Ion:112 Resp: 1009938

Ion	Ratio	Lower	Upper
112	100		
64	59.7	51.3	76.9
63	31.3	26.2	39.4



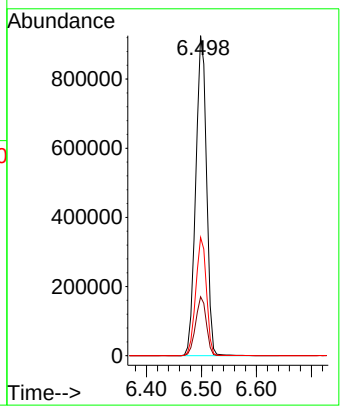


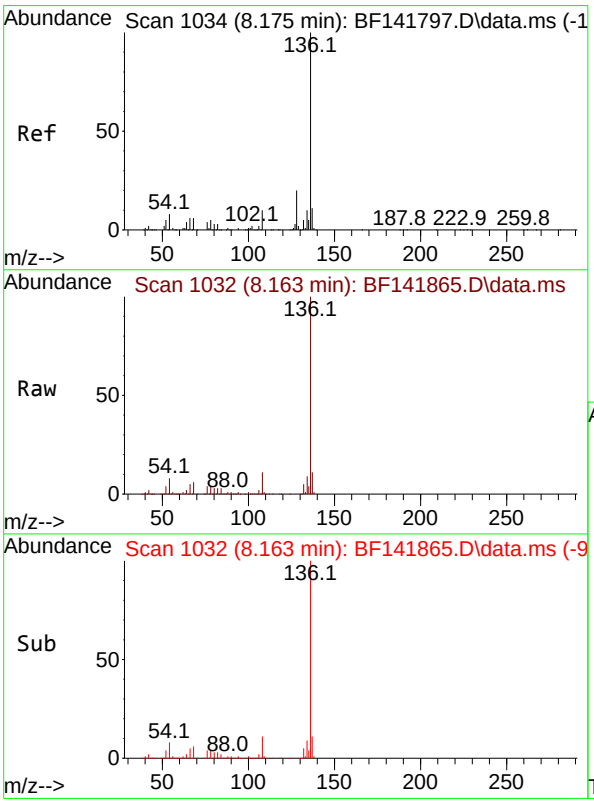
#7
Phenol-d6
Concen: 98.139 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Tgt Ion: 99 Resp: 1263623

Ion	Ratio	Lower	Upper
99	100		
42	18.4	15.2	22.8
71	37.0	28.2	42.2

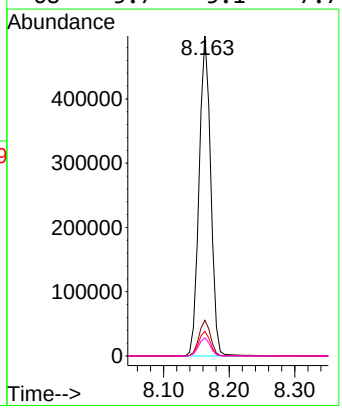


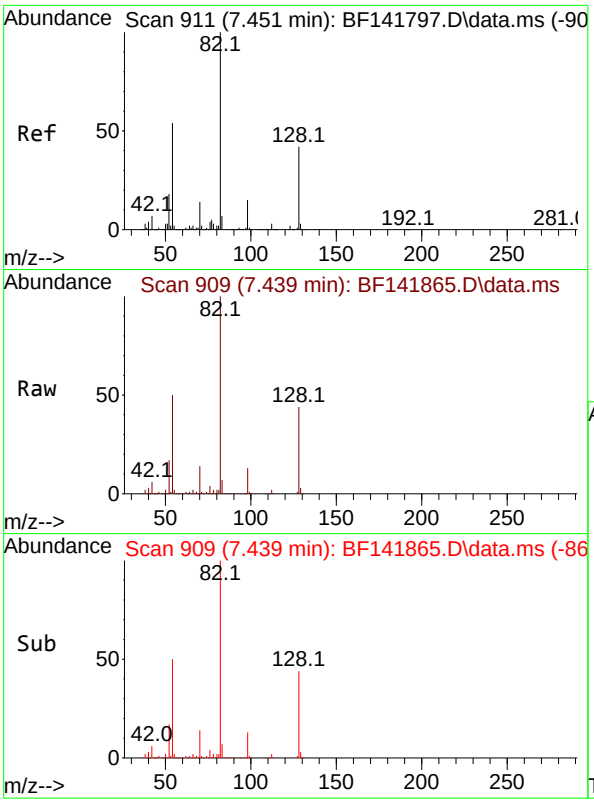


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Tgt Ion:136 Resp: 615246

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	7.7	6.9	10.3
68	5.7	5.1	7.7



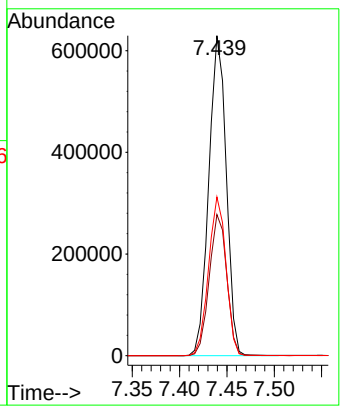


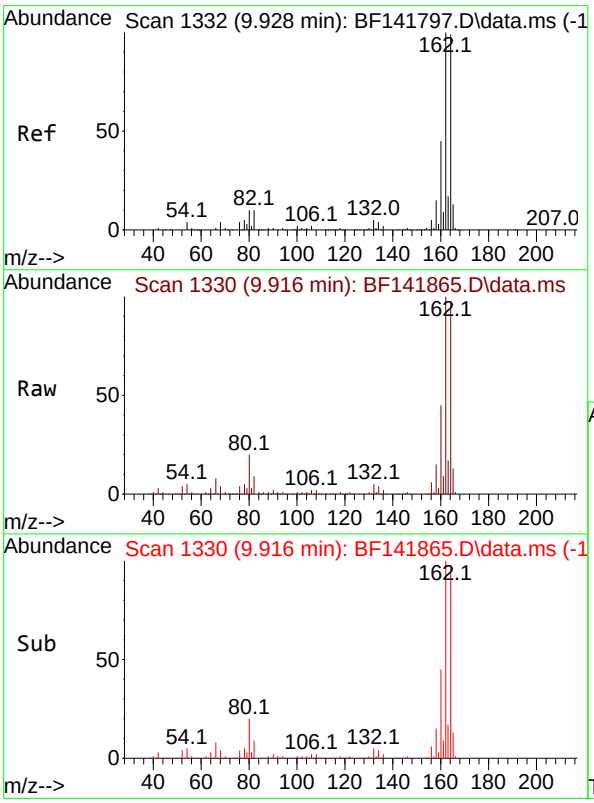
#23
Nitrobenzene-d5
Concen: 83.670 ng
RT: 7.439 min Scan# 9(
Delta R.T. -0.012 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Tgt Ion: 82 Resp: 805343

Ion	Ratio	Lower	Upper
82	100		
128	44.1	33.5	50.3
54	49.6	42.7	64.1

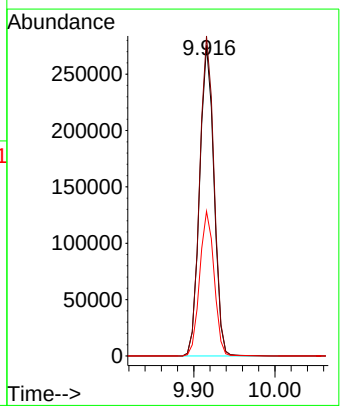


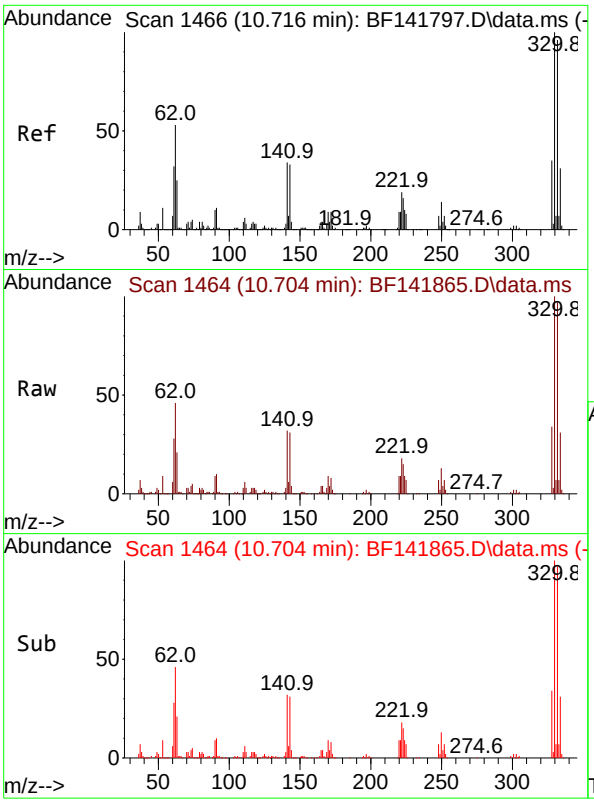


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Tgt Ion:164 Resp: 336755

Ion	Ratio	Lower	Upper
164	100		
162	103.1	80.6	120.8
160	46.6	36.3	54.5



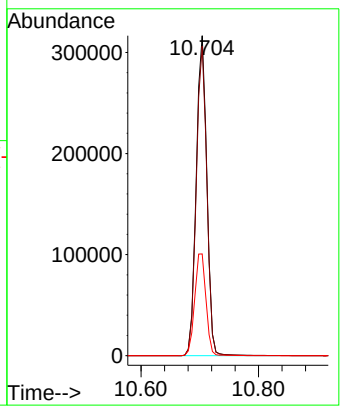


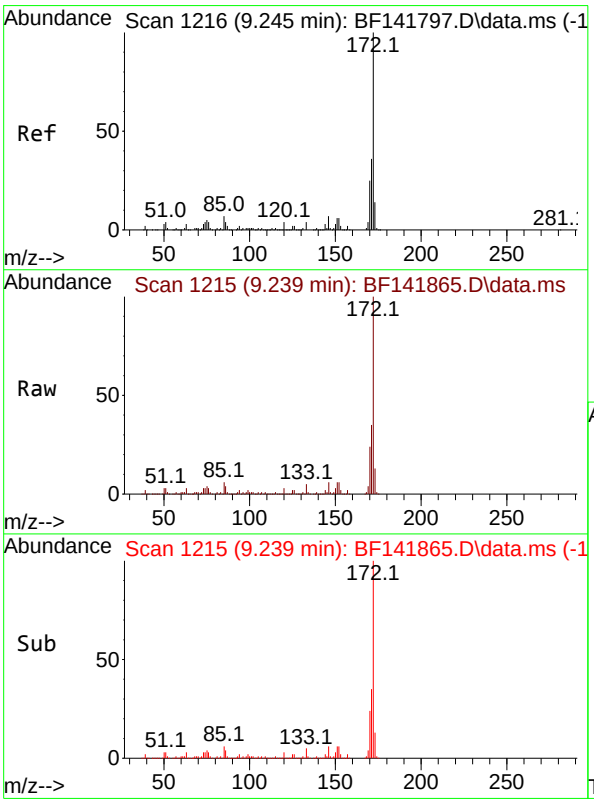
#42
2,4,6-Tribromophenol
Concen: 125.287 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Tgt Ion:330 Resp: 396096

Ion	Ratio	Lower	Upper
330	100		
332	96.6	76.6	115.0
141	33.9	29.0	43.4

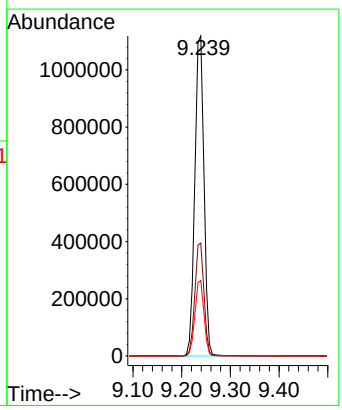


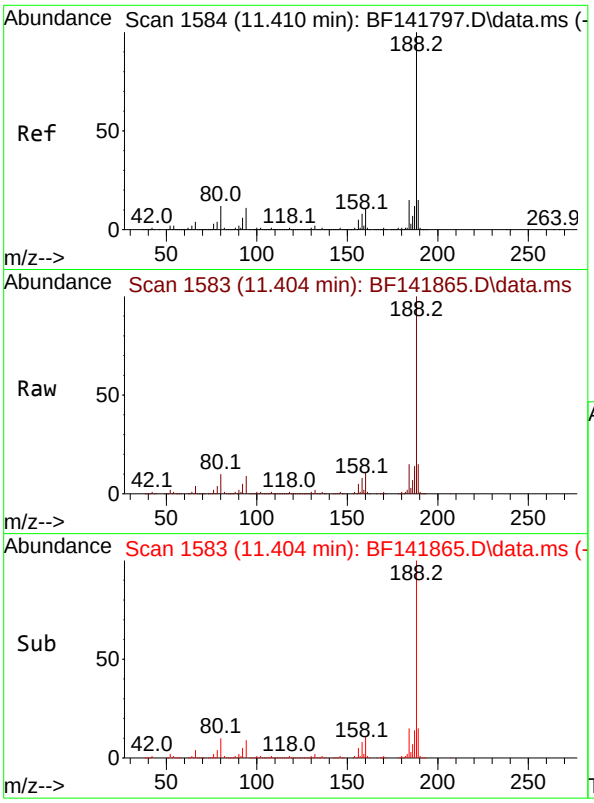


#45
2-Fluorobiphenyl
Concen: 70.411 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Tgt Ion:172 Resp: 1478775

Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.2	43.8
170	23.6	19.7	29.5



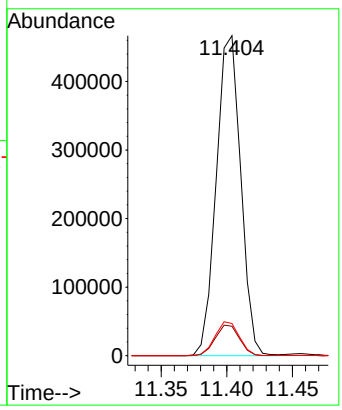


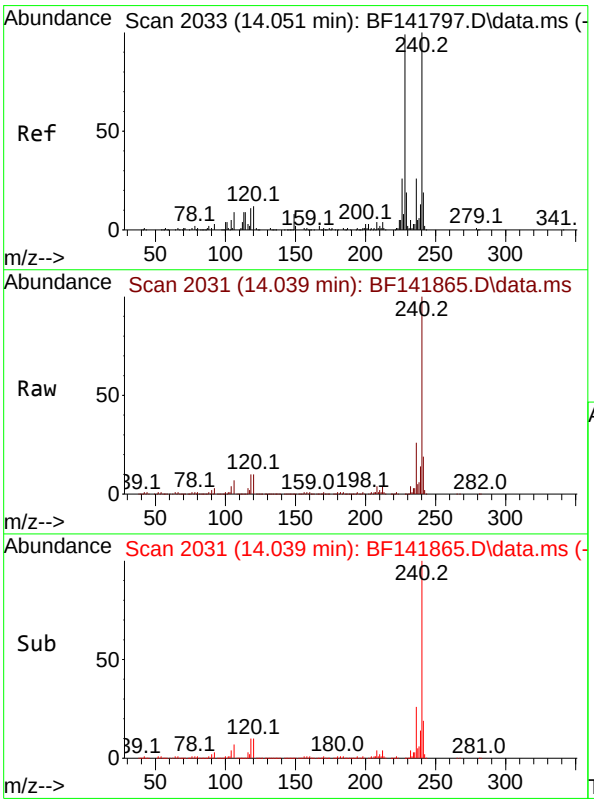
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Tgt Ion:188 Resp: 605607

Ion	Ratio	Lower	Upper
188	100		
94	9.2	8.9	13.3
80	10.1	9.7	14.5

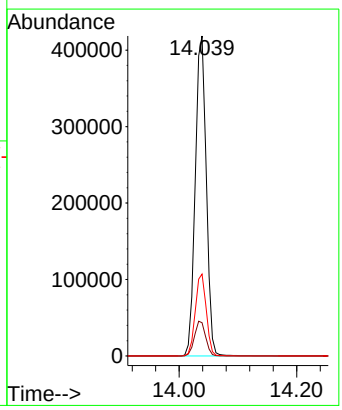


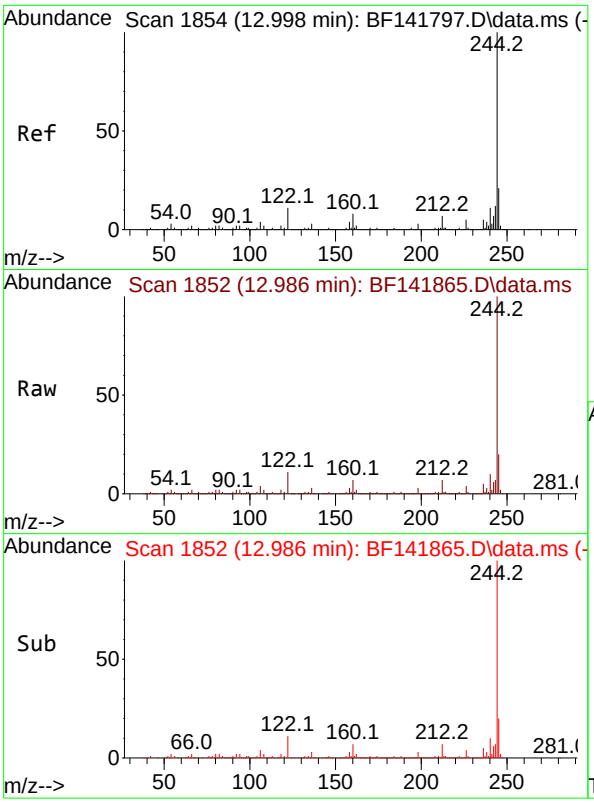


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Tgt Ion:240 Resp: 545094

Ion	Ratio	Lower	Upper
240	100		
120	10.4	9.7	14.5
236	25.6	21.0	31.4



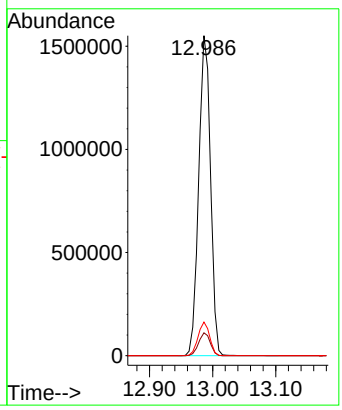


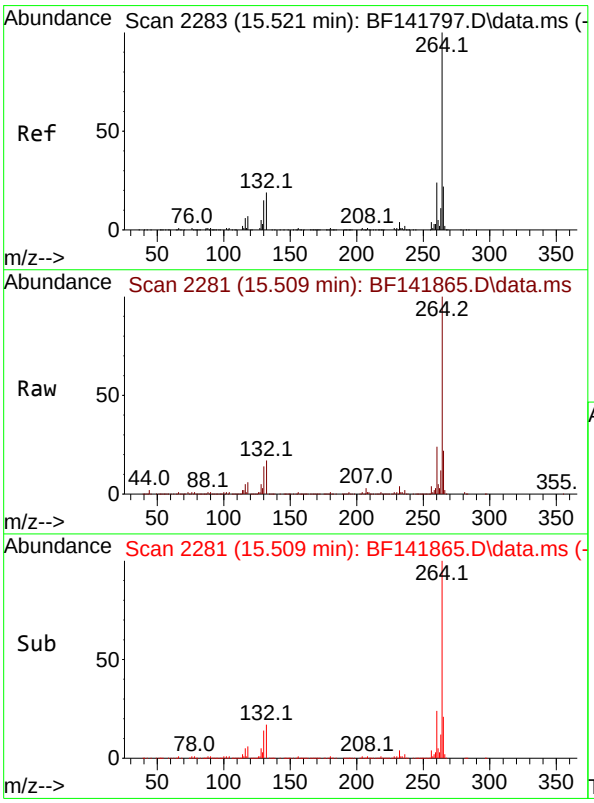
#79
Terphenyl-d14
Concen: 59.593 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Tgt Ion:244 Resp: 2007767

Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	10.5	9.0	13.6

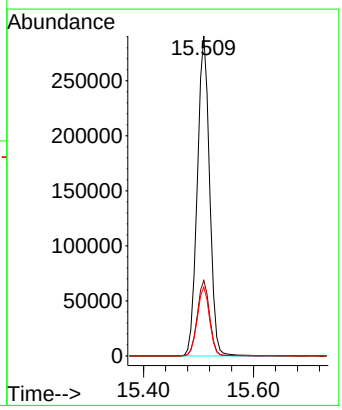




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Tgt Ion:264 Resp: 450529

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.9	28.3
265	21.5	17.4	26.0



Sample Results: **BF141865.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

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-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141865.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.169	5	13	25	rVB	1068969	1695361	32.04%	4.981%
2	5.110	502	513	519	rBV2	26284	53052	1.00%	0.156%
3	5.498	573	579	584	rBV	2710163	3545252	66.99%	10.416%
4	6.498	743	749	763	rBV	2642813	3654891	69.06%	10.738%
5	6.887	809	815	820	rBV	733662	942210	17.80%	2.768%
6	7.439	903	909	914	rBV	1826214	2340958	44.24%	6.878%
7	7.692	948	952	963	rVB	69475	85422	1.61%	0.251%
8	8.163	1027	1032	1048	rBV	1008753	1255348	23.72%	3.688%
9	9.233	1209	1214	1220	rBV	3265912	4324835	81.72%	12.706%
10	9.916	1325	1330	1341	rVB	1188807	1461530	27.62%	4.294%
11	10.627	1446	1451	1458	rVB	321100	396181	7.49%	1.164%
12	10.704	1458	1464	1478	rBV	2323486	3039249	57.43%	8.929%
13	11.404	1577	1583	1588	rBV	1182493	1538512	29.07%	4.520%
14	11.921	1664	1671	1687	rBV	424479	720083	13.61%	2.116%
15	12.710	1799	1805	1818	rBV	126617	225472	4.26%	0.662%
16	12.986	1846	1852	1857	rBV	4115056	5291973	100.00%	15.547%
17	13.880	1999	2004	2024	rBV	304333	602744	11.39%	1.771%
18	14.039	2025	2031	2041	rVB	1131735	1497767	28.30%	4.400%
19	14.515	2107	2112	2122	rBV4	25740	64690	1.22%	0.190%
20	15.509	2274	2281	2287	rBV	788597	1236893	23.37%	3.634%
21	16.056	2369	2374	2388	rBV5	20378	65108	1.23%	0.191%

Sum of corrected areas: 34037531

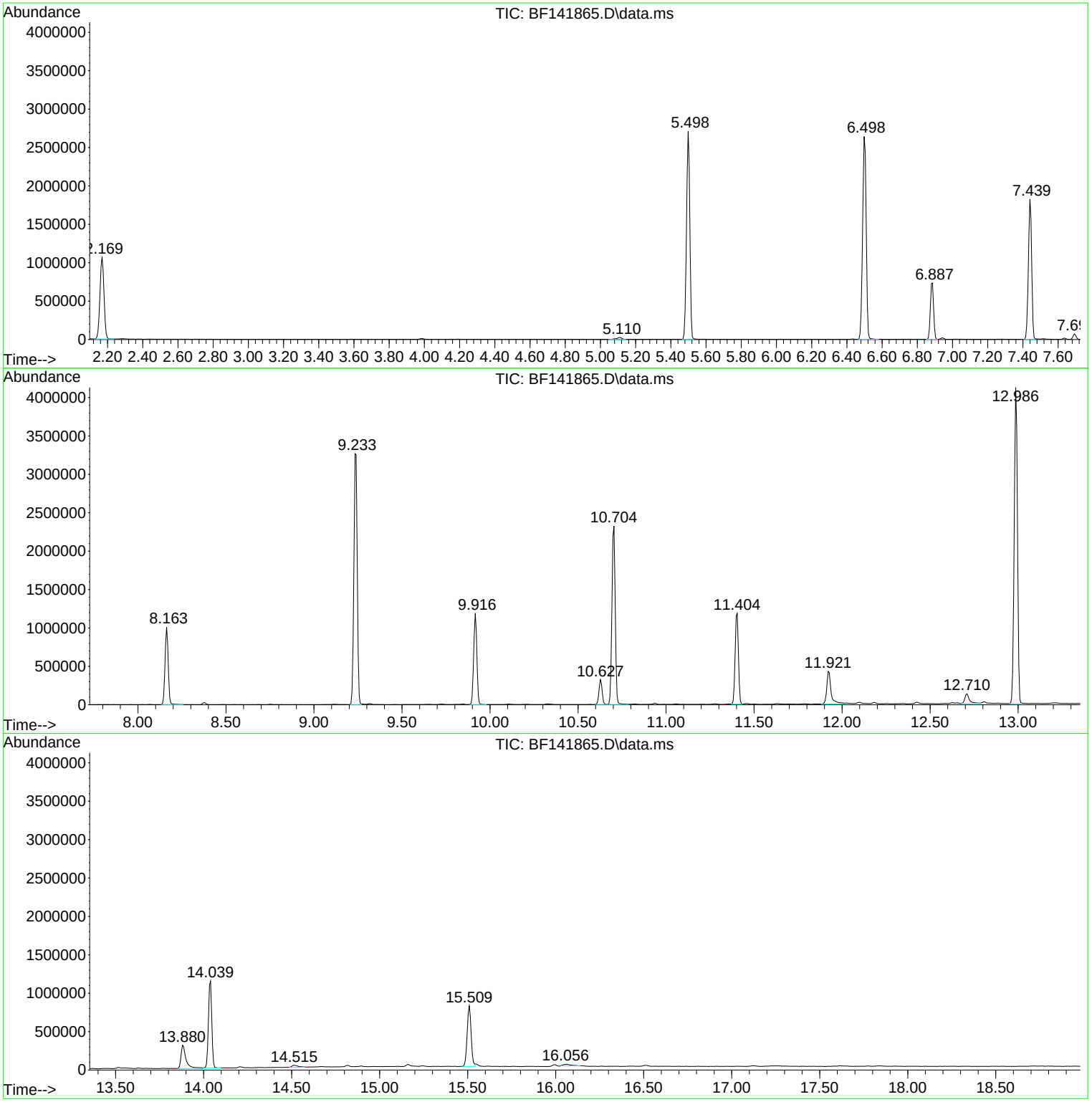
Sample Results: **BF141865.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

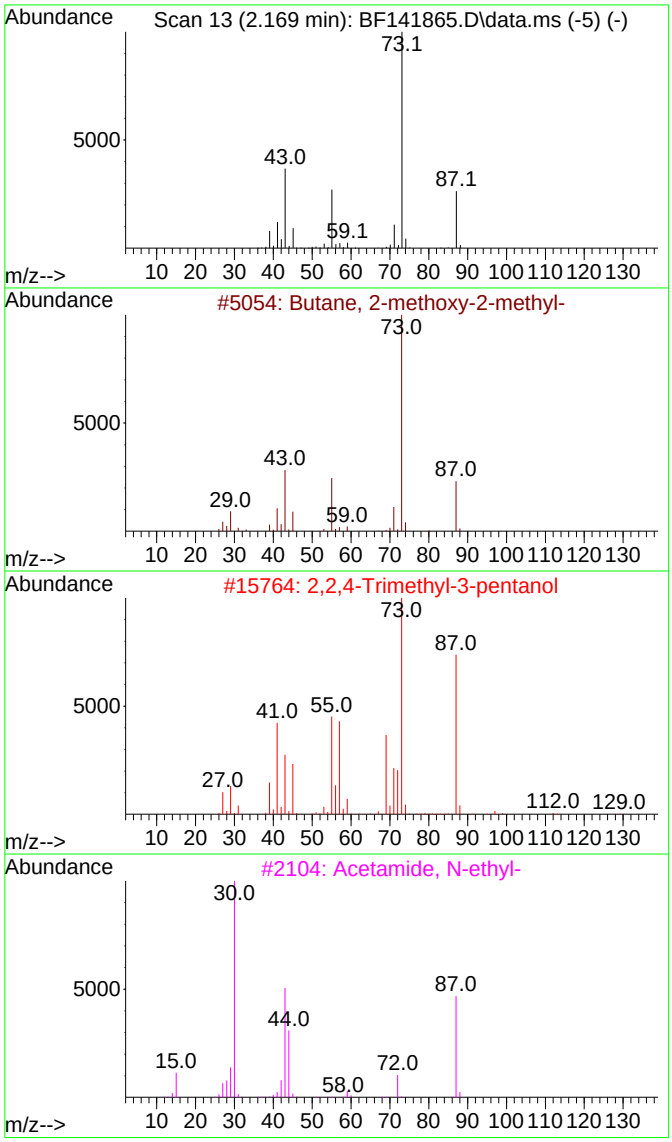
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

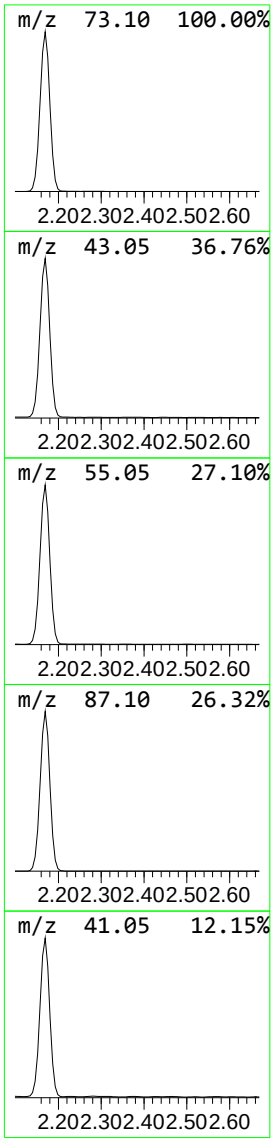
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.169	35.99 ng	1695360	1,4-Dichlorobenzene-d4	6.886

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
5	Silane, tetramethyl-	88	C4H12Si	000075-76-3	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

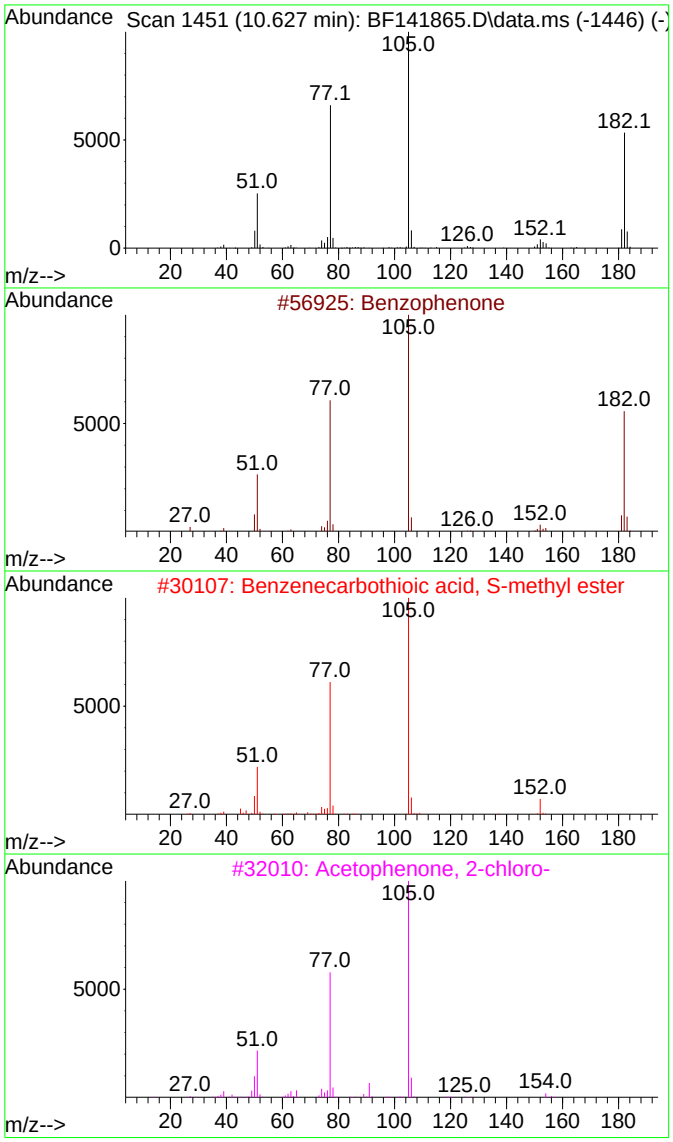
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

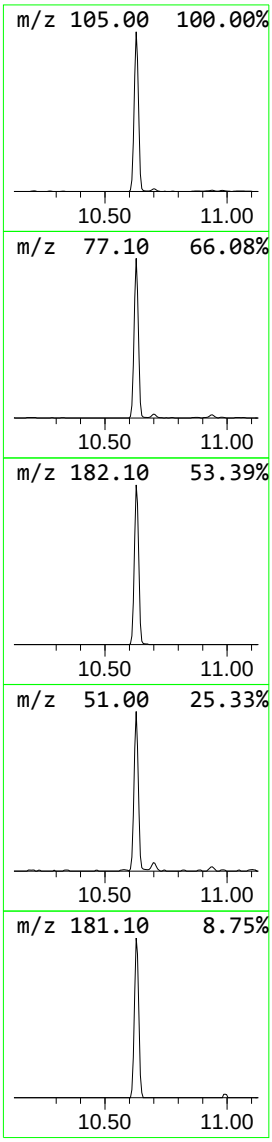
****

Peak Number 2 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.627	5.42 ng	396181	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4	Benzilamide	227	C14H13NO2	004746-87-6	47
5	Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

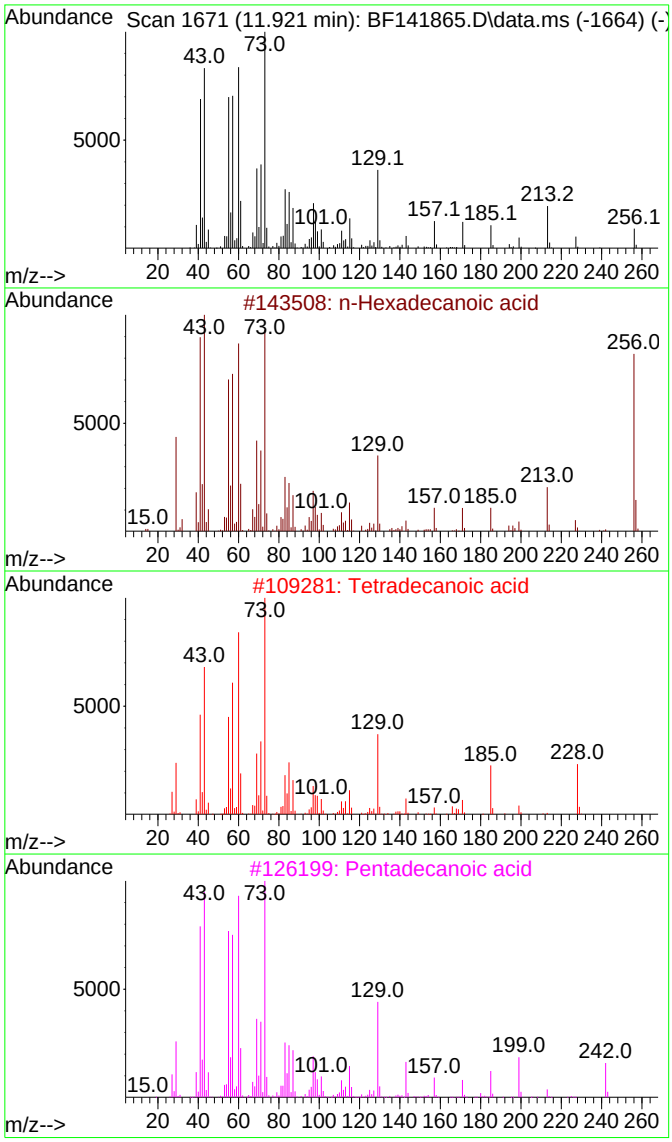
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

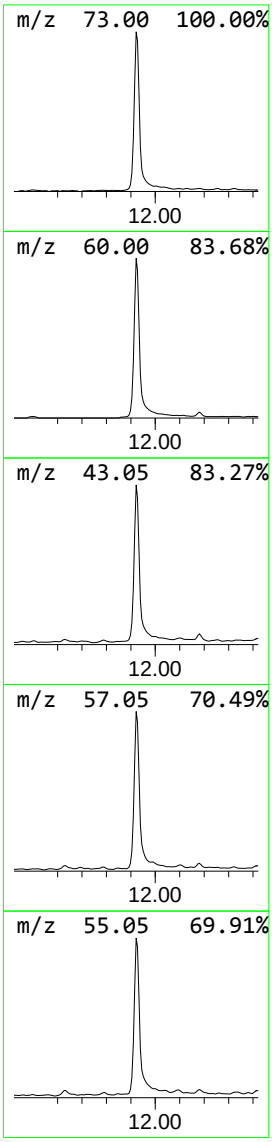
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.922	9.36 ng	720083	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
4	Tridecanoic acid	214	C13H26O2	000638-53-9	89
5	8-Methylnonanoic acid	172	C10H20O2	005963-14-4	55





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

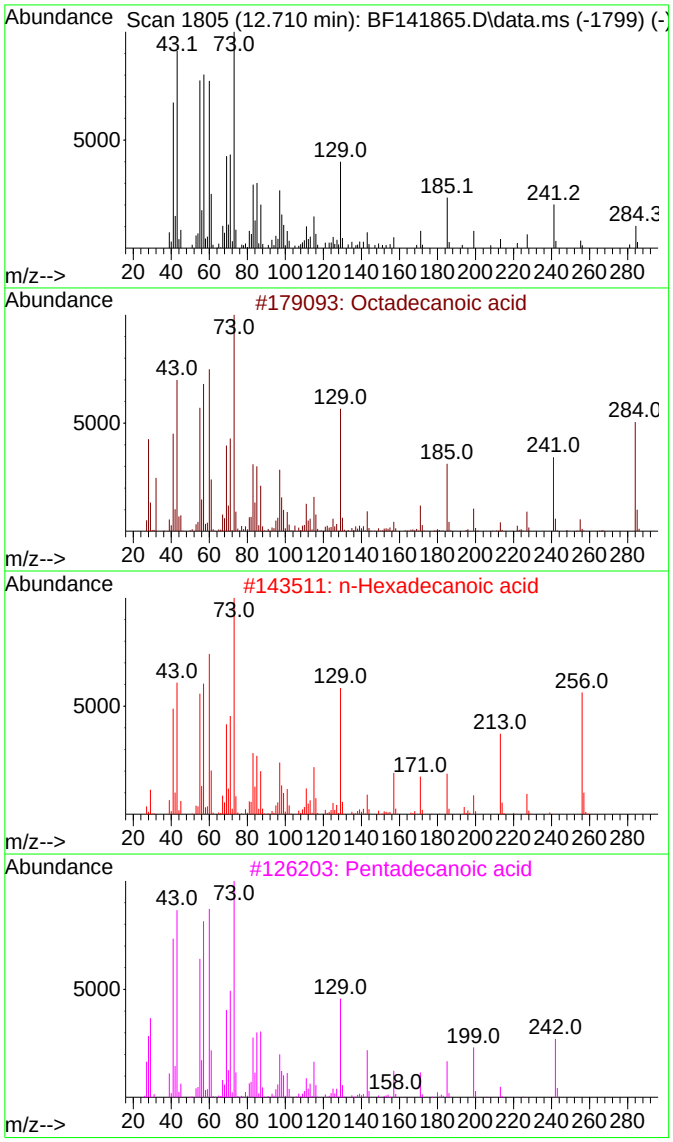
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

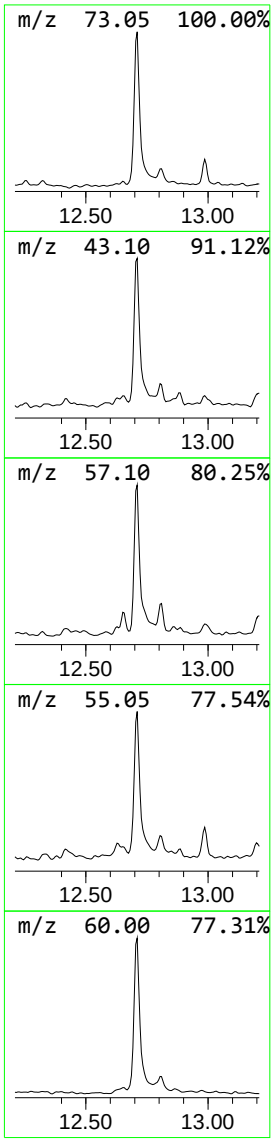
****

Peak Number 4 Octadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.710	2.93 ng	225472	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	90
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	89
4	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	87
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

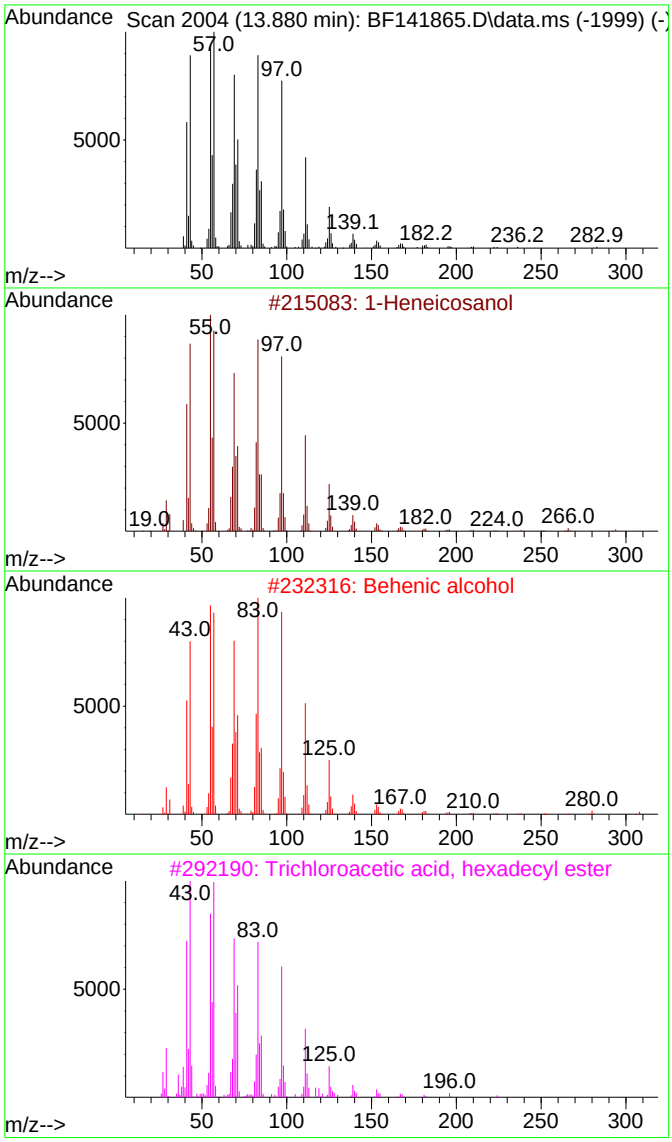
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

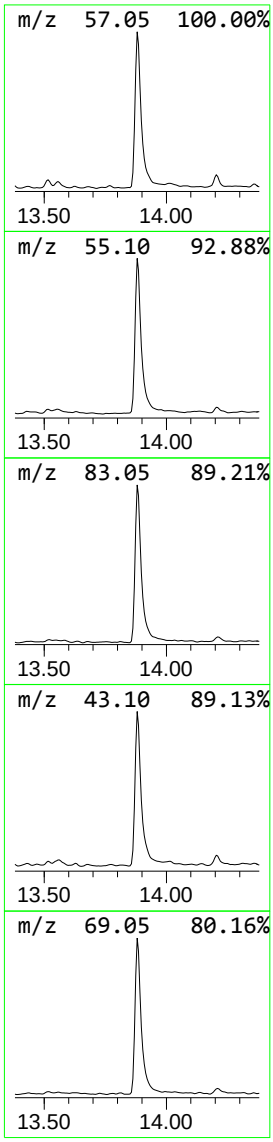
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 1-Heneicosanol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.880	8.05 ng	602744	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	95
2	Behenic alcohol	326	C22H46O	000661-19-8	95
3	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94
4	1-Tetracosene	336	C24H48	010192-32-2	94
5	2- Chloropropionic acid, octadec...	360	C21H41ClO2	088104-31-8	94





Sample Results: **BF141865.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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
Butane, 2-metho...	2.169	36.0	ng	1695360	1	6.886	942210	20.0
Benzophenone	10.627	5.4	ng	396181	3	9.916	1461530	20.0
n-Hexadecanoic ...	11.922	9.4	ng	720083	4	11.404	1538510	20.0
Octadecanoic acid	12.710	2.9	ng	225472	4	11.404	1538510	20.0
1-Heneicosanol	13.880	8.1	ng	602744	5	14.039	1497770	20.0

Raw Data: **BF141847.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.6
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
BF141847.D	1	03/05/25 09:40	03/05/25 16:50	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	360	ug/Kg
108-95-2	Phenol	91.4	U	91.4	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	92.3	U	92.3	190	ug/Kg
95-57-8	2-Chlorophenol	92.1	U	92.1	190	ug/Kg
95-48-7	2-Methylphenol	88.9	U	88.9	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	UQ	100	190	ug/Kg
98-86-2	Acetophenone	95.9	U	95.9	190	ug/Kg
65794-96-9	3+4-Methylphenols	88.0	U	88.0	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	44.5	U	44.5	88.2	ug/Kg
67-72-1	Hexachloroethane	91.6	U	91.6	190	ug/Kg
98-95-3	Nitrobenzene	100	U	100	190	ug/Kg
78-59-1	Isophorone	93.3	U	93.3	190	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	100	U	100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	94.6	U	94.6	190	ug/Kg
120-83-2	2,4-Dichlorophenol	83.3	U	83.3	190	ug/Kg
91-20-3	Naphthalene	91.1	U	91.1	190	ug/Kg
106-47-8	4-Chloroaniline	91.1	UQ	91.1	190	ug/Kg
87-68-3	Hexachlorobutadiene	91.9	U	91.9	190	ug/Kg
105-60-2	Caprolactam	95.7	U	95.7	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	85.5	U	85.5	190	ug/Kg
91-57-6	2-Methylnaphthalene	91.0	U	91.0	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170	U	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	78.8	U	78.8	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	81.6	U	81.6	190	ug/Kg
92-52-4	1,1-Biphenyl	96.4	U	96.4	190	ug/Kg
91-58-7	2-Chloronaphthalene	91.9	U	91.9	190	ug/Kg
88-74-4	2-Nitroaniline	100	U	100	190	ug/Kg
131-11-3	Dimethylphthalate	90.1	U	90.1	190	ug/Kg

Raw Data: **BF141847.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.6
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
BF141847.D	1	03/05/25 09:40	03/05/25 16:50	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	95.4	U	95.4	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	91.8	U	91.8	190	ug/Kg
99-09-2	3-Nitroaniline	98.4	UQ	98.4	190	ug/Kg
83-32-9	Acenaphthene	89.5	U	89.5	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	360	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	360	ug/Kg
132-64-9	Dibenzofuran	93.1	U	93.1	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	95.1	U	95.1	190	ug/Kg
84-66-2	Diethylphthalate	88.4	U	88.4	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	94.4	U	94.4	190	ug/Kg
86-73-7	Fluorene	94.3	U	94.3	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	90.0	U	90.0	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	87.0	U	87.0	190	ug/Kg
118-74-1	Hexachlorobenzene	93.8	U	93.8	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	85.3	U	85.3	360	ug/Kg
85-01-8	Phenanthrene	92.7	U	92.7	190	ug/Kg
120-12-7	Anthracene	93.1	U	93.1	190	ug/Kg
86-74-8	Carbazole	88.6	U	88.6	190	ug/Kg
84-74-2	Di-n-butylphthalate	93.0	U	93.0	190	ug/Kg
206-44-0	Fluoranthene	90.1	U	90.1	190	ug/Kg
129-00-0	Pyrene	91.6	U	91.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	360	ug/Kg
56-55-3	Benzo(a)anthracene	89.0	U	89.0	190	ug/Kg
218-01-9	Chrysene	87.7	U	87.7	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	89.5	U	89.5	190	ug/Kg

Raw Data: **BF141847.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.6
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
BF141847.D	1	03/05/25 09:40	03/05/25 16:50	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	91.1	U	91.1	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	86.1	U	86.1	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	89.6	U	89.6	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	88.4	U	88.4	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	95.7	U	95.7	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	82.4	U	82.4	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	99.4		30 (18) - 130 (112)	66%	SPK: 150
13127-88-3	Phenol-d6	94.6		30 (15) - 130 (107)	63%	SPK: 150
4165-60-0	Nitrobenzene-d5	81.2		30 (18) - 130 (107)	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.8		30 (20) - 130 (109)	70%	SPK: 100
118-79-6	2,4,6-Tribromophenol	96.2		30 (10) - 130 (116)	64%	SPK: 150
1718-51-0	Terphenyl-d14	47.6		30 (10) - 130 (105)	48%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	181000	6.887			
1146-65-2	Naphthalene-d8	686000	8.163			
15067-26-2	Acenaphthene-d10	338000	9.916			
1517-22-2	Phenanthrene-d10	508000	11.404			
1719-03-5	Chrysene-d12	420000	14.033			
1520-96-3	Perylene-d12	463000	15.509			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	1200	JB		2.17	ug/Kg
000119-61-9	Benzophenone	140	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	210	J		11.9	ug/Kg
015594-90-8	1-Heneicosanol	170	J		13.9	ug/Kg

Alliance TECHNICAL GROUP

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.6
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
BF141847.D	1	03/05/25 09:40	03/05/25 16:50	PB166984

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: **BF141847.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Quant Time: Mar 05 17:10:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

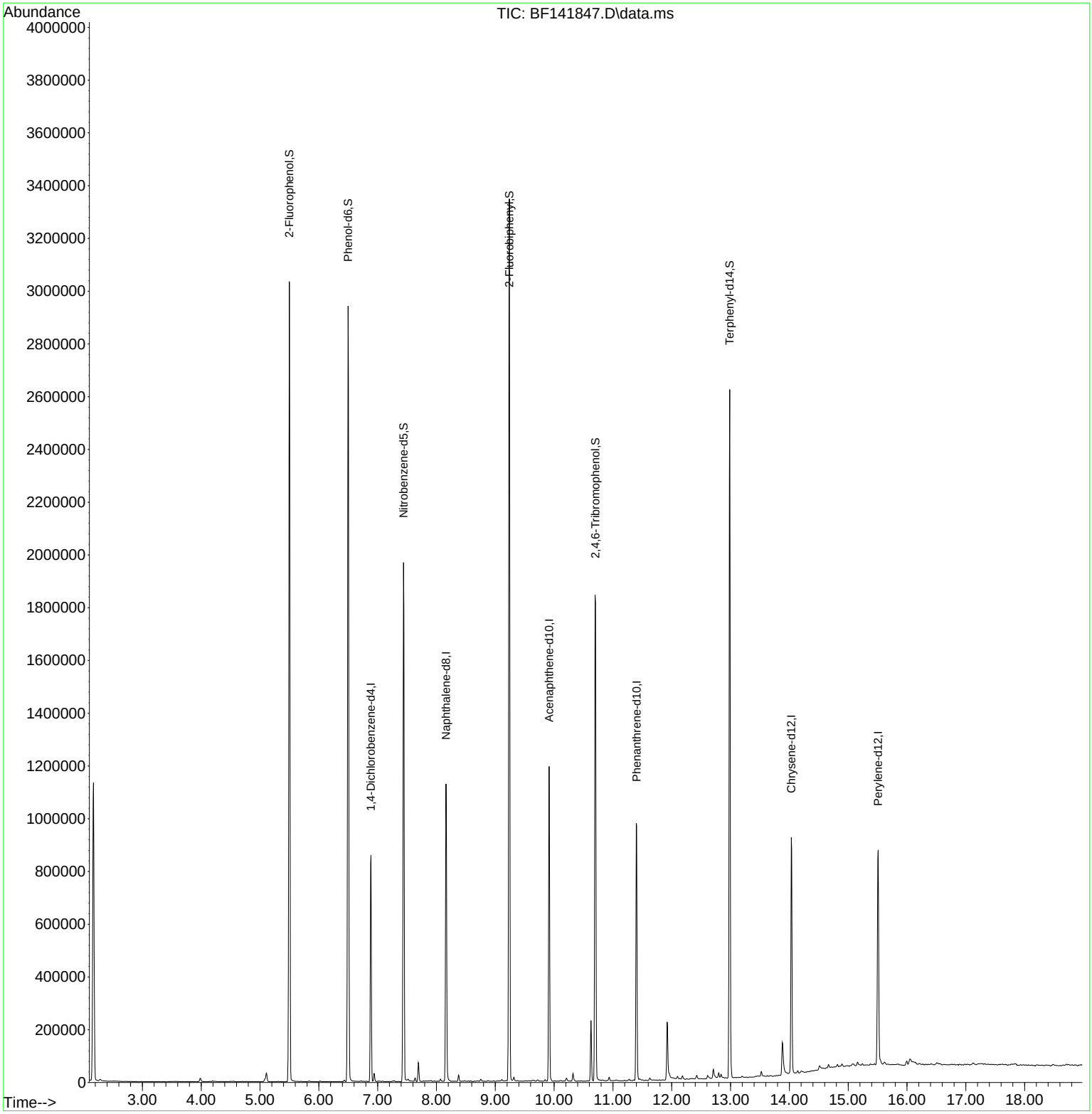
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	181202	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	685861	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	338318	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	507852	20.000	ng	0.00
76) Chrysene-d12	14.033	240	419765	20.000	ng	-0.02
86) Perylene-d12	15.509	264	463489	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1128338	99.444	ng	0.00
7) Phenol-d6	6.498	99	1397485	94.626	ng	-0.01
23) Nitrobenzene-d5	7.439	82	871593	81.230	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	305614	96.220	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	1472330	69.781	ng	0.00
79) Terphenyl-d14	12.986	244	1233851	47.557	ng	-0.01
Target Compounds						Qvalue

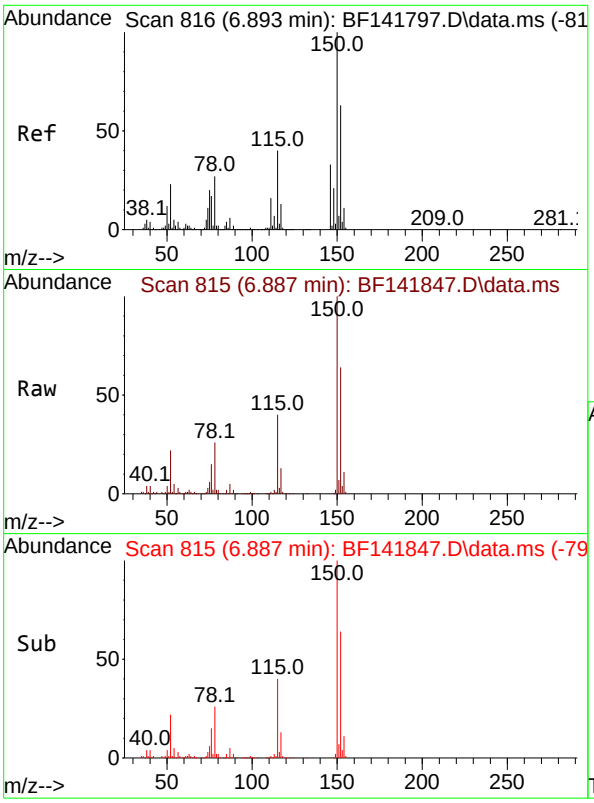
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Quant Time: Mar 05 17:10:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



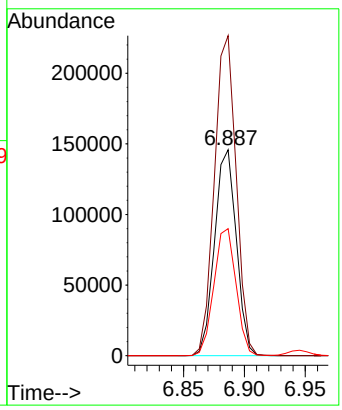


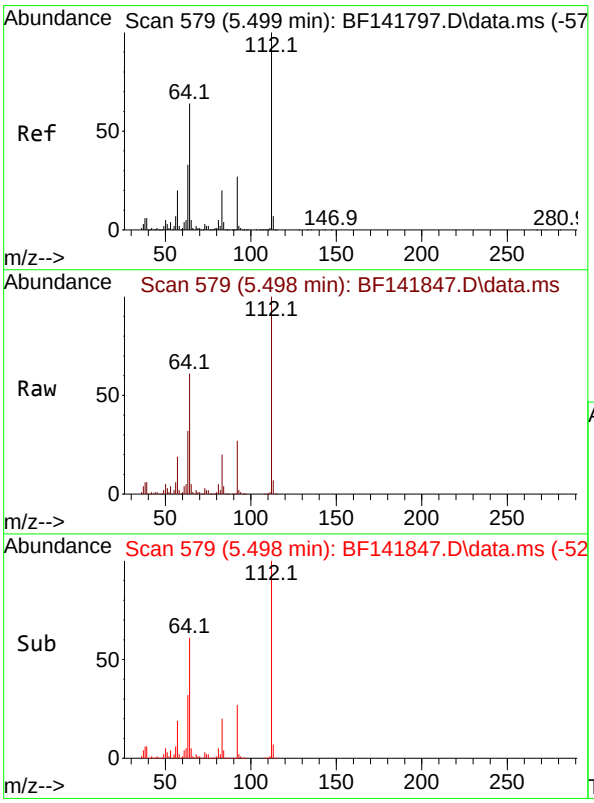
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Tgt Ion:152 Resp: 181202

Ion	Ratio	Lower	Upper
152	100		
150	155.4	127.5	191.3
115	61.7	51.4	77.2

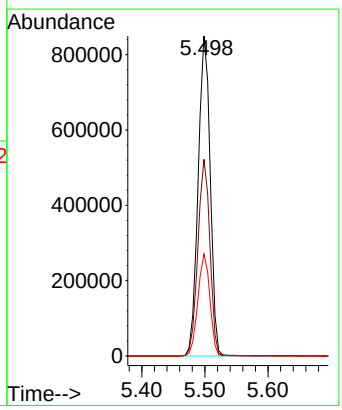


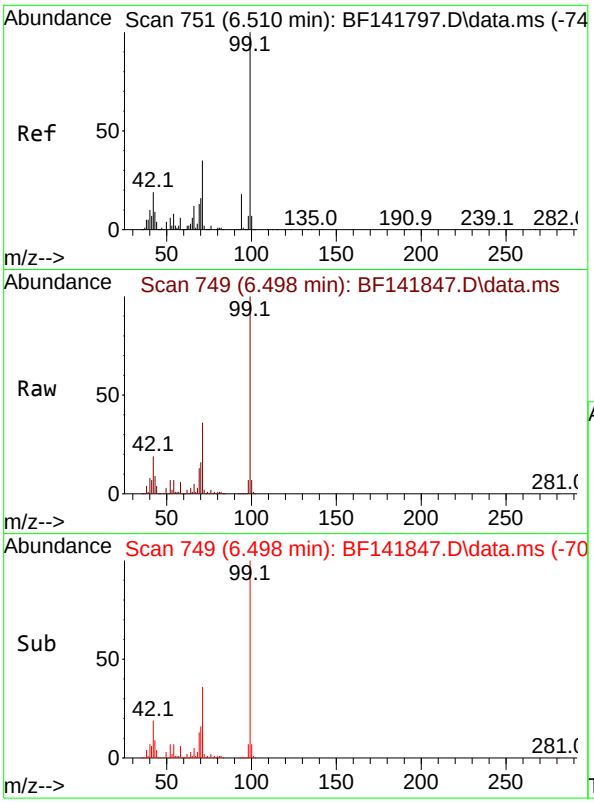


#5
2-Fluorophenol
Concen: 99.444 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Tgt Ion:112 Resp: 1128338

Ion	Ratio	Lower	Upper
112	100		
64	61.4	51.3	76.9
63	31.9	26.2	39.4



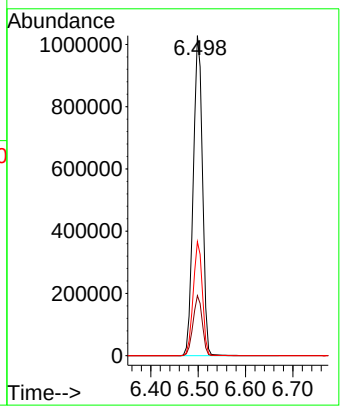


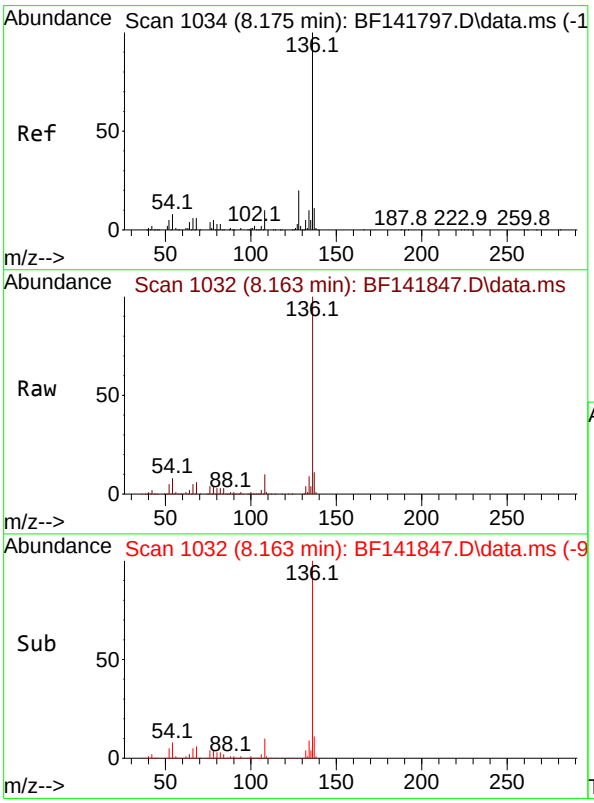
#7
Phenol-d6
Concen: 94.626 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Tgt Ion: 99 Resp: 1397485

Ion	Ratio	Lower	Upper
99	100		
42	18.7	15.2	22.8
71	35.6	28.2	42.2

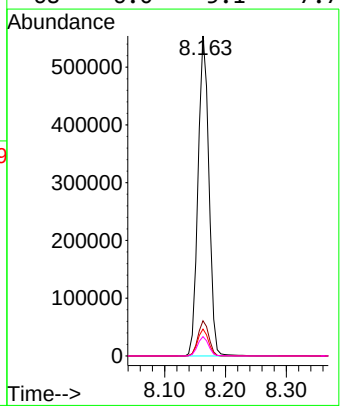


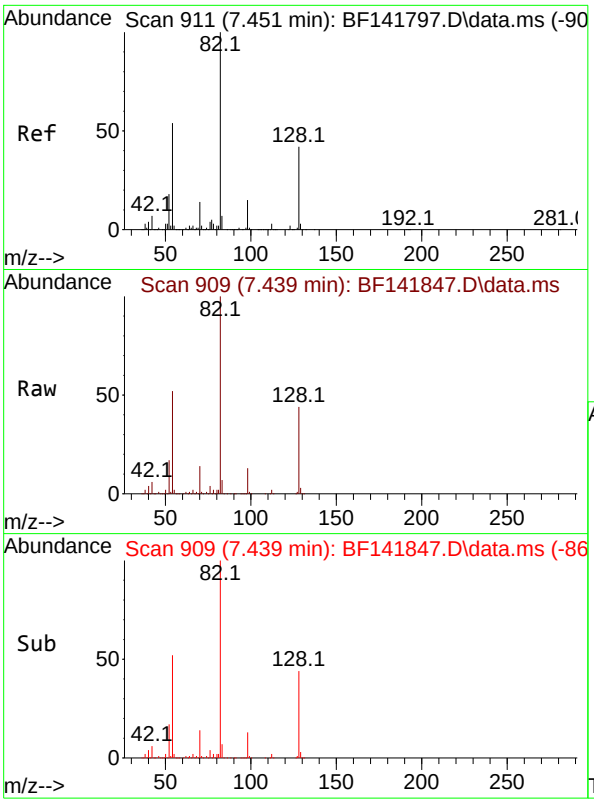


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Tgt Ion:136 Resp: 685861

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	8.4	6.9	10.3
68	6.0	5.1	7.7



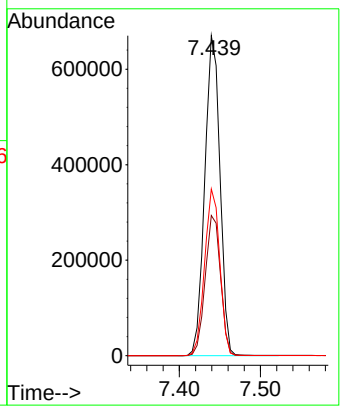


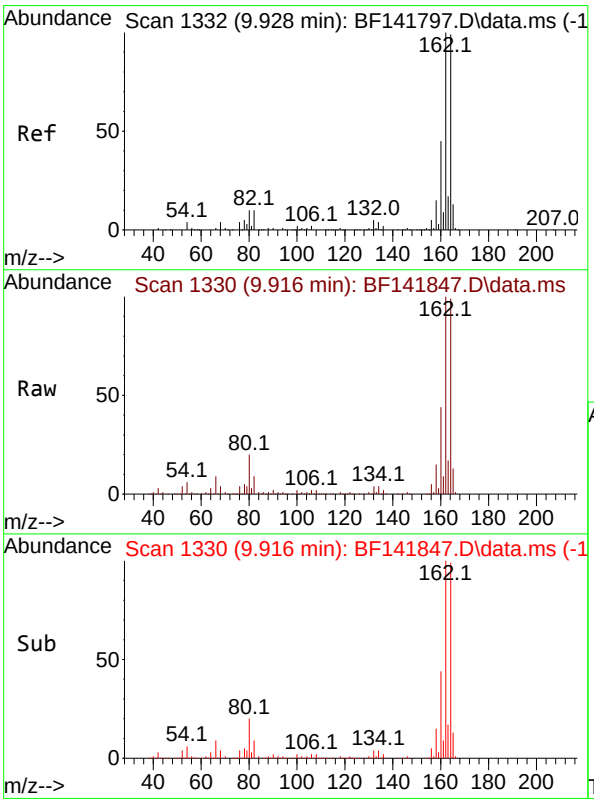
#23
Nitrobenzene-d5
Concen: 81.230 ng
RT: 7.439 min Scan# 9(
Delta R.T. -0.012 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Tgt Ion: 82 Resp: 871593

Ion	Ratio	Lower	Upper
82	100		
128	43.8	33.5	50.3
54	52.1	42.7	64.1

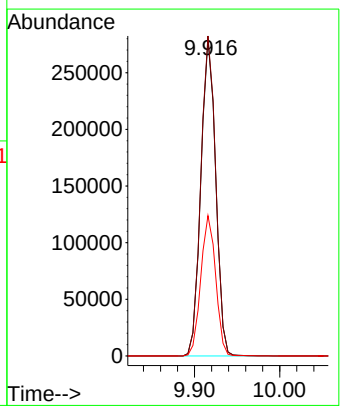


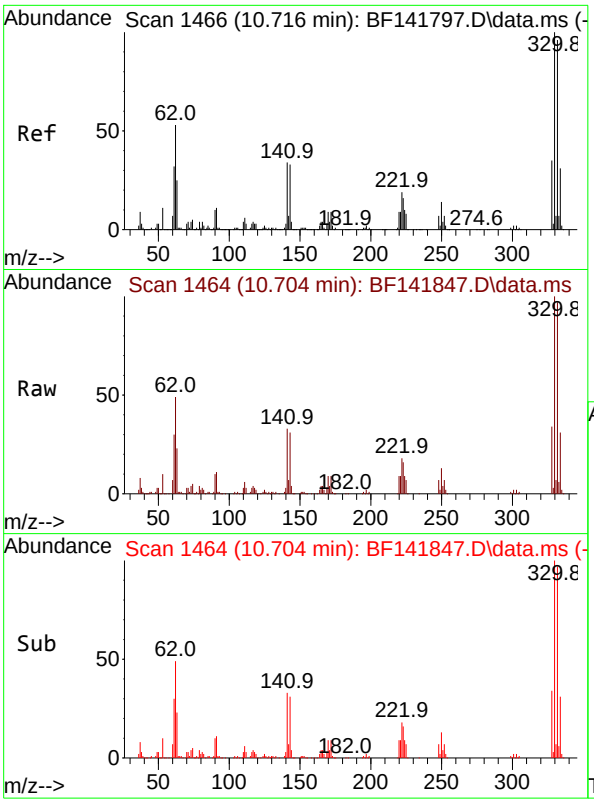


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Tgt Ion:164 Resp: 338318

Ion	Ratio	Lower	Upper
164	100		
162	101.1	80.6	120.8
160	44.3	36.3	54.5



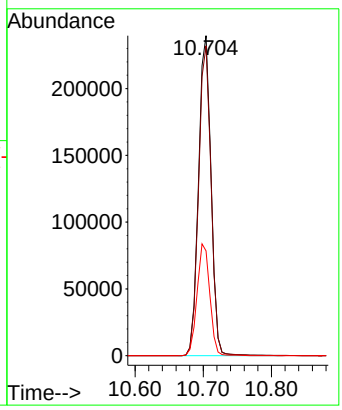


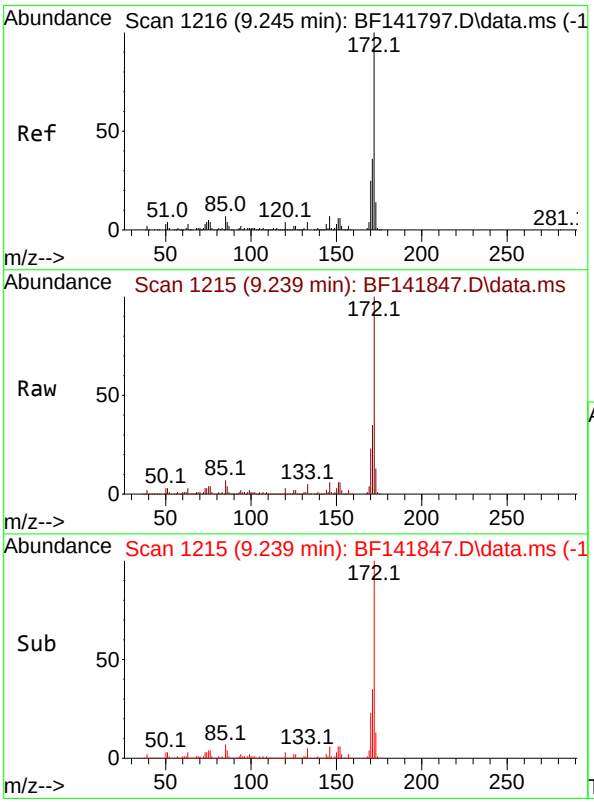
#42
2,4,6-Tribromophenol
Concen: 96.220 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Tgt Ion:330 Resp: 305614

Ion	Ratio	Lower	Upper
330	100		
332	96.8	76.6	115.0
141	35.5	29.0	43.4

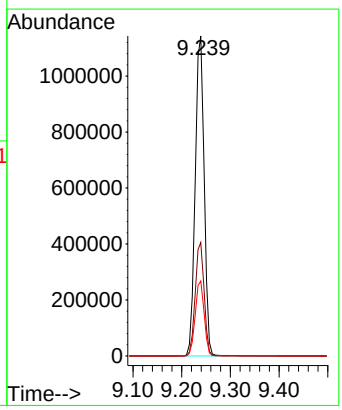


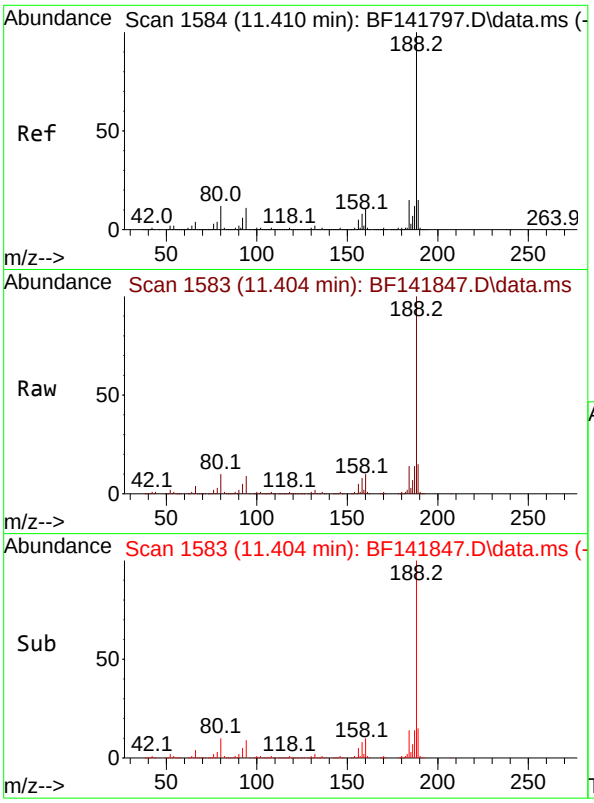


#45
2-Fluorobiphenyl
Concen: 69.781 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Tgt Ion:172 Resp: 1472330

Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.2	43.8
170	23.4	19.7	29.5



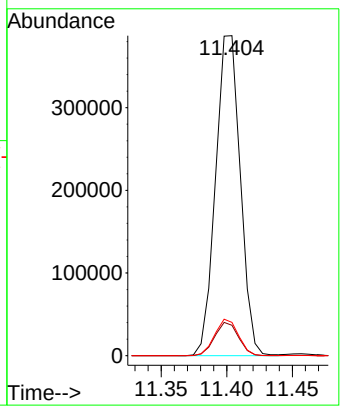


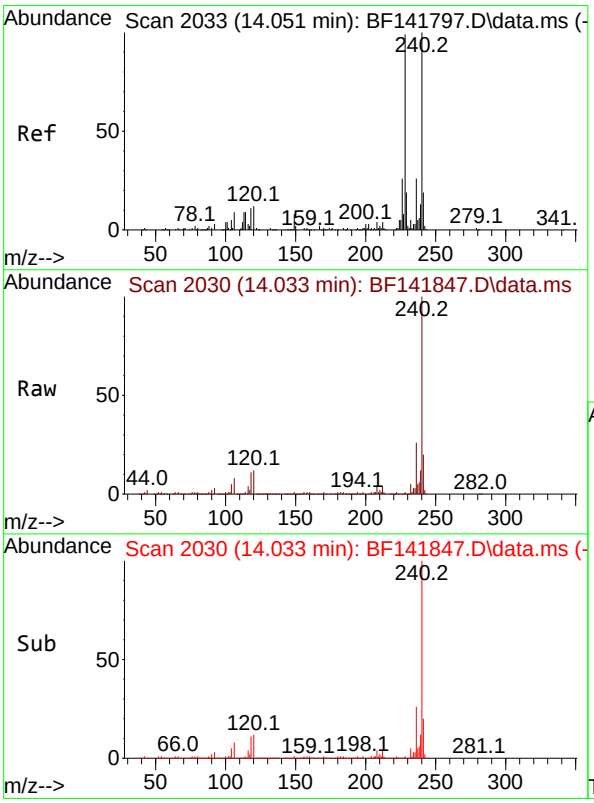
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Tgt Ion:188 Resp: 507852

Ion	Ratio	Lower	Upper
188	100		
94	9.5	8.9	13.3
80	10.4	9.7	14.5

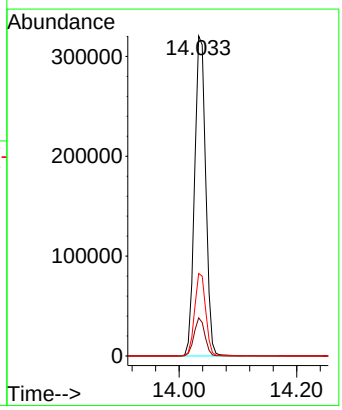


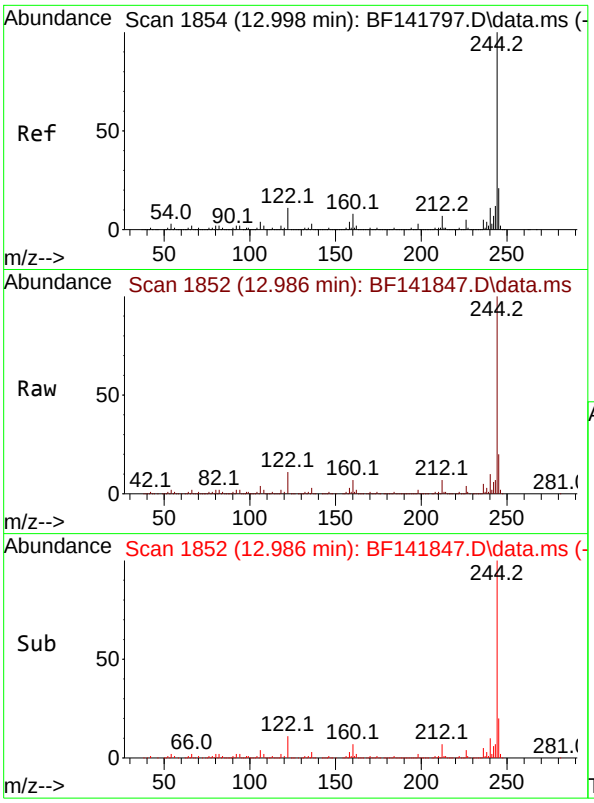


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.018 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Tgt Ion:240 Resp: 419765

Ion	Ratio	Lower	Upper
240	100		
120	11.9	9.7	14.5
236	25.8	21.0	31.4



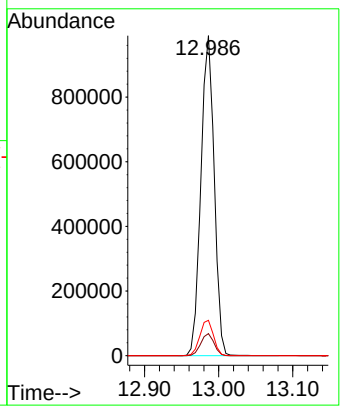


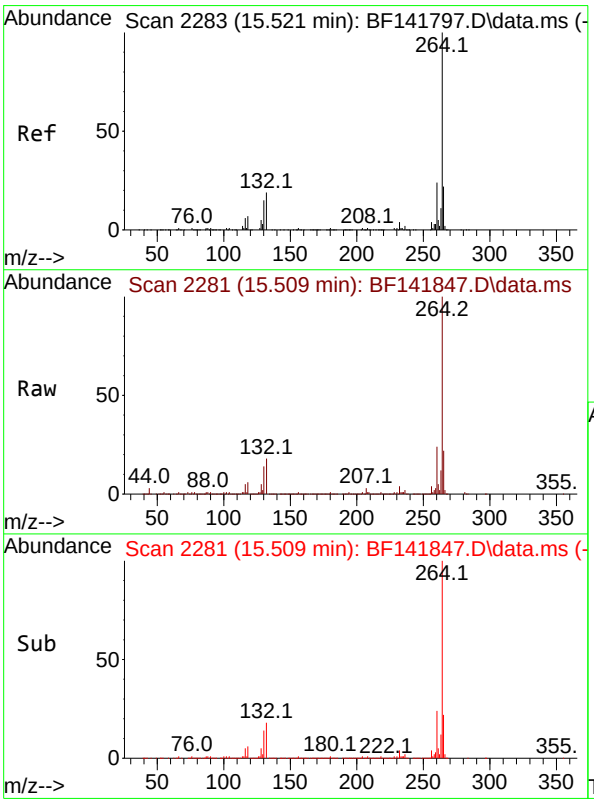
#79
Terphenyl-d14
Concen: 47.557 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Tgt Ion:244 Resp: 1233851

Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.0	9.0
122	11.1	9.0	13.6

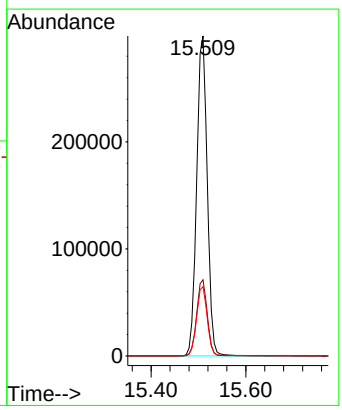




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Tgt Ion:264 Resp: 463489

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.9	28.3
265	21.7	17.4	26.0



Sample Results: **BF141847.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

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-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141847.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.169	5	13	27	rVB	1129590	1806638	41.77%	5.755%
2	5.110	502	513	523	rVB2	33009	68671	1.59%	0.219%
3	5.498	573	579	584	rBV	3033031	3989276	92.23%	12.708%
4	6.498	743	749	762	rBV	2939869	4050365	93.64%	12.903%
5	6.887	809	815	820	rBV	857134	1084610	25.08%	3.455%
6	7.439	903	909	914	rBV	1968396	2559468	59.18%	8.154%
7	7.692	947	952	964	rBV	70869	90277	2.09%	0.288%
8	8.163	1027	1032	1048	rVB	1127831	1419371	32.82%	4.522%
9	9.239	1209	1215	1220	rBV	3343526	4325237	100.00%	13.779%
10	9.916	1325	1330	1335	rBV	1191968	1445006	33.41%	4.603%
11	10.627	1446	1451	1458	rBV	228817	279175	6.45%	0.889%
12	10.698	1458	1463	1474	rBV	1841675	2449564	56.63%	7.803%
13	11.398	1577	1582	1590	rBV	974752	1289131	29.80%	4.107%
14	11.921	1665	1671	1685	rBV2	220665	365902	8.46%	1.166%
15	12.710	1800	1805	1814	rBV2	34320	61818	1.43%	0.197%
16	12.986	1846	1852	1863	rBV	2610815	3331388	77.02%	10.613%
17	13.880	1999	2004	2021	rBV	124214	269448	6.23%	0.858%
18	14.033	2024	2030	2041	rVB	893997	1200346	27.75%	3.824%
19	15.509	2274	2281	2294	rBV	814257	1305310	30.18%	4.158%

Sum of corrected areas: 31391001

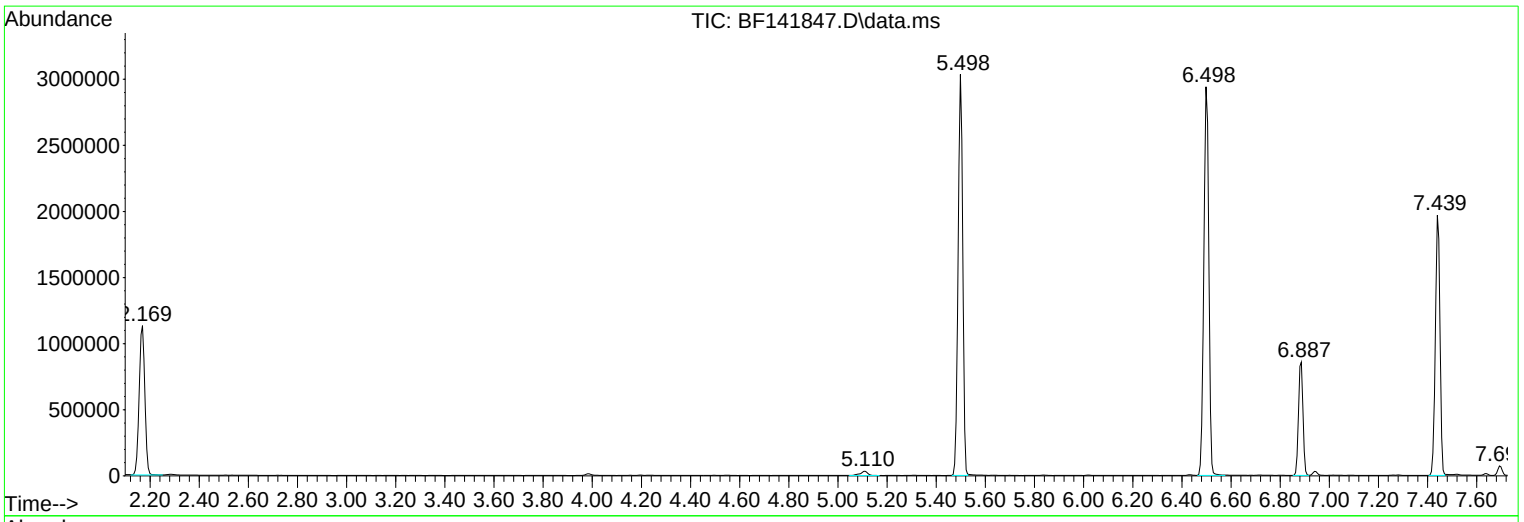
Sample Results: **BF141847.D**

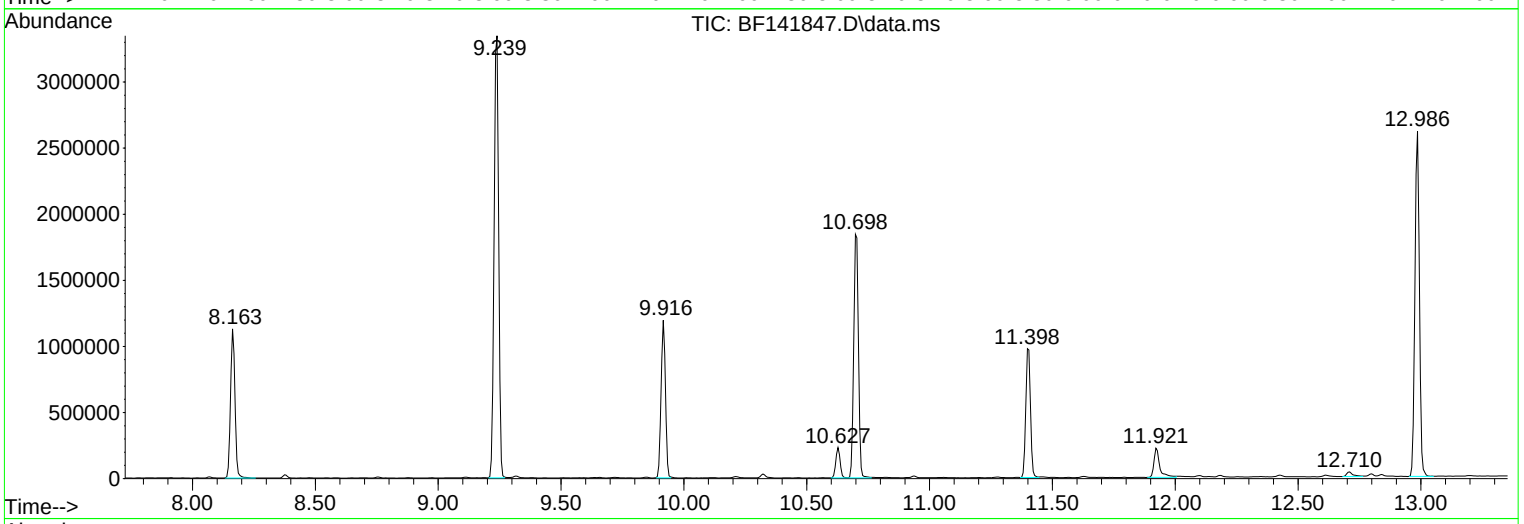
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

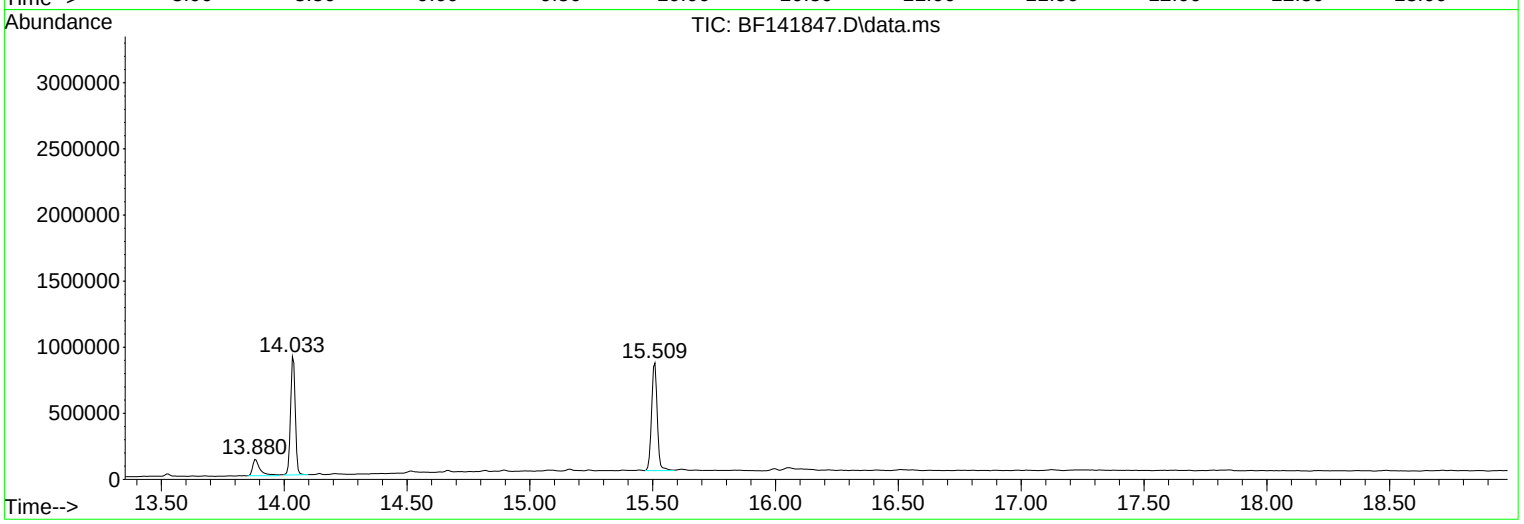
Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Sample Results: **BF141847.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

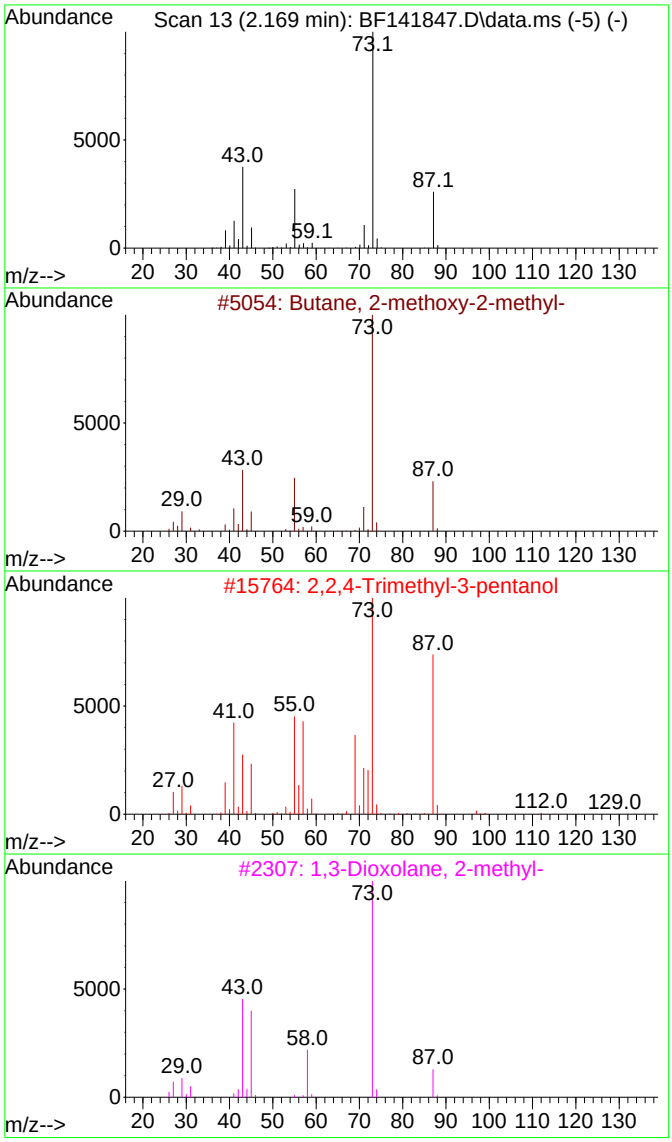
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

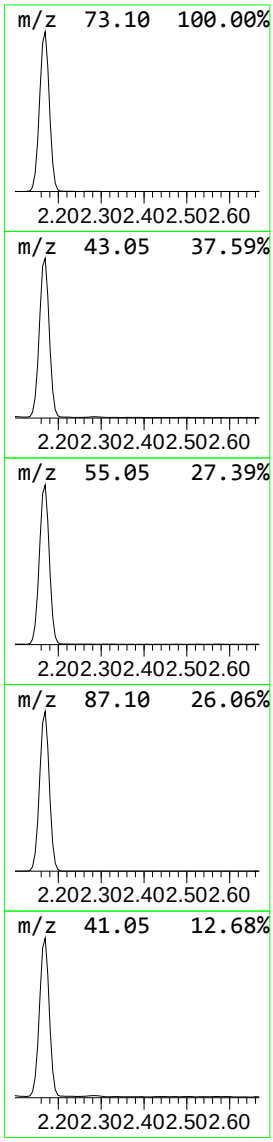
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.169	33.31 ng	1806640	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

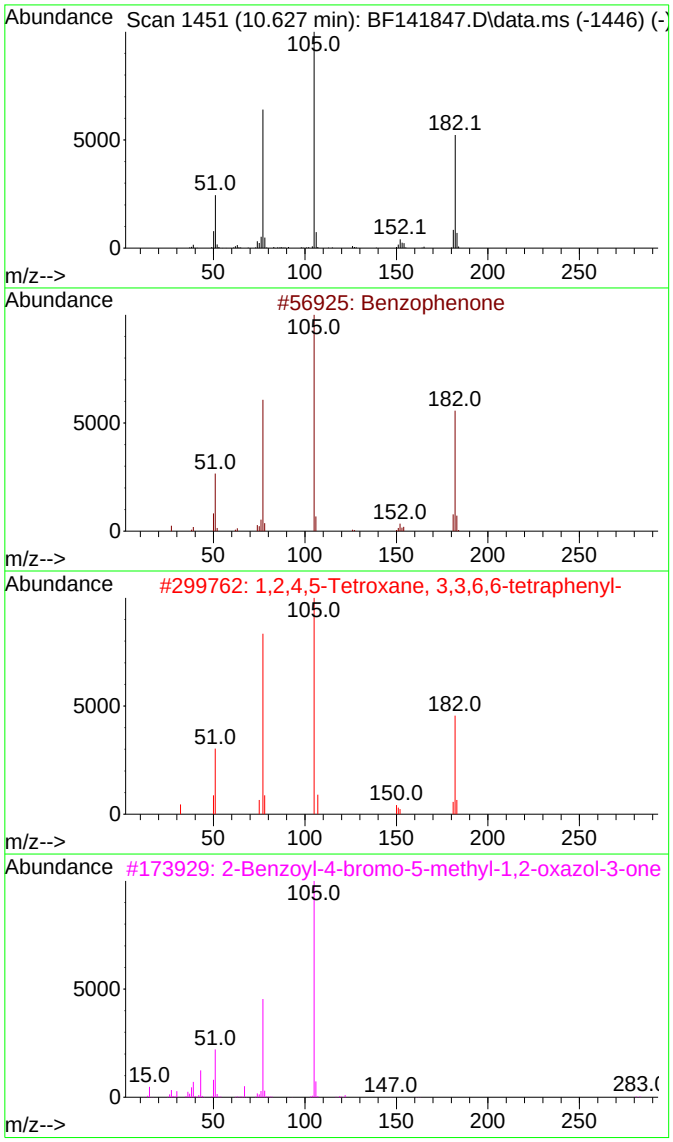
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

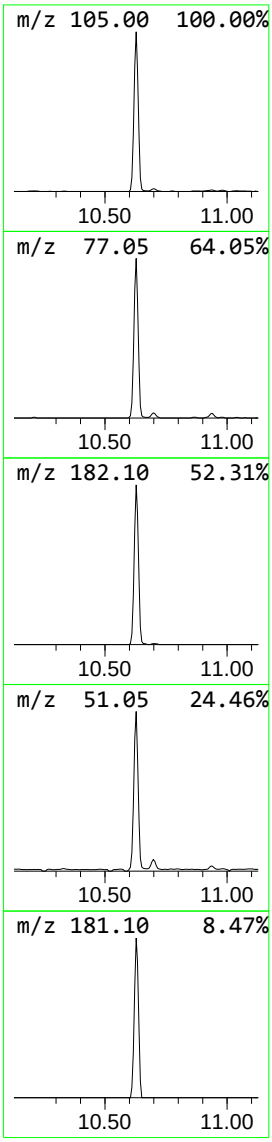
****

Peak Number 2 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.628	3.86 ng	279175	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	1,2,4,5-Tetroxane, 3,3,6,6-tetra...	396	C26H20O4	016204-36-7	78
3	2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	47
4	1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	47
5	Vinyl benzoate	148	C9H8O2	000769-78-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

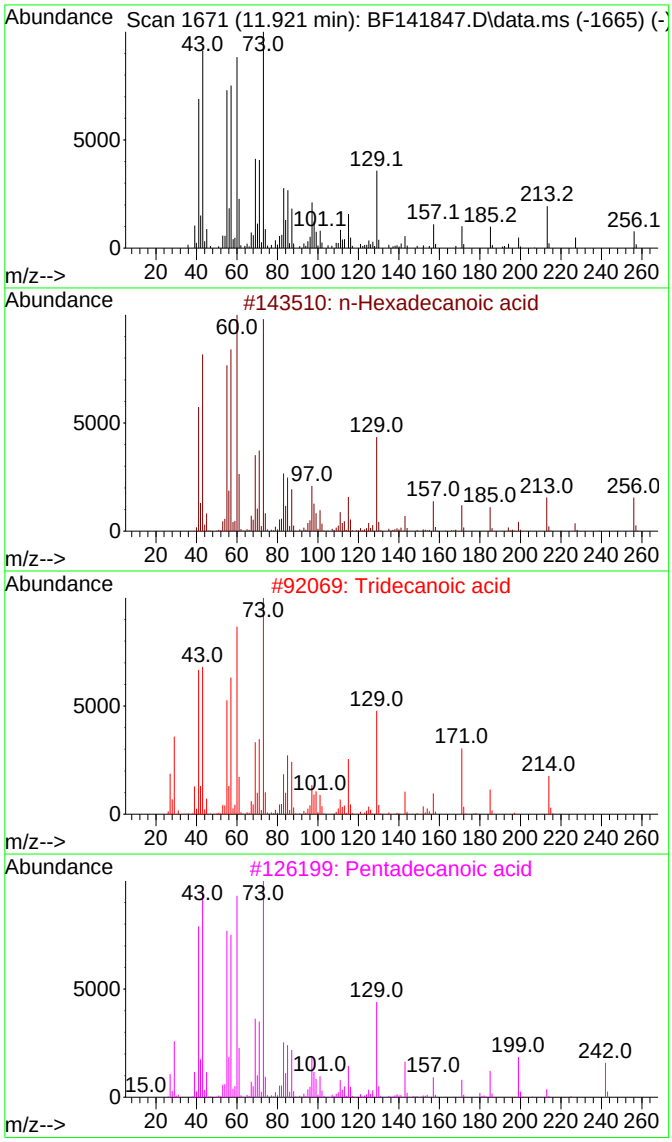
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

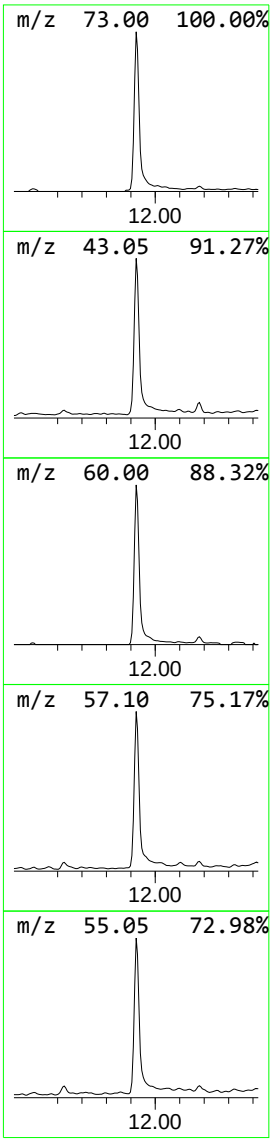
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.922	5.68 ng	365902	Phenanthrene-d10	11.404

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	95
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	80
5	8-Methylnonanoic acid	172	C10H20O2	005963-14-4	53





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

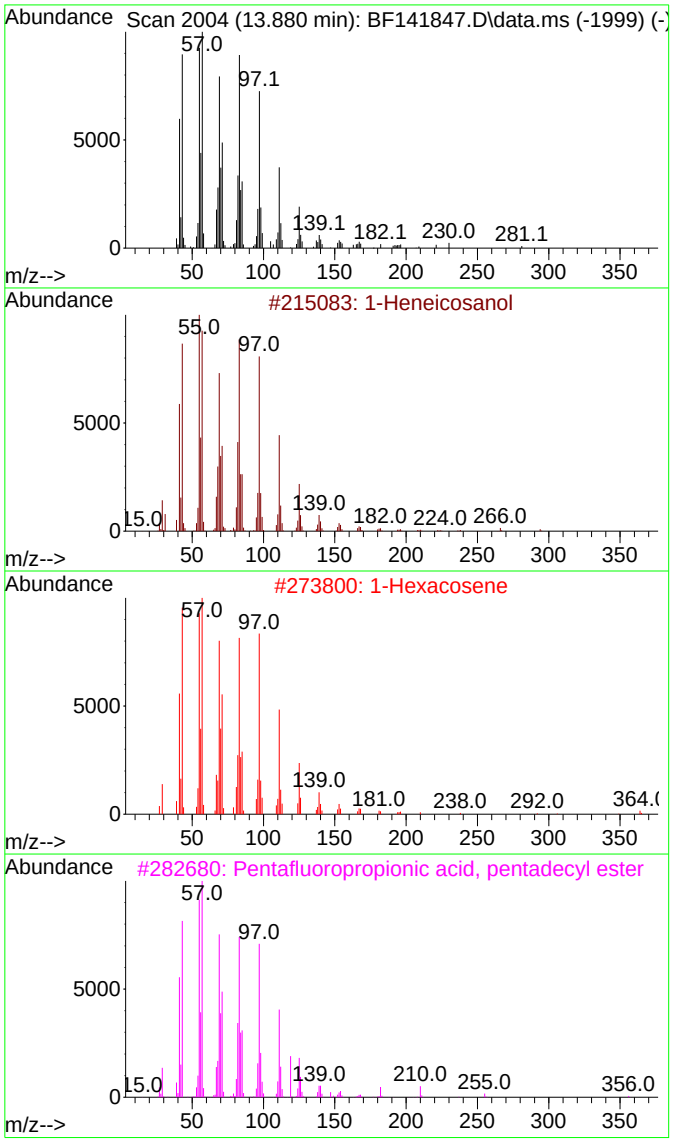
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

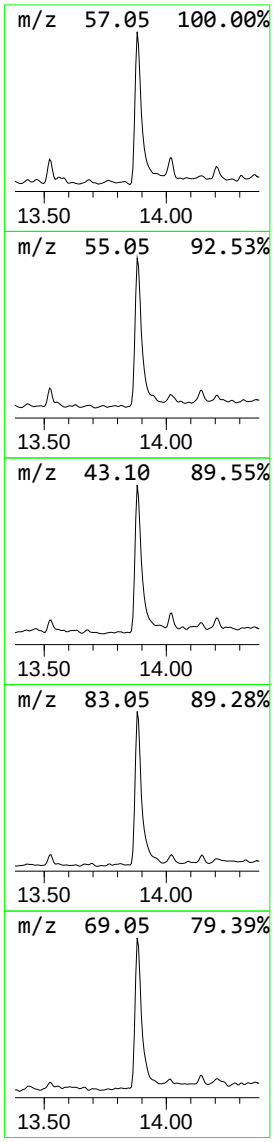
****

Peak Number 4 1-Heneicosanol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.880	4.49 ng	269448	Chrysene-d12	14.033

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	95
2	1-Hexacosene	364	C26H52	018835-33-1	94
3	Pentafluoropropionic acid, penta...	374	C18H31F5O2	959092-08-1	94
4	Trifluoroacetic acid, pentadecyl...	324	C17H31F3O2	959010-23-2	94
5	n-Tetracosanol-1	354	C24H50O	000506-51-4	94





Sample Results: **BF141847.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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
Butane, 2-metho...	2.169	33.3	ng	1806640	1	6.887	1084610	20.0
Benzophenone	10.628	3.9	ng	279175	3	9.916	1445010	20.0
n-Hexadecanoic ...	11.922	5.7	ng	365902	4	11.404	1289130	20.0
1-Heneicosanol	13.880	4.5	ng	269448	5	14.033	1200350	20.0

Raw Data: **BF141842.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.7
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
BF141842.D	1	03/05/25 09:40	03/05/25 14:23	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	U	210	380	ug/Kg
108-95-2	Phenol	96.5	U	96.5	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	97.4	U	97.4	200	ug/Kg
95-57-8	2-Chlorophenol	97.2	U	97.2	200	ug/Kg
95-48-7	2-Methylphenol	93.8	U	93.8	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	UQ	110	200	ug/Kg
98-86-2	Acetophenone	100	U	100	200	ug/Kg
65794-96-9	3+4-Methylphenols	92.9	U	92.9	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	46.9	U	46.9	93.1	ug/Kg
67-72-1	Hexachloroethane	96.6	U	96.6	200	ug/Kg
98-95-3	Nitrobenzene	110	U	110	200	ug/Kg
78-59-1	Isophorone	98.5	U	98.5	200	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	99.9	U	99.9	200	ug/Kg
120-83-2	2,4-Dichlorophenol	87.9	U	87.9	200	ug/Kg
91-20-3	Naphthalene	96.1	U	96.1	200	ug/Kg
106-47-8	4-Chloroaniline	96.1	UQ	96.1	200	ug/Kg
87-68-3	Hexachlorobutadiene	96.9	U	96.9	200	ug/Kg
105-60-2	Caprolactam	100	U	100	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	90.2	U	90.2	200	ug/Kg
91-57-6	2-Methylnaphthalene	96.0	U	96.0	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	180	U	180	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	83.1	U	83.1	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	86.1	U	86.1	200	ug/Kg
92-52-4	1,1-Biphenyl	100	U	100	200	ug/Kg
91-58-7	2-Chloronaphthalene	96.9	U	96.9	200	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	200	ug/Kg
131-11-3	Dimethylphthalate	95.1	U	95.1	200	ug/Kg

Raw Data: **BF141842.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.7
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
BF141842.D	1	03/05/25 09:40	03/05/25 14:23	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	100	U	100	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	96.8	U	96.8	200	ug/Kg
99-09-2	3-Nitroaniline	100	UQ	100	200	ug/Kg
83-32-9	Acenaphthene	94.4	U	94.4	200	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	380	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	380	ug/Kg
132-64-9	Dibenzofuran	98.2	U	98.2	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	100	U	100	200	ug/Kg
84-66-2	Diethylphthalate	93.2	U	93.2	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	99.6	U	99.6	200	ug/Kg
86-73-7	Fluorene	99.5	U	99.5	200	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	U	140	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	95.0	U	95.0	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	91.8	U	91.8	200	ug/Kg
118-74-1	Hexachlorobenzene	98.9	U	98.9	200	ug/Kg
1912-24-9	Atrazine	110	U	110	200	ug/Kg
87-86-5	Pentachlorophenol	90.0	U	90.0	380	ug/Kg
85-01-8	Phenanthrene	97.8	U	97.8	200	ug/Kg
120-12-7	Anthracene	98.2	U	98.2	200	ug/Kg
86-74-8	Carbazole	93.4	U	93.4	200	ug/Kg
84-74-2	Di-n-butylphthalate	98.1	U	98.1	200	ug/Kg
206-44-0	Fluoranthene	95.1	U	95.1	200	ug/Kg
129-00-0	Pyrene	96.6	U	96.6	200	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	380	ug/Kg
56-55-3	Benzo(a)anthracene	93.9	U	93.9	200	ug/Kg
218-01-9	Chrysene	92.5	U	92.5	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	200	ug/Kg
117-84-0	Di-n-octyl phthalate	130	U	130	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	94.4	U	94.4	200	ug/Kg

Raw Data: **BF141842.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.7
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
BF141842.D	1	03/05/25 09:40	03/05/25 14:23	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	96.1	U	96.1	200	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	90.9	U	90.9	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	94.5	U	94.5	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	93.2	U	93.2	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	100	U	100	200	ug/Kg
123-91-1	1,4-Dioxane	130	U	130	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	86.9	U	86.9	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	87.9		30 (18) - 130 (112)	59%	SPK: 150
13127-88-3	Phenol-d6	84.2		30 (15) - 130 (107)	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	72.7		30 (18) - 130 (107)	73%	SPK: 100
321-60-8	2-Fluorobiphenyl	64.2		30 (20) - 130 (109)	64%	SPK: 100
118-79-6	2,4,6-Tribromophenol	86.1		30 (10) - 130 (116)	57%	SPK: 150
1718-51-0	Terphenyl-d14	48.0		30 (10) - 130 (105)	48%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	199000	6.886			
1146-65-2	Naphthalene-d8	748000	8.163			
15067-26-2	Acenaphthene-d10	374000	9.916			
1517-22-2	Phenanthrene-d10	582000	11.404			
1719-03-5	Chrysene-d12	429000	14.039			
1520-96-3	Perylene-d12	510000	15.509			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	1000	JB		2.16	ug/Kg
000119-61-9	Benzophenone	160	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	170	J		11.9	ug/Kg
959085-66-6	Heptadecyl heptafluorobutyrate	130	J		13.9	ug/Kg

Raw Data: **BF141842.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.7
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
BF141842.D	1	03/05/25 09:40	03/05/25 14:23	PB166984

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\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Quant Time: Mar 05 15:08:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	199424	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	747735	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	373687	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	582421	20.000	ng	0.00
76) Chrysene-d12	14.039	240	429057	20.000	ng	-0.01
86) Perylene-d12	15.509	264	509930	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1097622	87.898	ng	0.00
7) Phenol-d6	6.498	99	1369174	84.238	ng	-0.01
23) Nitrobenzene-d5	7.439	82	850594	72.713	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	302224	86.147	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	1497239	64.245	ng	0.00
79) Terphenyl-d14	12.986	244	1272874	47.998	ng	-0.01
Target Compounds						Qvalue
75) Fluoranthene	12.615	202	72012	2.256	ng	96

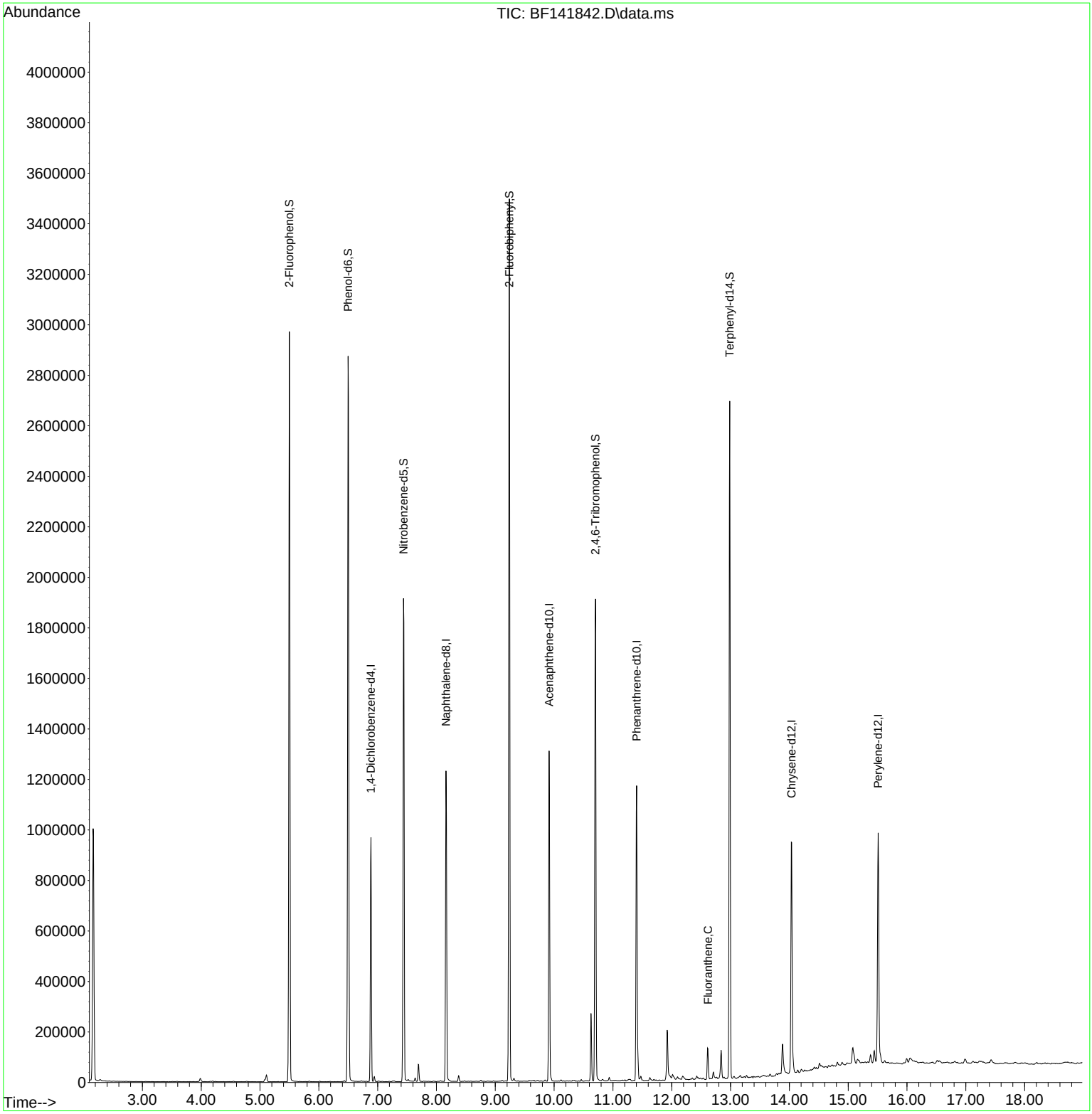
(#) = qualifier out of range (m) = manual integration (+) = signals summed

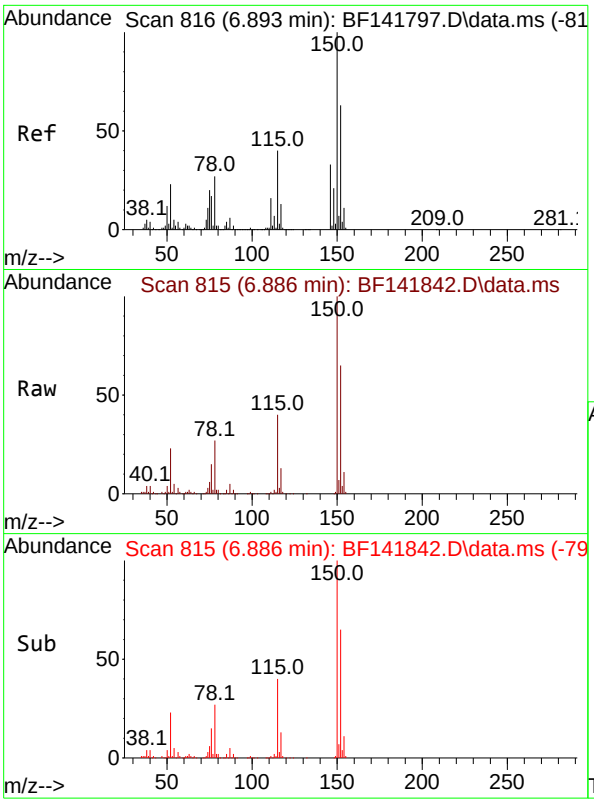
Sample Results: **BF141842.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Quant Time: Mar 05 15:08:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



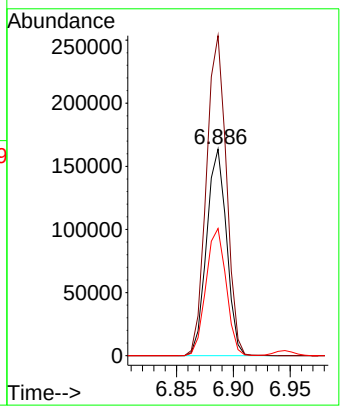


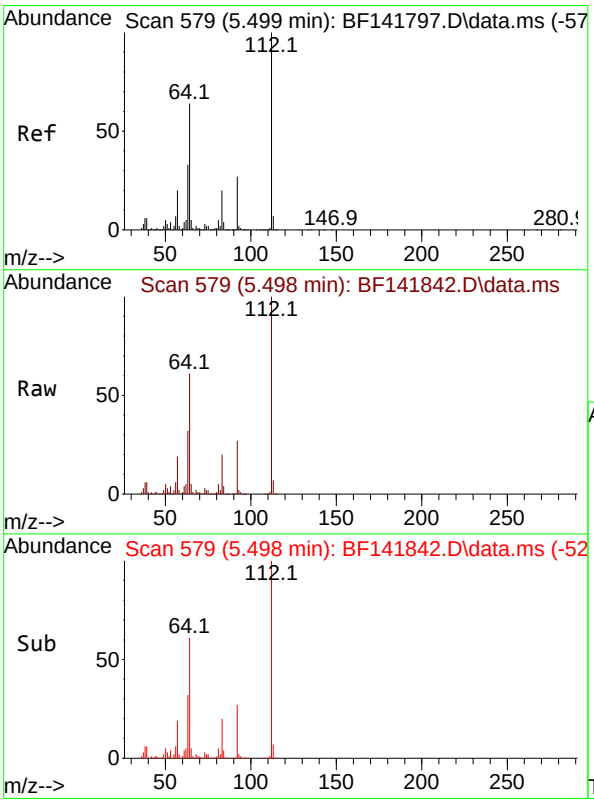
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 8
Delta R.T. -0.007 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Tgt Ion:152 Resp: 199424

Ion	Ratio	Lower	Upper
152	100		
150	155.0	127.5	191.3
115	61.6	51.4	77.2

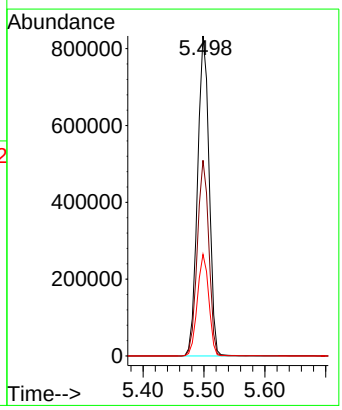


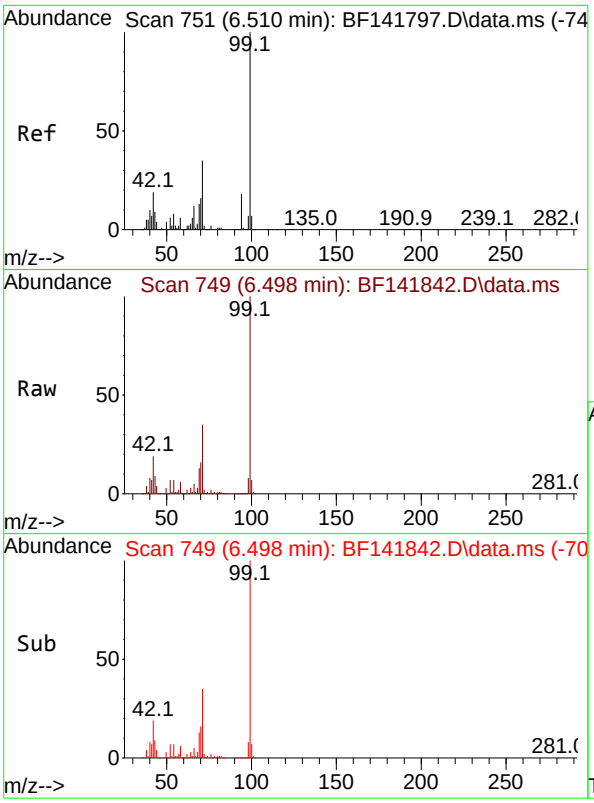


#5
2-Fluorophenol
Concen: 87.898 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Tgt Ion:112 Resp: 1097622

Ion	Ratio	Lower	Upper
112	100		
64	61.2	51.3	76.9
63	31.7	26.2	39.4



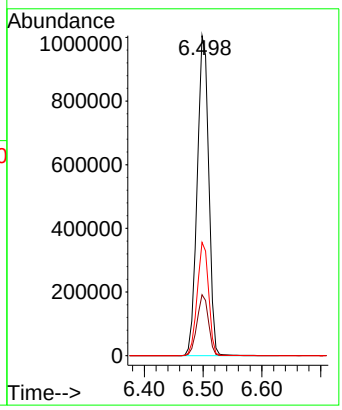


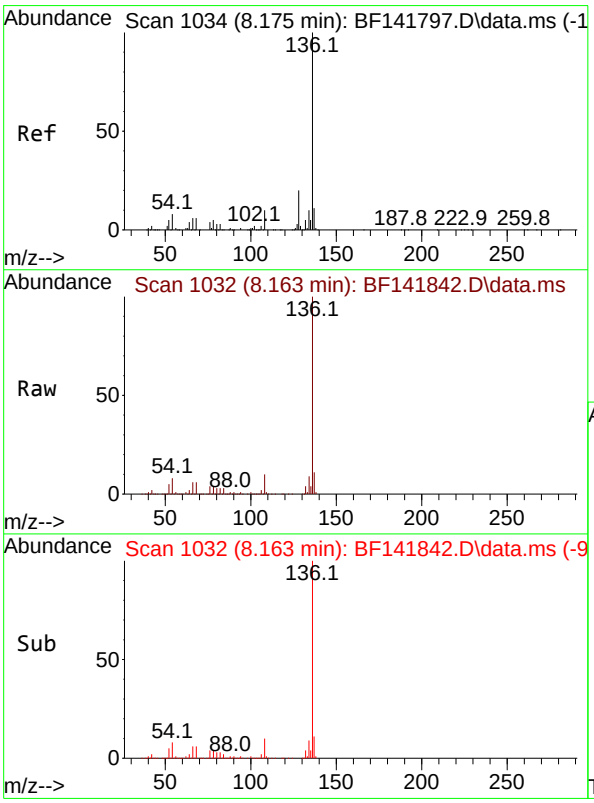
#7
Phenol-d6
Concen: 84.238 ng
RT: 6.498 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Tgt Ion: 99 Resp: 1369174

Ion	Ratio	Lower	Upper
99	100		
42	19.0	15.2	22.8
71	35.4	28.2	42.2

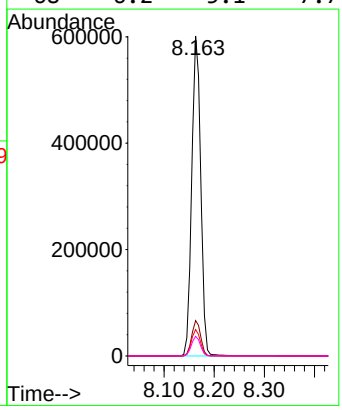


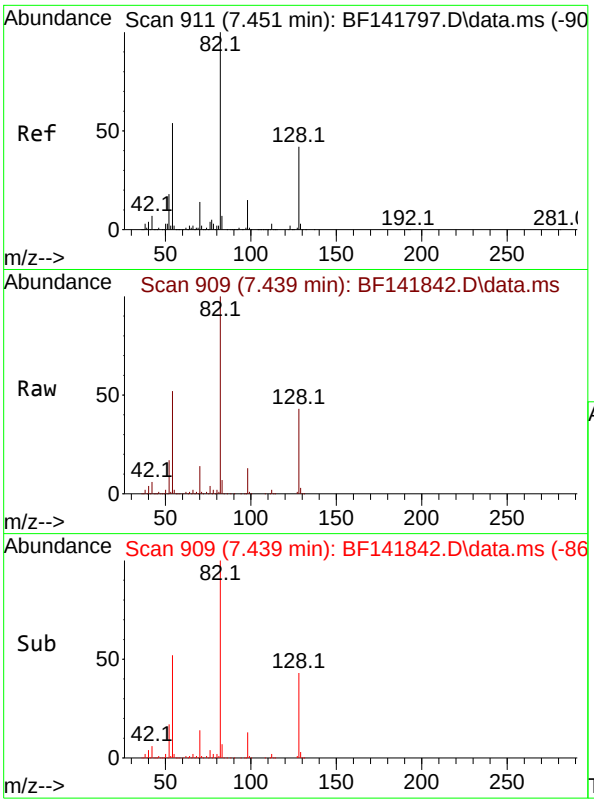


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Tgt Ion:136 Resp: 747735

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	8.3	6.9	10.3
68	6.2	5.1	7.7



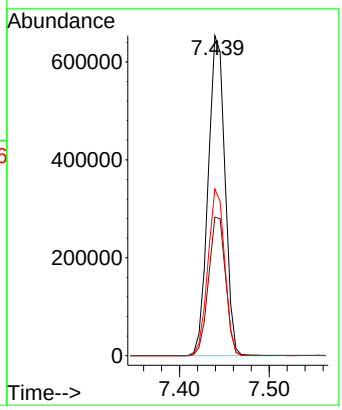


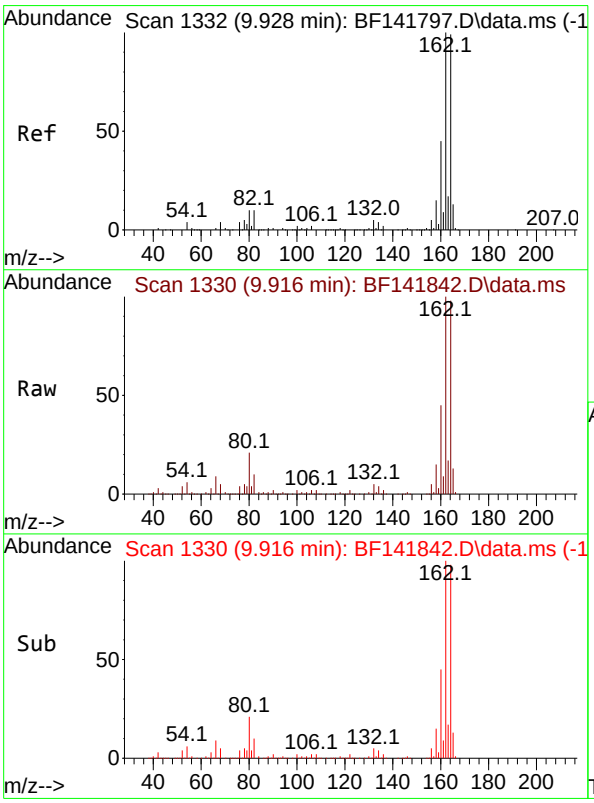
#23
Nitrobenzene-d5
Concen: 72.713 ng
RT: 7.439 min Scan# 9(
Delta R.T. -0.012 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Tgt Ion: 82 Resp: 850594

Ion	Ratio	Lower	Upper
82	100		
128	43.3	33.5	50.3
54	52.1	42.7	64.1

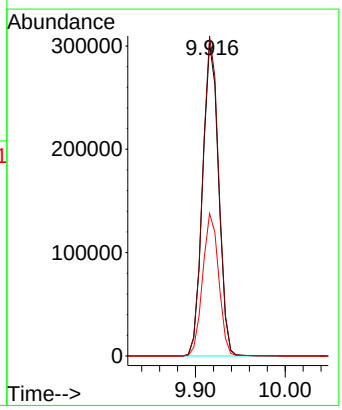


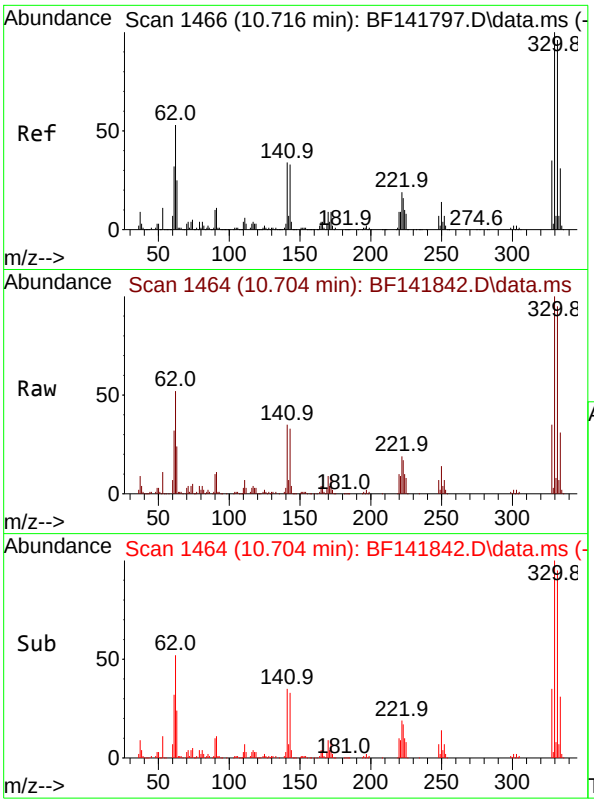


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Tgt Ion:164 Resp: 373687

Ion	Ratio	Lower	Upper
164	100		
162	102.3	80.6	120.8
160	45.5	36.3	54.5



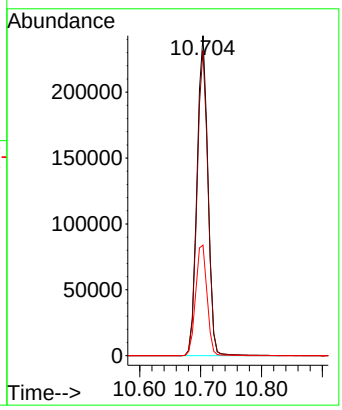


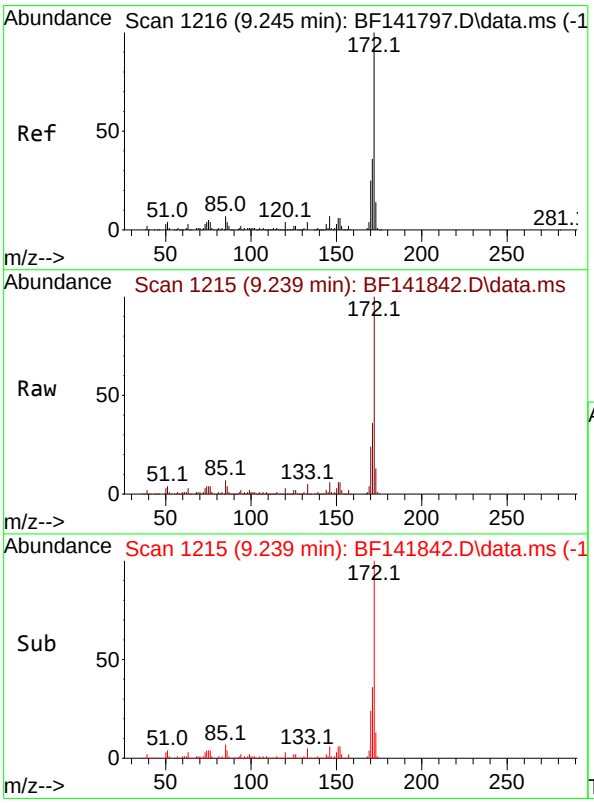
#42
2,4,6-Tribromophenol
Concen: 86.147 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Tgt Ion:330 Resp: 302224

Ion	Ratio	Lower	Upper
330	100		
332	95.6	76.6	115.0
141	36.2	29.0	43.4

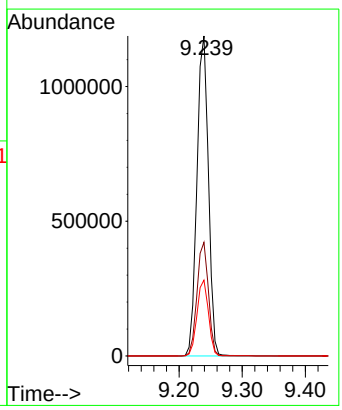


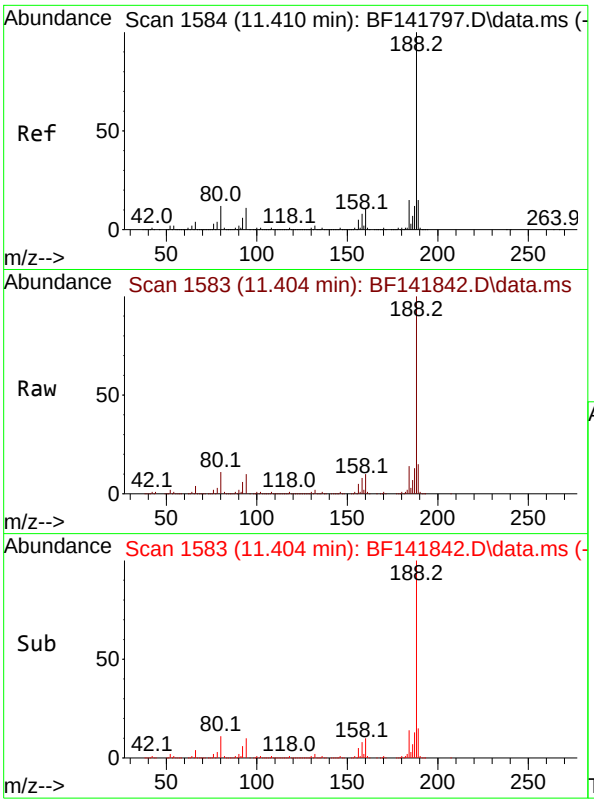


#45
2-Fluorobiphenyl
Concen: 64.245 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Tgt Ion:172 Resp: 1497239

Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.2	43.8
170	23.7	19.7	29.5



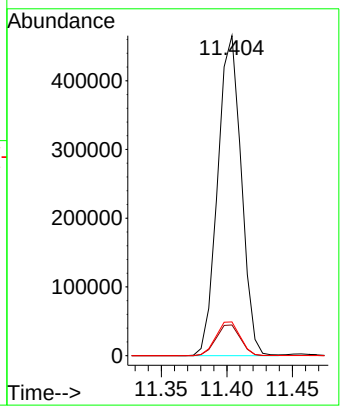


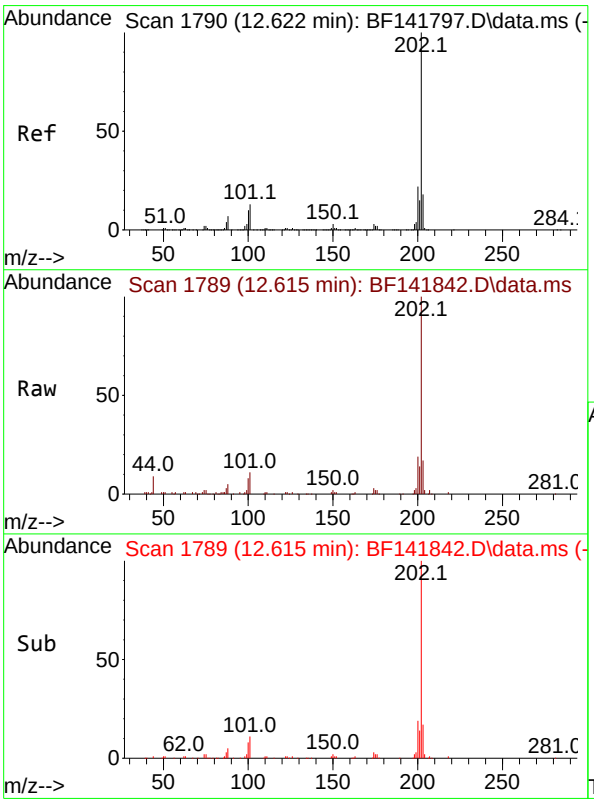
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Tgt Ion:188 Resp: 582421

Ion	Ratio	Lower	Upper
188	100		
94	9.6	8.9	13.3
80	10.5	9.7	14.5

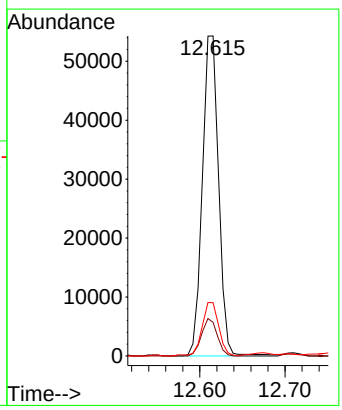


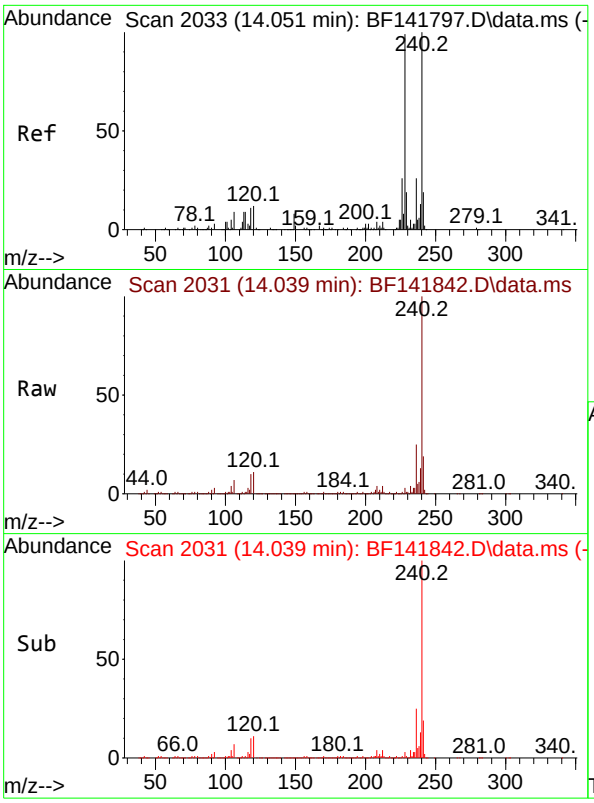


#75
Fluoranthene
Concen: 2.256 ng
RT: 12.615 min Scan# 1789
Delta R.T. -0.006 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Tgt Ion:202 Resp: 72012

Ion	Ratio	Lower	Upper
202	100		
101	10.5	0.0	32.8
203	16.7	0.0	38.0



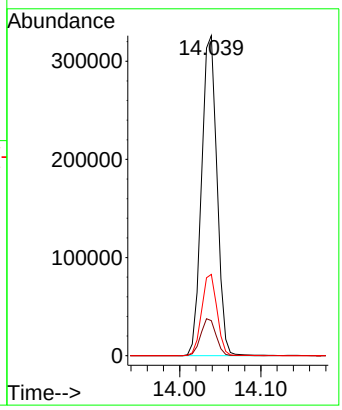


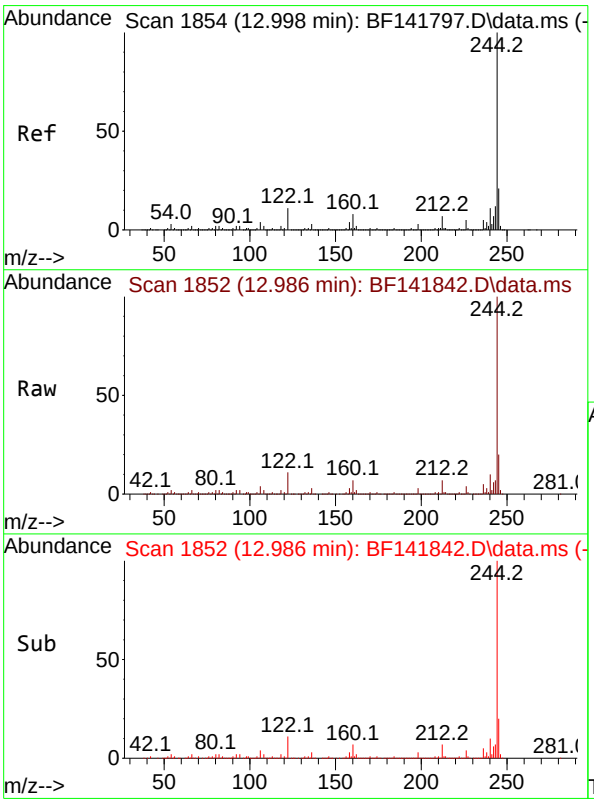
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Tgt Ion:240 Resp: 429057

Ion	Ratio	Lower	Upper
240	100		
120	11.0	9.7	14.5
236	25.4	21.0	31.4

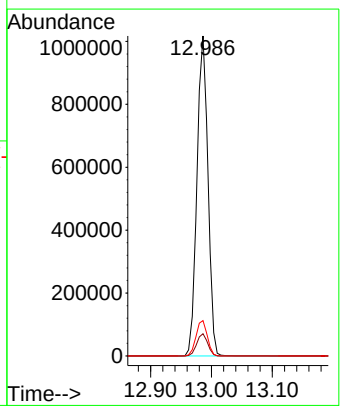


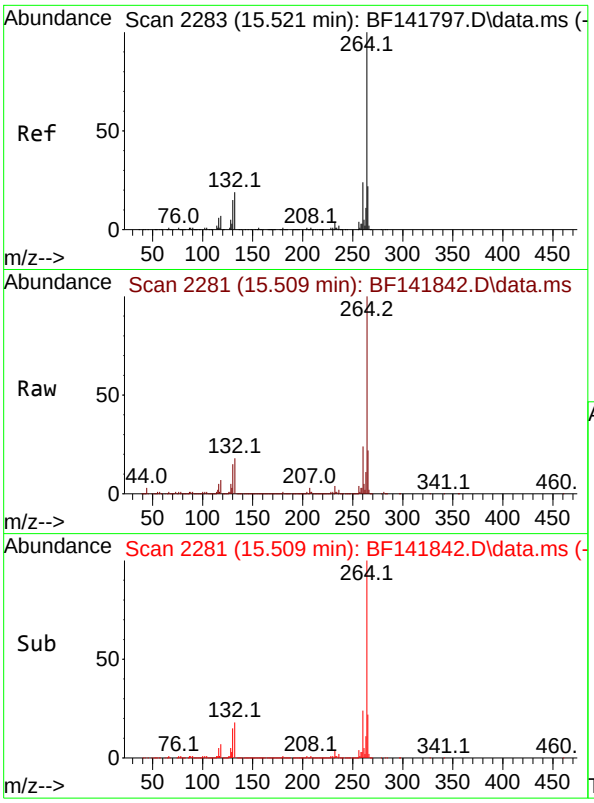


#79
Terphenyl-d14
Concen: 47.998 ng
RT: 12.986 min Scan# 1852
Delta R.T. -0.012 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Tgt Ion:244 Resp: 1272874

Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.0	9.0
122	11.0	9.0	13.6



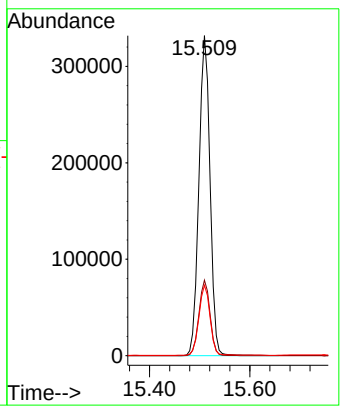


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Tgt Ion:264 Resp: 509930

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.9	28.3
265	22.0	17.4	26.0



Sample Results: **BF141842.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

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-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141842.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.163	5	12	26	rVB	997941	1608503	36.45%	4.938%
2	5.110	503	513	521	rVB2	26998	54959	1.25%	0.169%
3	5.498	573	579	584	rBV	2969812	3884369	88.03%	11.926%
4	6.498	743	749	763	rBV	2871789	3961732	89.78%	12.163%
5	6.886	809	815	820	rBV	965760	1192292	27.02%	3.661%
6	7.439	903	909	915	rBV	1912680	2498340	56.62%	7.670%
7	7.692	948	952	963	rVB	68017	88362	2.00%	0.271%
8	8.163	1027	1032	1050	rBV	1229529	1535441	34.80%	4.714%
9	9.239	1209	1215	1220	rBV	3492974	4412466	100.00%	13.547%
10	9.916	1325	1330	1335	rBV	1307569	1618597	36.68%	4.969%
11	10.627	1446	1451	1458	rVB	267259	325279	7.37%	0.999%
12	10.704	1458	1464	1478	rBV	1908285	2462027	55.80%	7.559%
13	11.404	1578	1583	1591	rBV	1166991	1578264	35.77%	4.846%
14	11.921	1664	1671	1683	rBV2	199353	343031	7.77%	1.053%
15	12.610	1784	1788	1794	rBV	123512	164463	3.73%	0.505%
16	12.839	1821	1827	1833	rVB	109792	157769	3.58%	0.484%
17	12.986	1846	1852	1857	rBV	2679728	3370918	76.40%	10.349%
18	13.880	2000	2004	2022	rVB	116441	225008	5.10%	0.691%
19	14.033	2024	2030	2044	rVV	912900	1362213	30.87%	4.182%
20	15.080	2203	2208	2217	rVB	61865	140485	3.18%	0.431%
21	15.380	2256	2259	2265	rVB	31810	46883	1.06%	0.144%
22	15.445	2266	2270	2274	rVV	47890	75281	1.71%	0.231%
23	15.509	2275	2281	2294	rVB	910258	1464418	33.19%	4.496%

Sum of corrected areas: 32571100

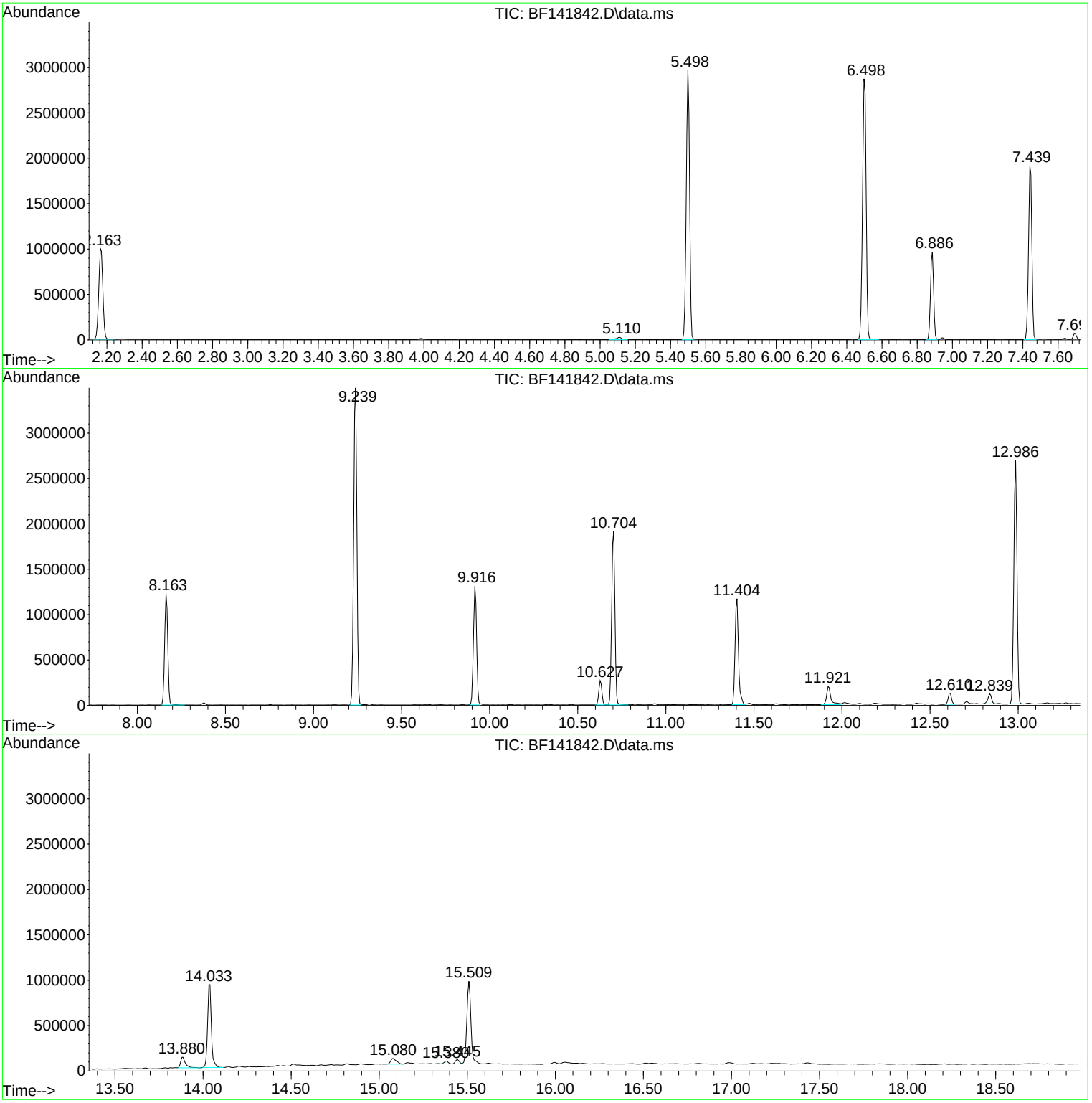
Sample Results: **BF141842.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Sample Results: **BF141842.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

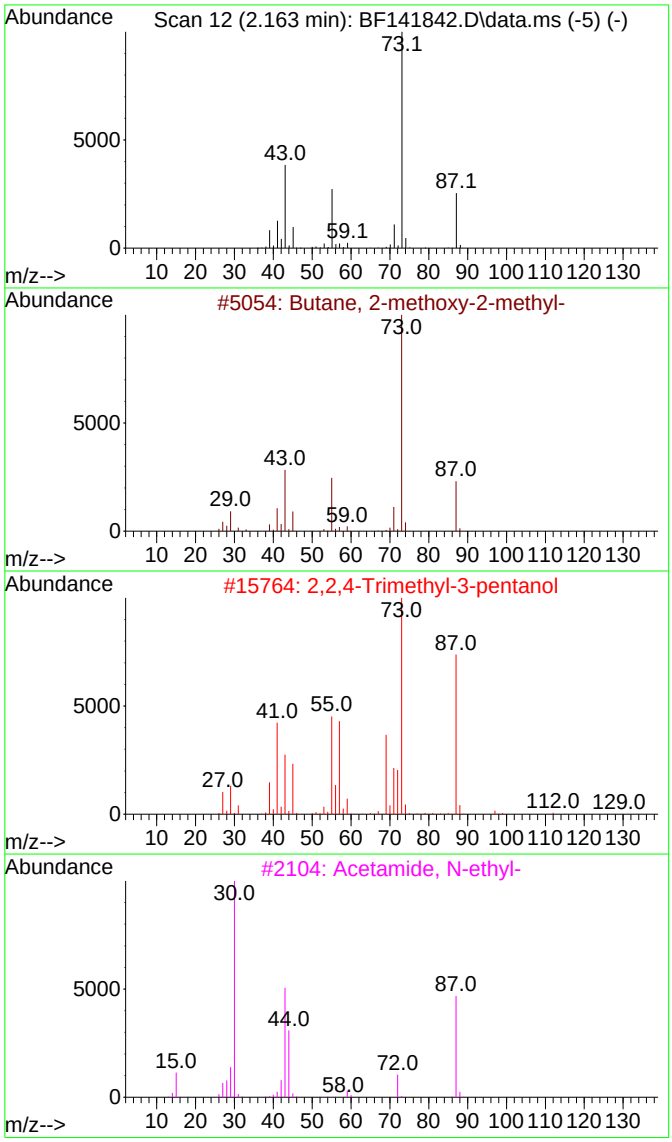
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

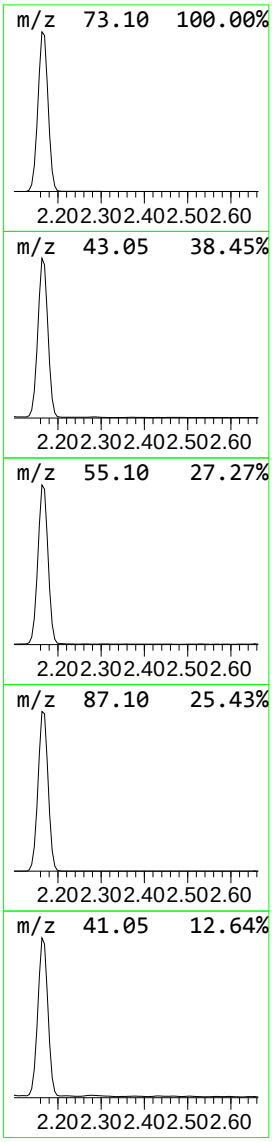
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.163	26.98 ng	1608500	1,4-Dichlorobenzene-d4	6.886

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	27
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

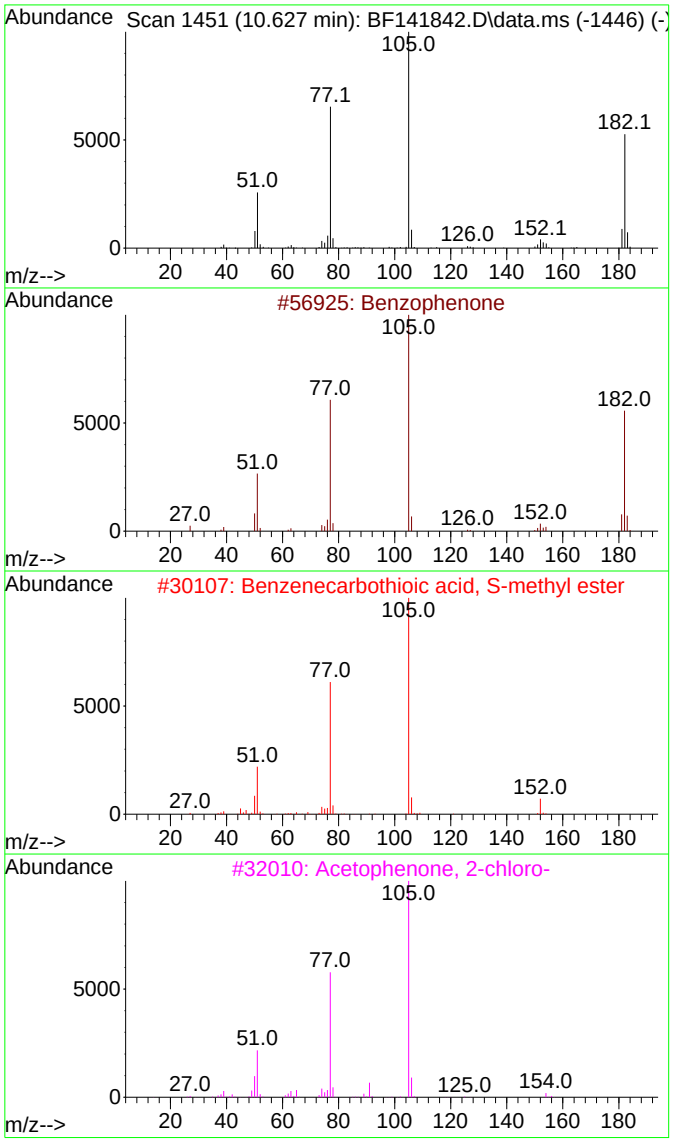
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

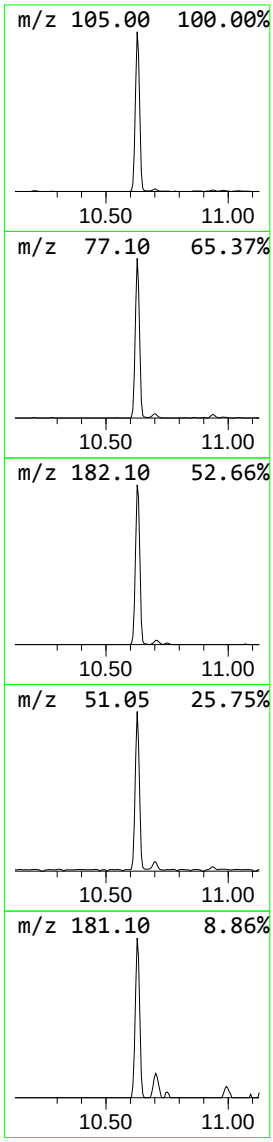
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.627	4.02 ng	325279	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4	Benzoyl bromide	184	C7H5BrO	000618-32-6	47
5	N-Methylbenzamide, N-chlorodiflu...	247	C10H8ClF2NO2	1000446-98-2	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

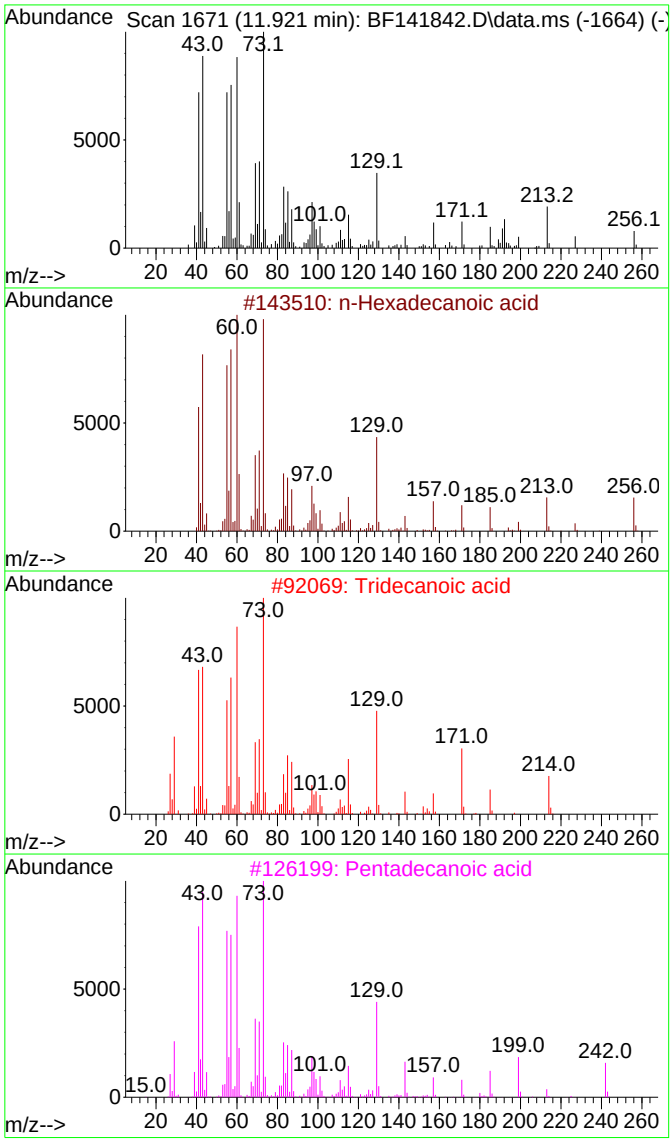
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

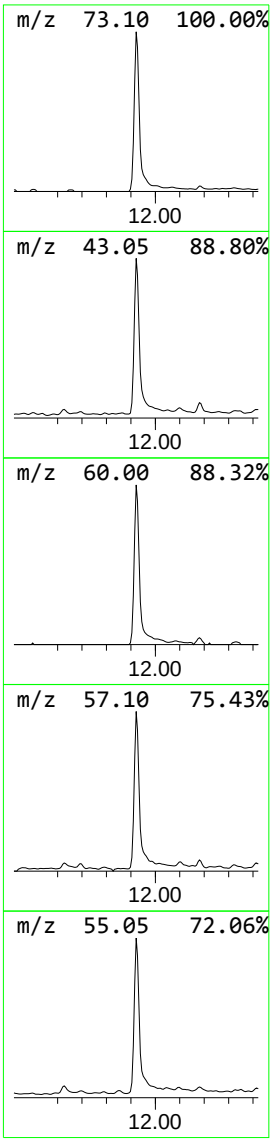
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.921	4.35 ng	343031	Phenanthrene-d10	11.404

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	95
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	87
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5	Carbonic acid, eicosyl vinyl ester	368	C23H44O3	1000382-54-3	35





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

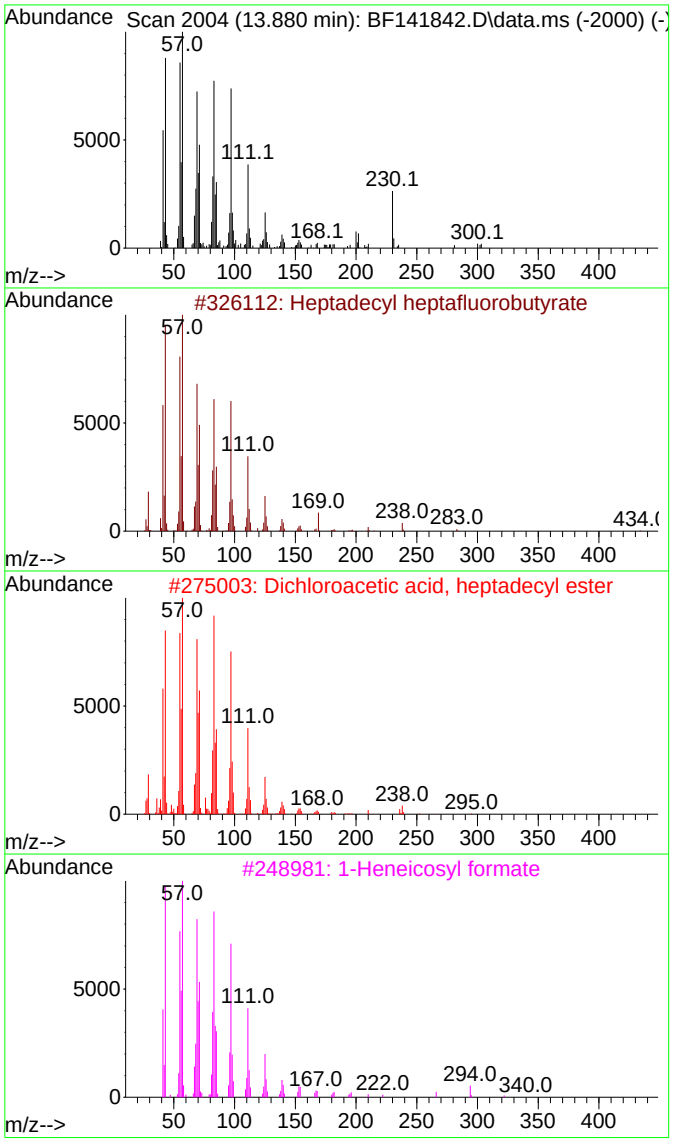
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

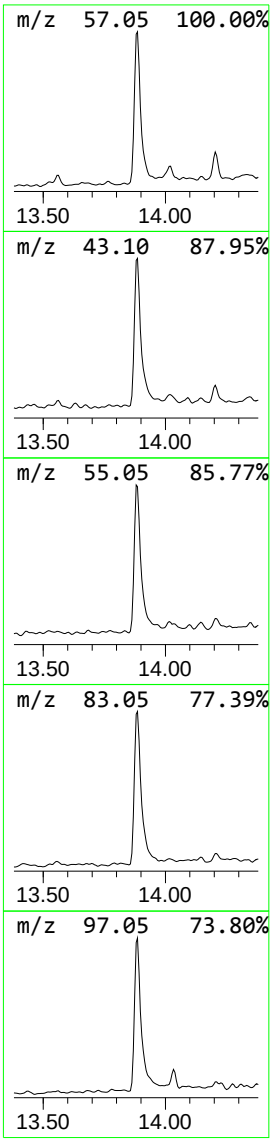
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.880	3.30 ng	225008	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	95
2	Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	95
3	1-Heneicosyl formate	340	C22H44O2	077899-03-7	94
4	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94
5	1-Hexacosene	364	C26H52	018835-33-1	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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
Butane, 2-metho...	2.163	27.0	ng	1608500	1	6.886	1192290	20.0
Benzophenone	10.627	4.0	ng	325279	3	9.916	1618600	20.0
n-Hexadecanoic ...	11.921	4.3	ng	343031	4	11.404	1578260	20.0
Heptadecyl hept...	13.880	3.3	ng	225008	5	14.039	1362210	20.0

Raw Data: **BF141864.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.1
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
BF141864.D	1	03/05/25 09:40	03/06/25 13:01	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	230	U	230	410	ug/Kg
108-95-2	Phenol	100	U	100	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	100	U	100	210	ug/Kg
95-57-8	2-Chlorophenol	100	U	100	210	ug/Kg
95-48-7	2-Methylphenol	100	U	100	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	UQ	110	210	ug/Kg
98-86-2	Acetophenone	110	U	110	210	ug/Kg
65794-96-9	3+4-Methylphenols	99.5	U	99.5	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	50.2	U	50.2	99.7	ug/Kg
67-72-1	Hexachloroethane	100	U	100	210	ug/Kg
98-95-3	Nitrobenzene	110	U	110	210	ug/Kg
78-59-1	Isophorone	110	U	110	210	ug/Kg
88-75-5	2-Nitrophenol	120	U	120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	120	U	120	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	110	U	110	210	ug/Kg
120-83-2	2,4-Dichlorophenol	94.1	U	94.1	210	ug/Kg
91-20-3	Naphthalene	100	U	100	210	ug/Kg
106-47-8	4-Chloroaniline	100	UQ	100	210	ug/Kg
87-68-3	Hexachlorobutadiene	100	U	100	210	ug/Kg
105-60-2	Caprolactam	110	U	110	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	96.6	U	96.6	210	ug/Kg
91-57-6	2-Methylnaphthalene	100	U	100	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	190	U	190	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	89.0	U	89.0	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	92.2	U	92.2	210	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	100	U	100	210	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	210	ug/Kg
131-11-3	Dimethylphthalate	100	U	100	210	ug/Kg

Raw Data: **BF141864.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.1
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
BF141864.D	1	03/05/25 09:40	03/06/25 13:01	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	110	U	110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	100	U	100	210	ug/Kg
99-09-2	3-Nitroaniline	110	UQ	110	210	ug/Kg
83-32-9	Acenaphthene	100	U	100	210	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	300	410	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	410	ug/Kg
132-64-9	Dibenzofuran	110	U	110	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	110	U	110	210	ug/Kg
84-66-2	Diethylphthalate	99.8	U	99.8	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	210	ug/Kg
86-73-7	Fluorene	110	U	110	210	ug/Kg
100-01-6	4-Nitroaniline	130	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	150	U	150	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	100	U	100	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	98.3	U	98.3	210	ug/Kg
118-74-1	Hexachlorobenzene	110	U	110	210	ug/Kg
1912-24-9	Atrazine	110	U	110	210	ug/Kg
87-86-5	Pentachlorophenol	96.3	U	96.3	410	ug/Kg
85-01-8	Phenanthrene	100	U	100	210	ug/Kg
120-12-7	Anthracene	110	U	110	210	ug/Kg
86-74-8	Carbazole	100	U	100	210	ug/Kg
84-74-2	Di-n-butylphthalate	110	U	110	210	ug/Kg
206-44-0	Fluoranthene	100	U	100	210	ug/Kg
129-00-0	Pyrene	100	U	100	210	ug/Kg
85-68-7	Butylbenzylphthalate	120	U	120	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	120	UQ	120	410	ug/Kg
56-55-3	Benzo(a)anthracene	100	U	100	210	ug/Kg
218-01-9	Chrysene	99.1	U	99.1	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	210	ug/Kg
117-84-0	Di-n-octyl phthalate	140	U	140	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	100	U	100	210	ug/Kg

Raw Data: **BF141864.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.1
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
BF141864.D	1	03/05/25 09:40	03/06/25 13:01	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	100	U	100	210	ug/Kg
50-32-8	Benzo(a)pyrene	120	U	120	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	97.3	U	97.3	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	100	U	100	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	99.8	U	99.8	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	210	ug/Kg
123-91-1	1,4-Dioxane	140	U	140	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	93.1	U	93.1	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	91.7		30 (18) - 130 (112)	61%	SPK: 150
13127-88-3	Phenol-d6	90.5		30 (15) - 130 (107)	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	77.1		30 (18) - 130 (107)	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.3		30 (20) - 130 (109)	68%	SPK: 100
118-79-6	2,4,6-Tribromophenol	118		30 (10) - 130 (116)	78%	SPK: 150
1718-51-0	Terphenyl-d14	58.4		30 (10) - 130 (105)	58%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	163000	6.887			
1146-65-2	Naphthalene-d8	640000	8.163			
15067-26-2	Acenaphthene-d10	350000	9.916			
1517-22-2	Phenanthrene-d10	622000	11.404			
1719-03-5	Chrysene-d12	548000	14.039			
1520-96-3	Perylene-d12	480000	15.509			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	1000	JB		2.16	ug/Kg
000119-61-9	Benzophenone	210	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	870	J		11.9	ug/Kg
000057-11-4	Octadecanoic acid	380	J		12.7	ug/Kg
015594-90-8	1-Heneicosanol	320	J		13.9	ug/Kg
000822-26-4	1-Docosanol, acetate	93.5	J		16.1	ug/Kg

Raw Data: **BF141864.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.1
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
BF141864.D	1	03/05/25 09:40	03/06/25 13:01	PB166984

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: **BF141864.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Quant Time: Mar 06 15:50:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	163469	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	639781	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	350300	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	621587	20.000	ng	0.00
76) Chrysene-d12	14.039	240	547828	20.000	ng	-0.01
86) Perylene-d12	15.509	264	479609	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	938894	91.724	ng	0.00
7) Phenol-d6	6.498	99	1205625	90.491	ng	-0.01
23) Nitrobenzene-d5	7.439	82	771678	77.098	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	386471	117.516	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	1491514	68.272	ng	0.00
79) Terphenyl-d14	12.986	244	1977777	58.410	ng	-0.01
Target Compounds						Qvalue

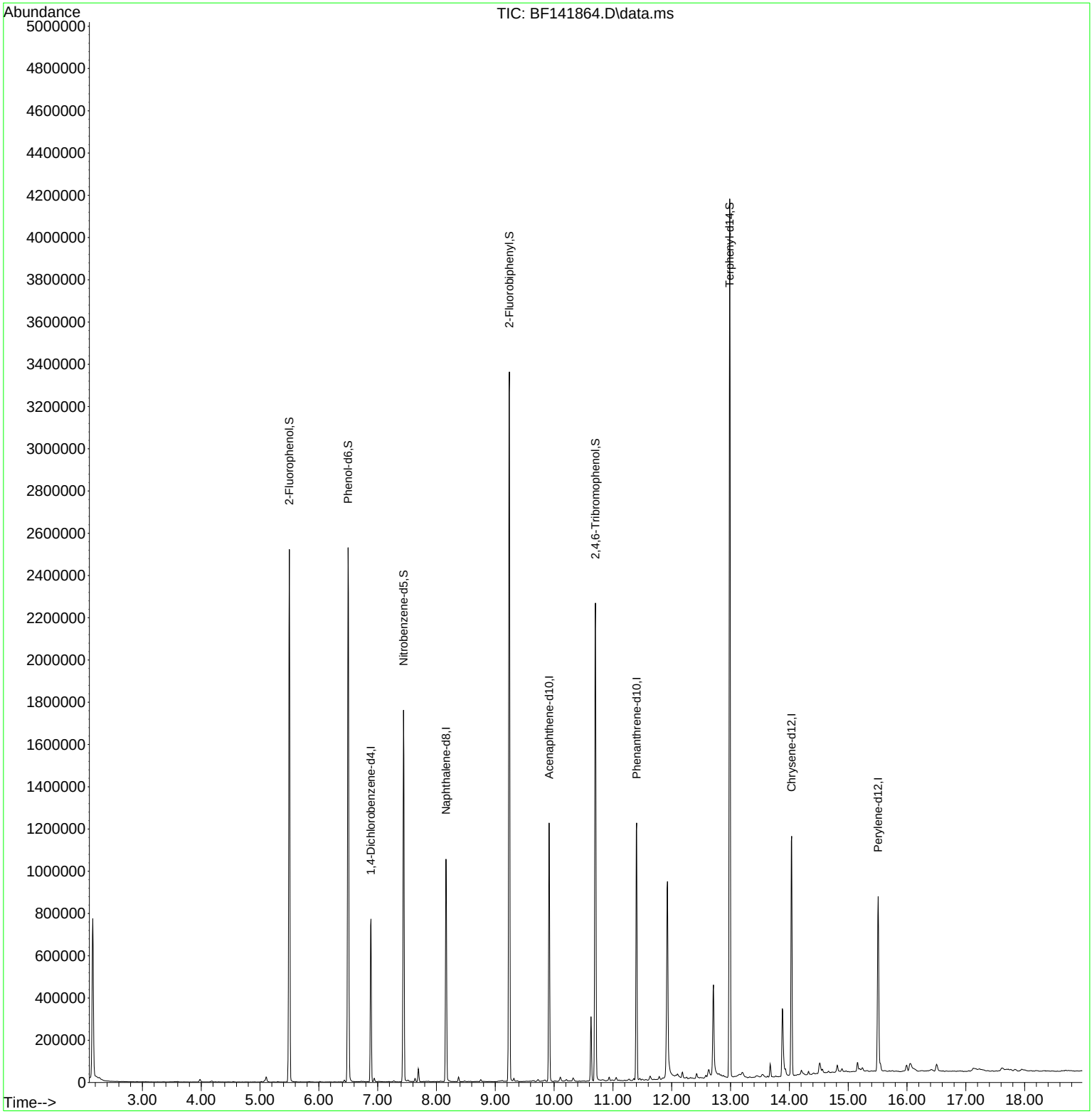
(#) = qualifier out of range (m) = manual integration (+) = signals summed

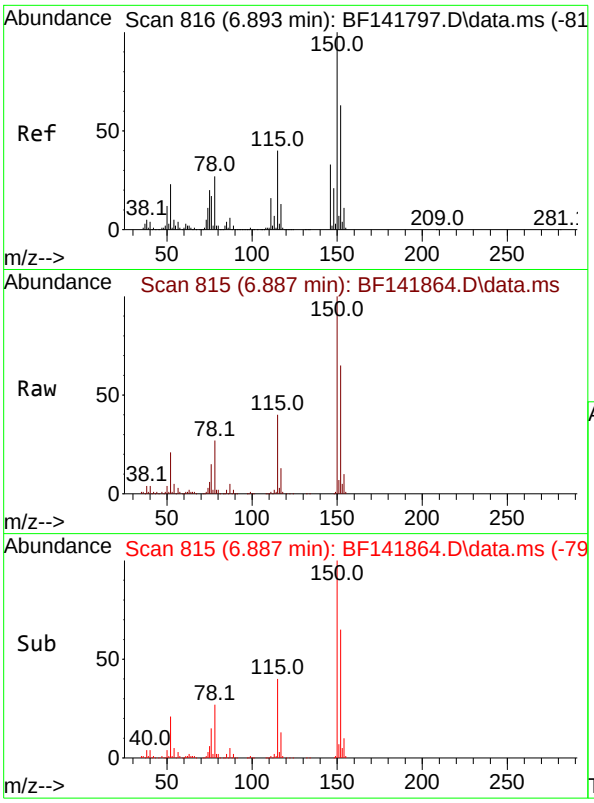
Sample Results: **BF141864.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Quant Time: Mar 06 15:50:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



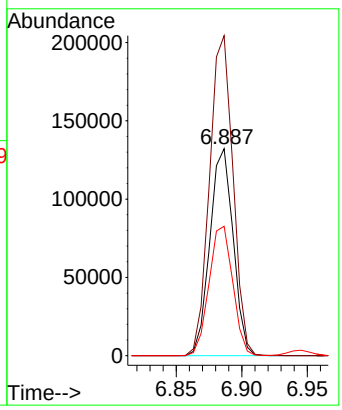


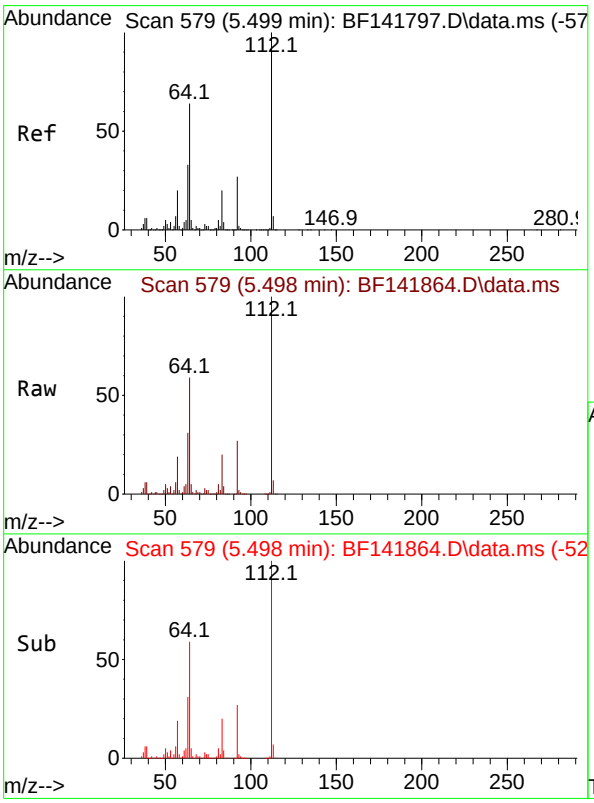
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Tgt Ion:152 Resp: 163469

Ion	Ratio	Lower	Upper
152	100		
150	154.6	127.5	191.3
115	62.5	51.4	77.2

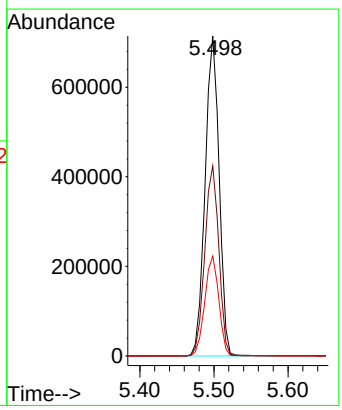


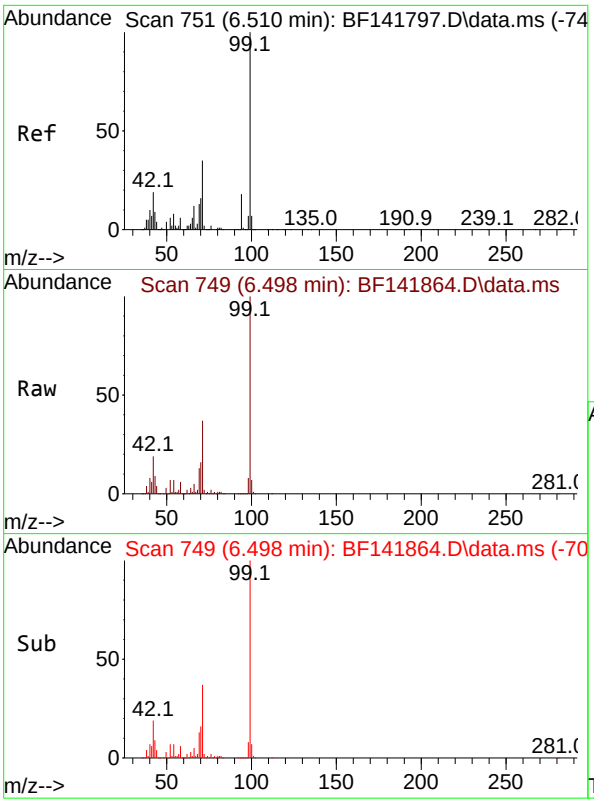


#5
2-Fluorophenol
Concen: 91.724 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Tgt Ion:112 Resp: 938894

Ion	Ratio	Lower	Upper
112	100		
64	59.4	51.3	76.9
63	31.2	26.2	39.4



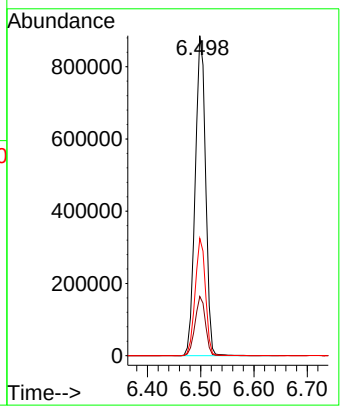


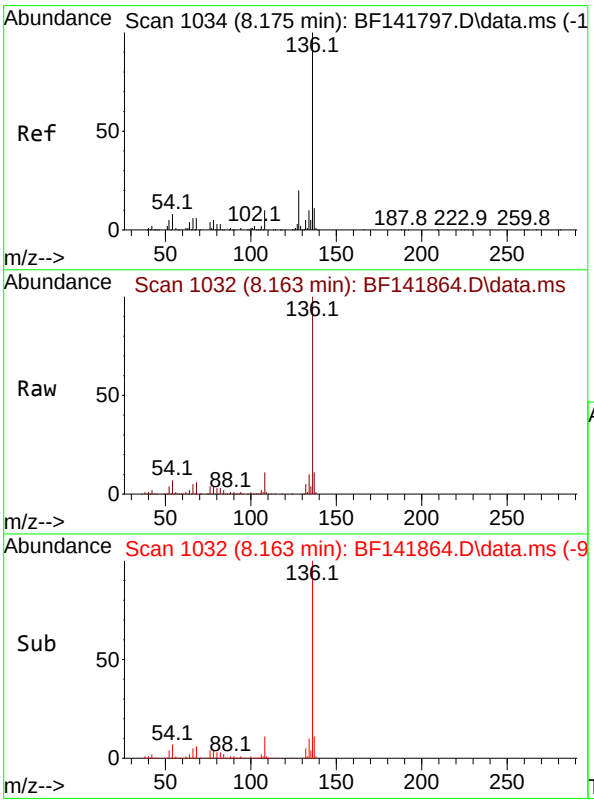
#7
Phenol-d6
Concen: 90.491 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Tgt Ion: 99 Resp: 1205625

Ion	Ratio	Lower	Upper
99	100		
42	18.5	15.2	22.8
71	36.6	28.2	42.2

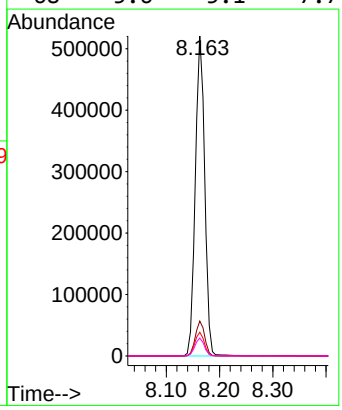


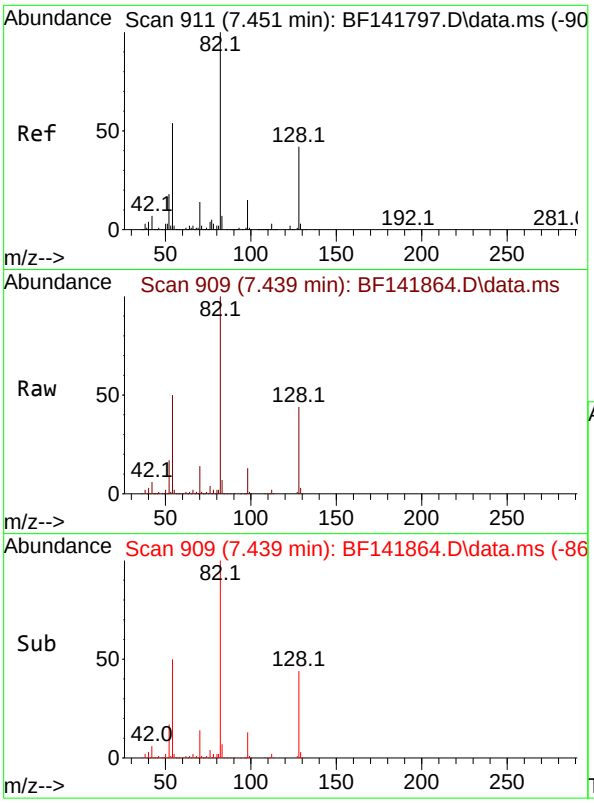


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Tgt Ion:136 Resp: 639781

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	7.4	6.9	10.3
68	5.6	5.1	7.7



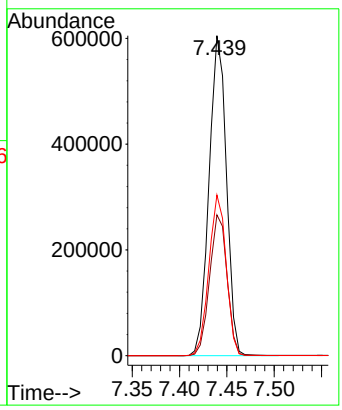


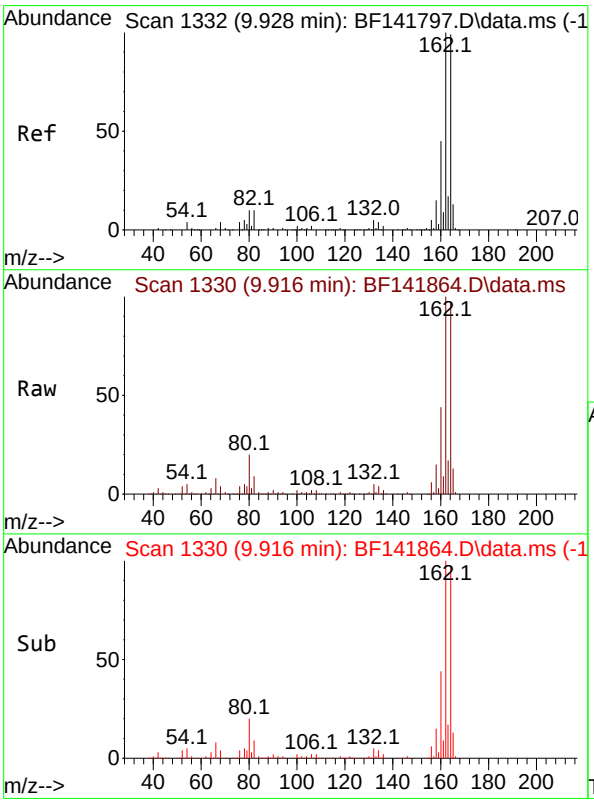
#23
Nitrobenzene-d5
Concen: 77.098 ng
RT: 7.439 min Scan# 9(
Delta R.T. -0.012 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Tgt Ion: 82 Resp: 771678

Ion	Ratio	Lower	Upper
82	100		
128	44.0	33.5	50.3
54	50.2	42.7	64.1

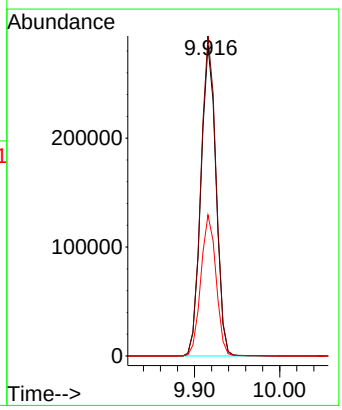


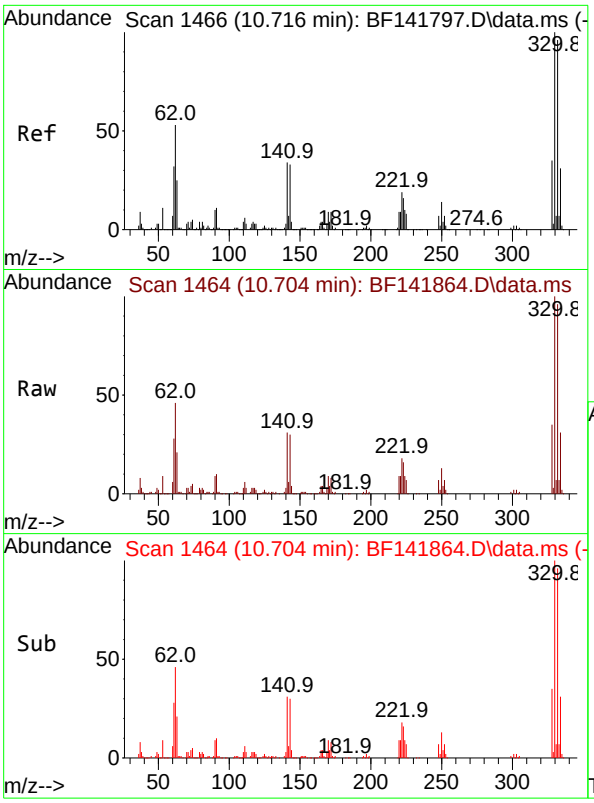


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Tgt Ion:164 Resp: 350300

Ion	Ratio	Lower	Upper
164	100		
162	103.0	80.6	120.8
160	45.4	36.3	54.5



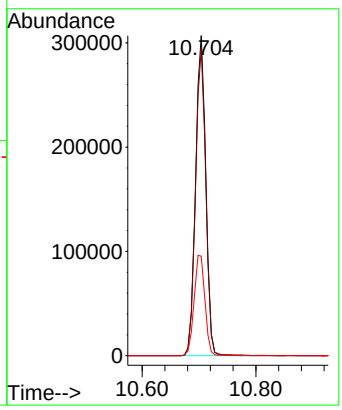


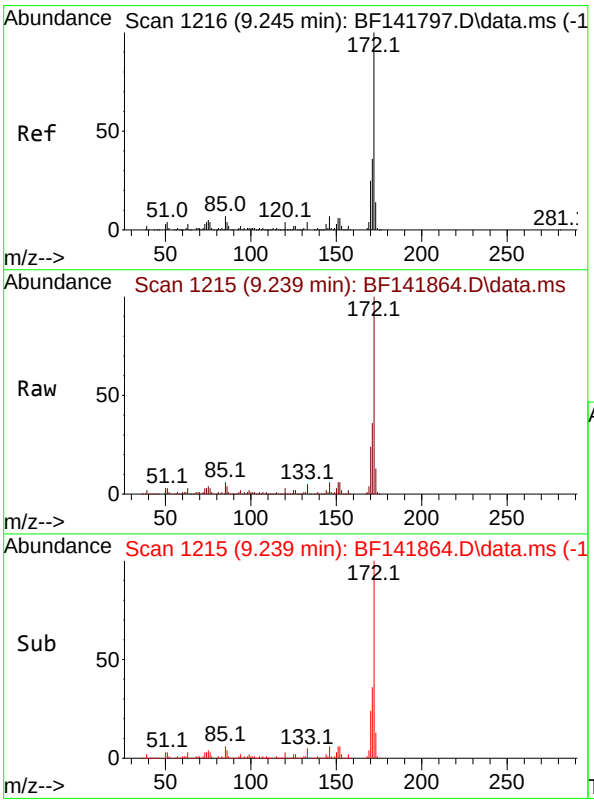
#42
2,4,6-Tribromophenol
Concen: 117.516 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Tgt Ion:330 Resp: 386471

Ion	Ratio	Lower	Upper
330	100		
332	96.1	76.6	115.0
141	33.2	29.0	43.4

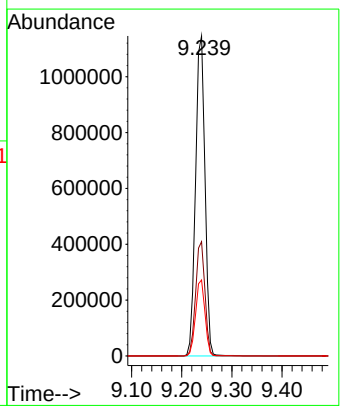


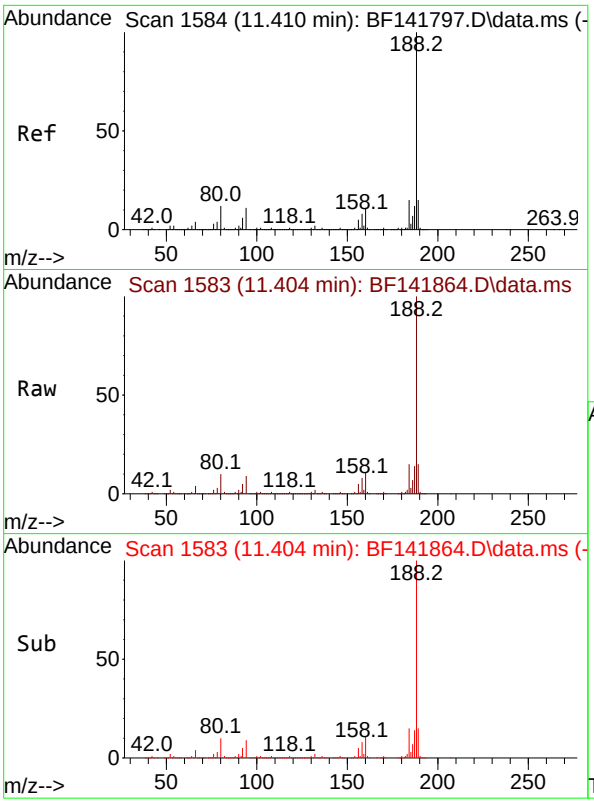


#45
2-Fluorobiphenyl
Concen: 68.272 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Tgt Ion:172 Resp: 1491514

Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.2	43.8
170	23.8	19.7	29.5



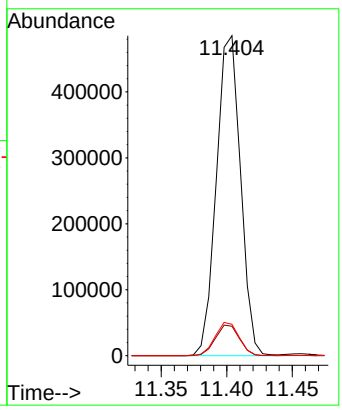


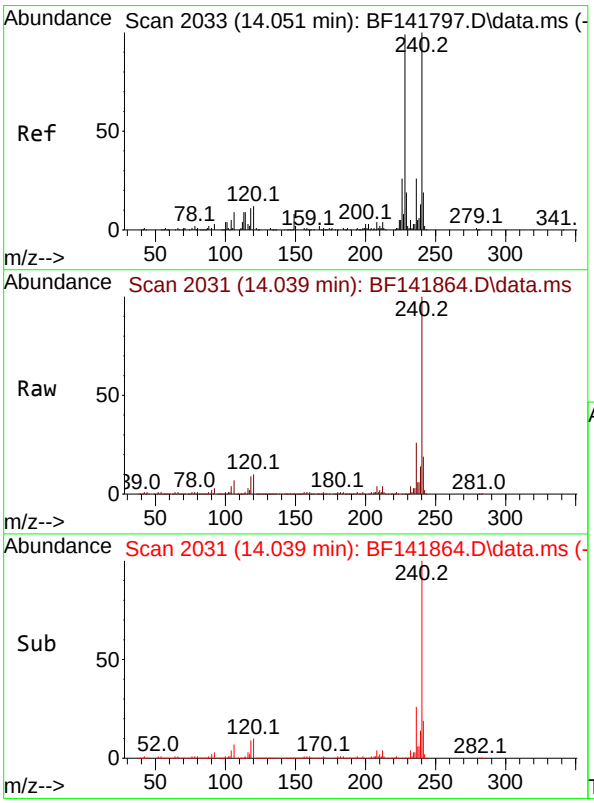
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Tgt Ion:188 Resp: 621587

Ion	Ratio	Lower	Upper
188	100		
94	9.2	8.9	13.3
80	9.8	9.7	14.5

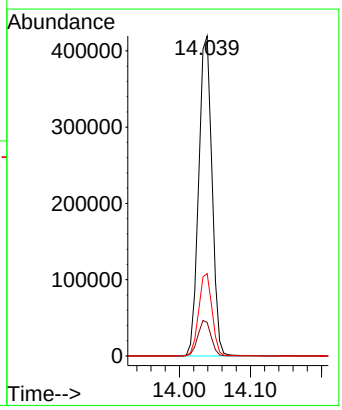


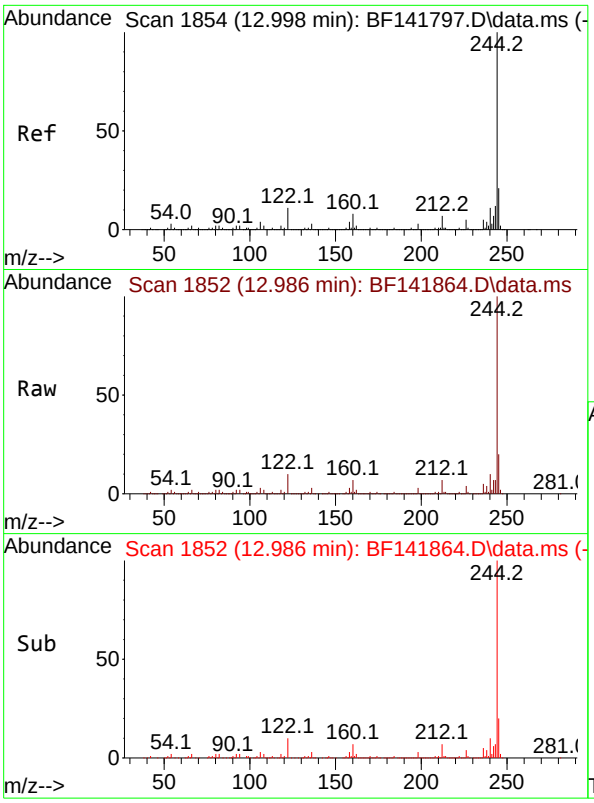


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Tgt Ion:240 Resp: 547828

Ion	Ratio	Lower	Upper
240	100		
120	10.4	9.7	14.5
236	25.8	21.0	31.4



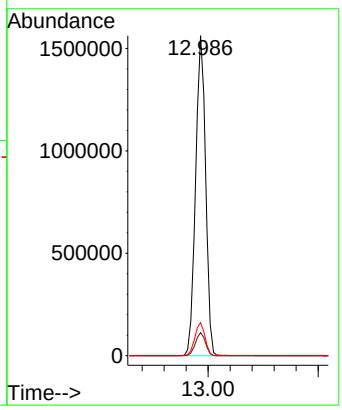


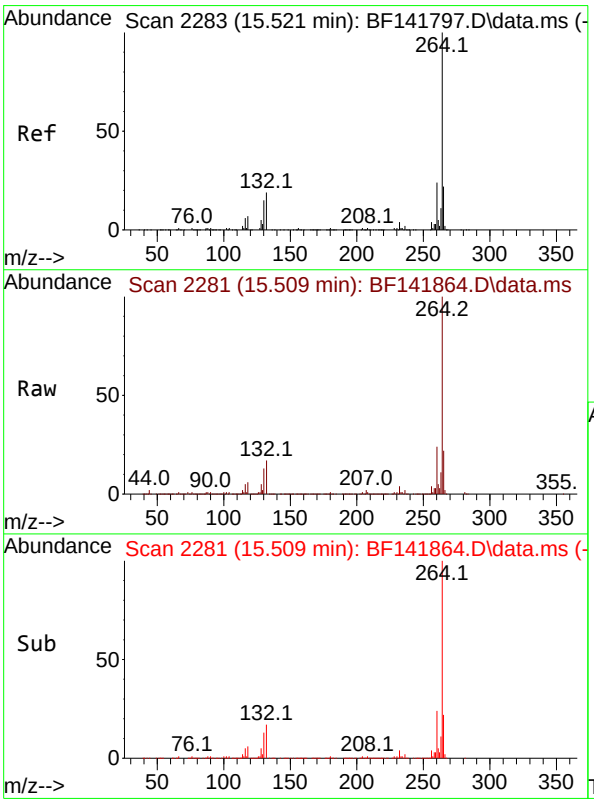
#79
Terphenyl-d14
Concen: 58.410 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Tgt Ion:244 Resp: 1977777

Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	10.3	9.0	13.6

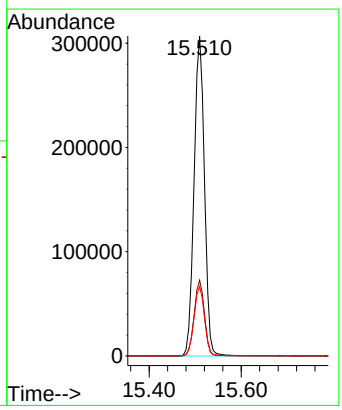




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Tgt Ion:264 Resp: 479609

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.9	28.3
265	21.8	17.4	26.0



Sample Results: **BF141864.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

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-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141864.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.157	4	11	27	rVB	754270	1215773	23.10%	3.477%
2	5.498	573	579	584	rBV	2520977	3307115	62.82%	9.459%
3	6.498	743	749	763	rBV	2529398	3495534	66.40%	9.998%
4	6.887	809	815	820	rBV	771139	972326	18.47%	2.781%
5	7.439	903	909	914	rBV	1759224	2244924	42.65%	6.421%
6	7.692	947	952	960	rVB	60796	74606	1.42%	0.213%
7	8.163	1026	1032	1037	rBV	1053056	1294356	24.59%	3.702%
8	9.239	1209	1215	1220	rBV	3357884	4392367	83.44%	12.563%
9	9.916	1325	1330	1335	rBV	1222255	1501914	28.53%	4.296%
10	10.627	1445	1451	1458	rBV	304182	375163	7.13%	1.073%
11	10.704	1458	1464	1474	rBV	2261539	2977623	56.56%	8.516%
12	11.404	1577	1583	1588	rBV	1216296	1563249	29.70%	4.471%
13	11.927	1662	1672	1693	rBV	930733	1631918	31.00%	4.667%
14	12.627	1786	1791	1798	rBV4	33184	73409	1.39%	0.210%
15	12.710	1798	1805	1818	rVV	428615	719514	13.67%	2.058%
16	12.986	1846	1852	1857	rBV	4158918	5264159	100.00%	15.056%
17	13.674	1965	1969	1974	rBV	61212	76168	1.45%	0.218%
18	13.880	1999	2004	2012	rBV	321738	584000	11.09%	1.670%
19	14.039	2025	2031	2038	rVB	1132997	1503836	28.57%	4.301%
20	14.515	2107	2112	2118	rBV2	48120	108912	2.07%	0.311%
21	15.157	2217	2221	2226	rBV	41070	68220	1.30%	0.195%
22	15.510	2275	2281	2287	rBV	825165	1304961	24.79%	3.732%
23	16.057	2369	2374	2397	rVB3	36639	146812	2.79%	0.420%
24	16.504	2446	2450	2465	rVB5	32021	66911	1.27%	0.191%

Sum of corrected areas: 34963770

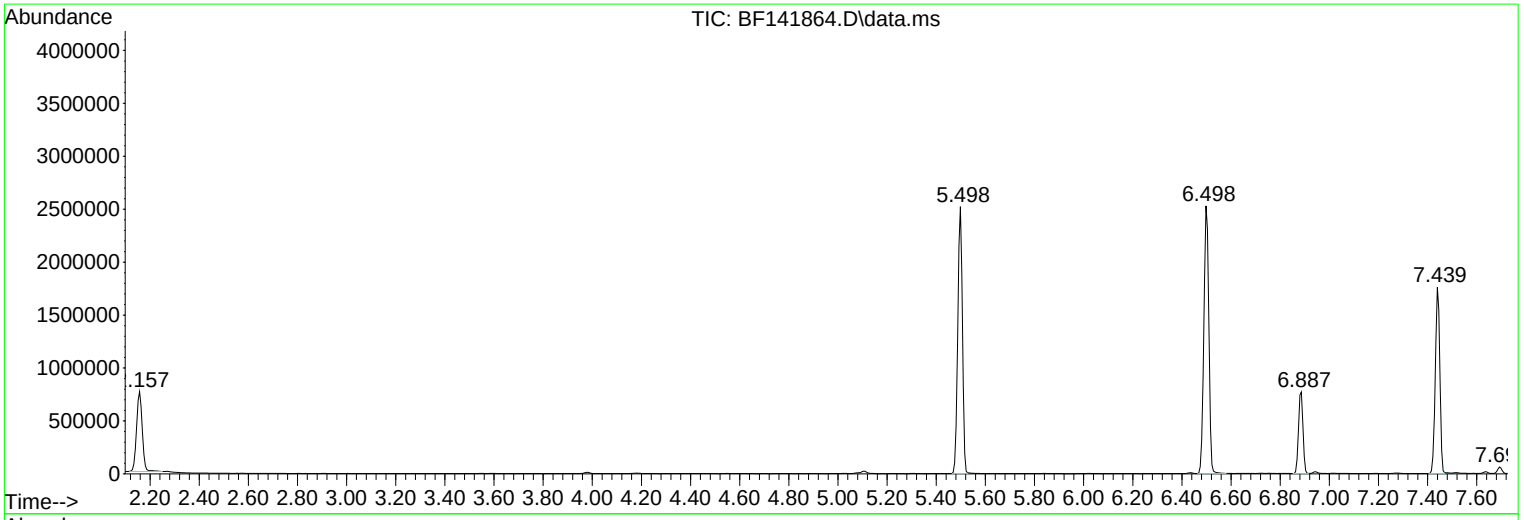
Sample Results: **BF141864.D**

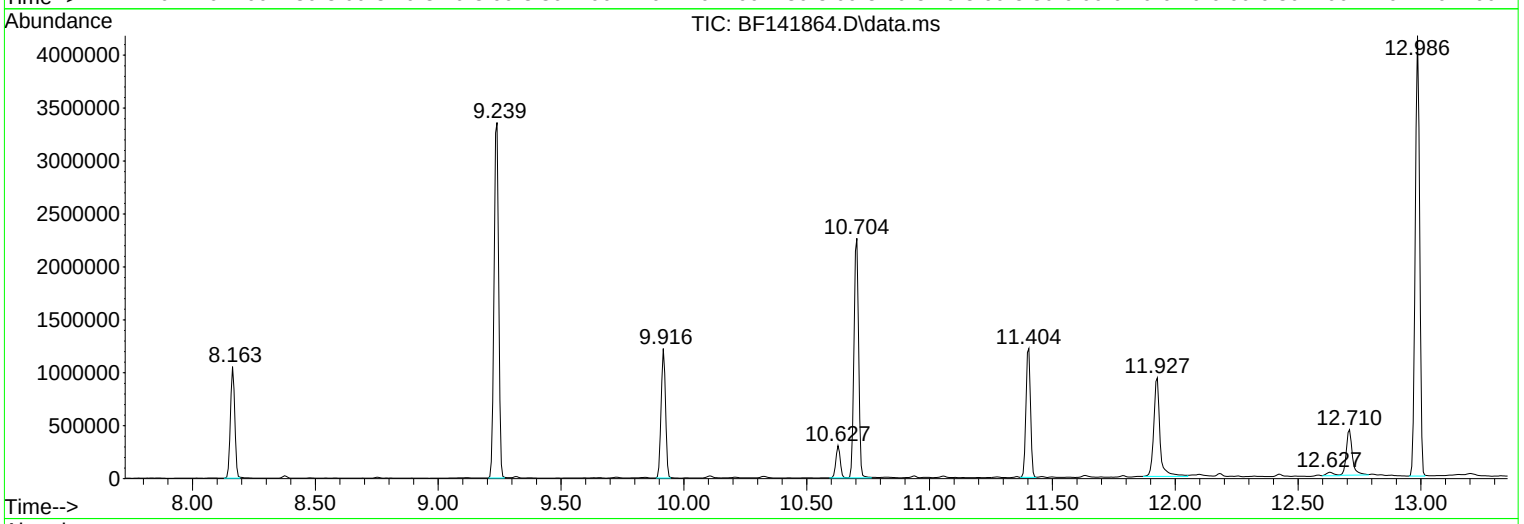
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

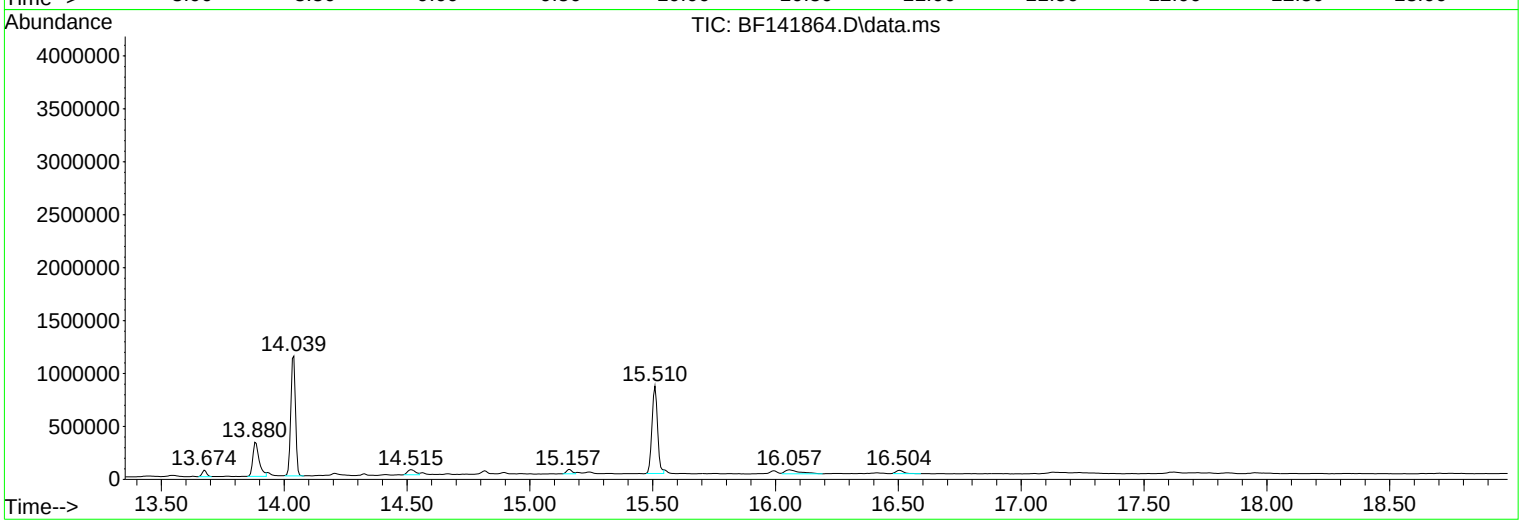
Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Sample Results: **BF141864.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

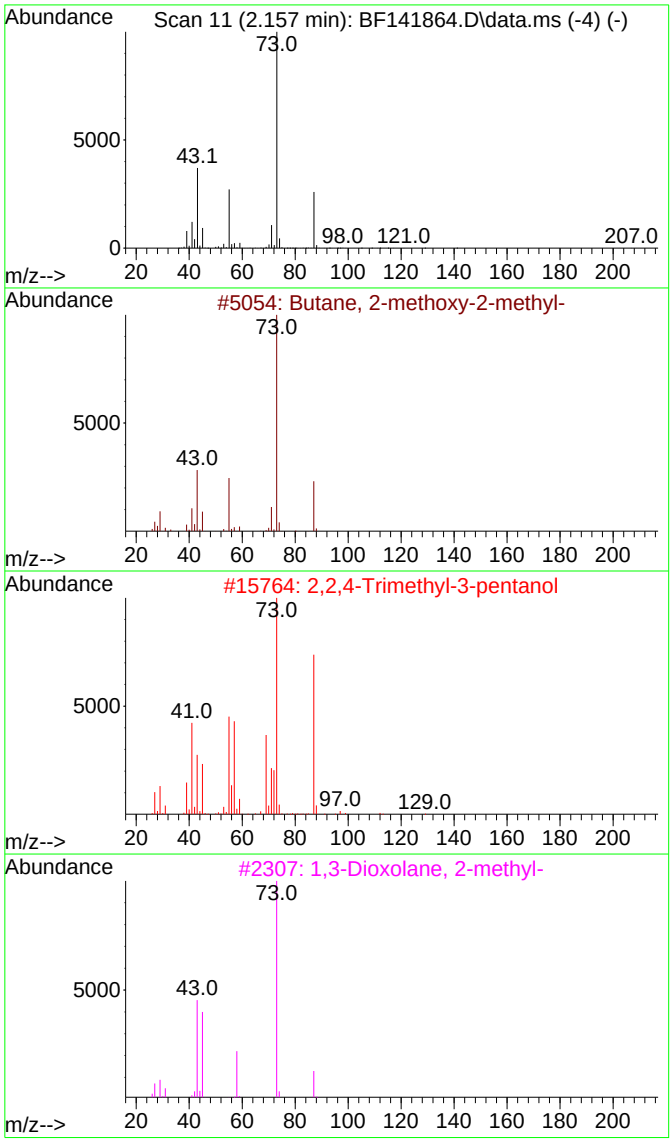
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

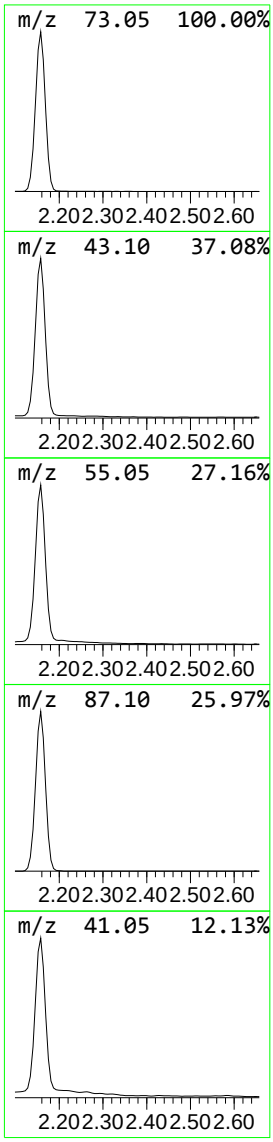
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.157	25.01 ng	1215770	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	37
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
5	Silane, tetramethyl-	88	C4H12Si	000075-76-3	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

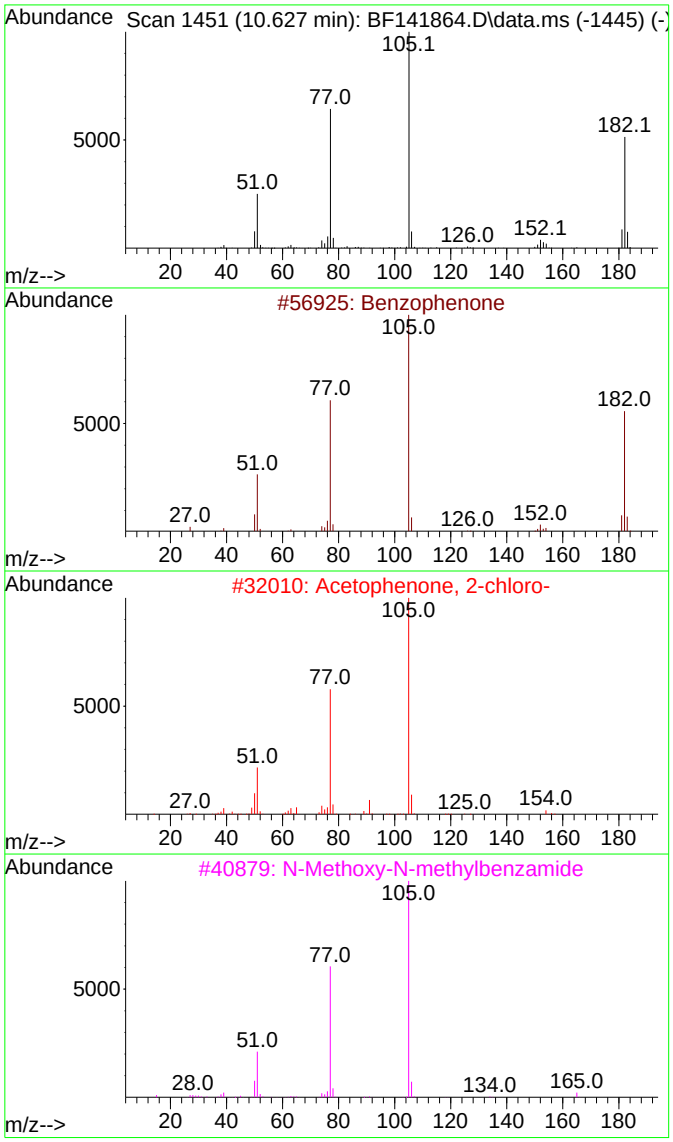
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

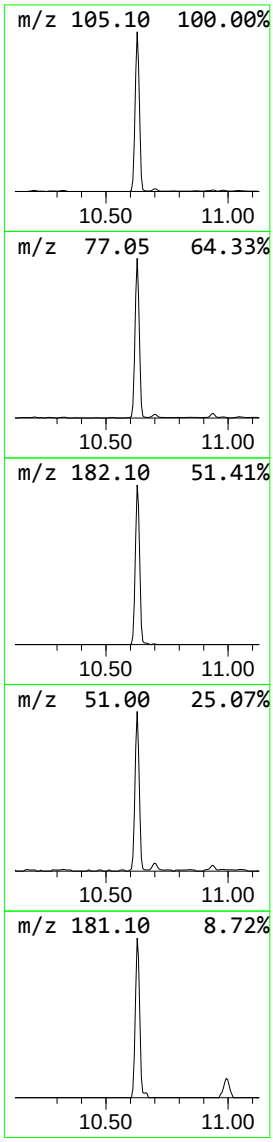
****

Peak Number 2 Benzophenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.628	5.00 ng	375163	Acenaphthene-d10	9.916

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	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47
4	N-Methylbenzamide, N-trifluoroac...	231	C10H8F3NO2	1000446-91-5	47
5	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

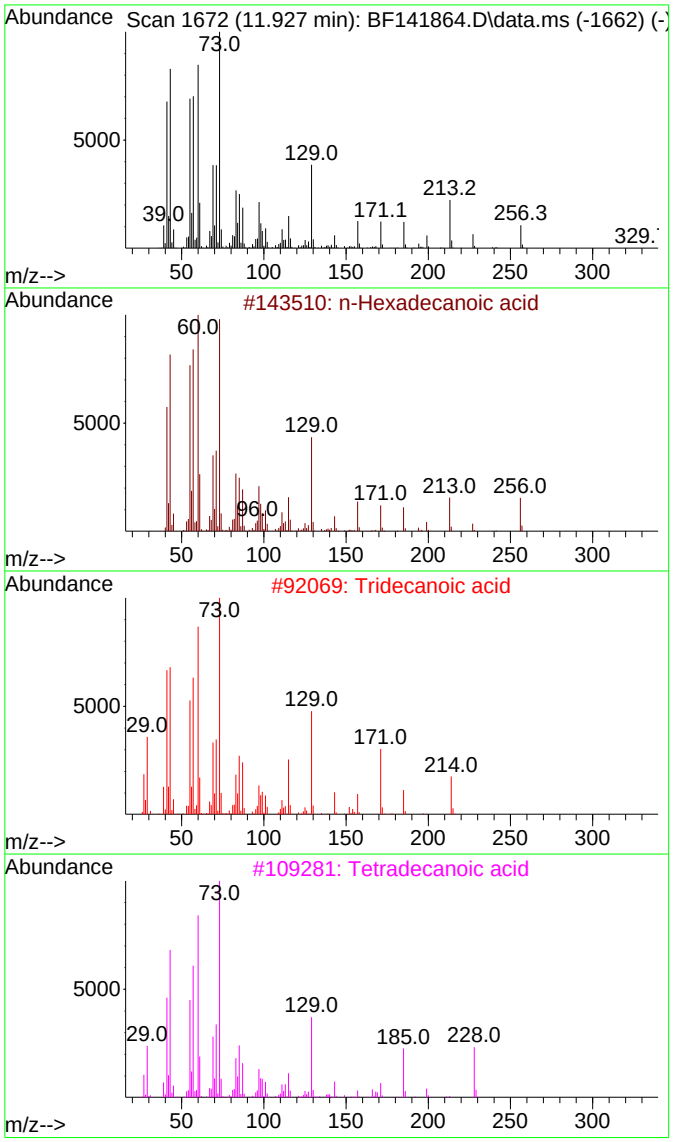
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

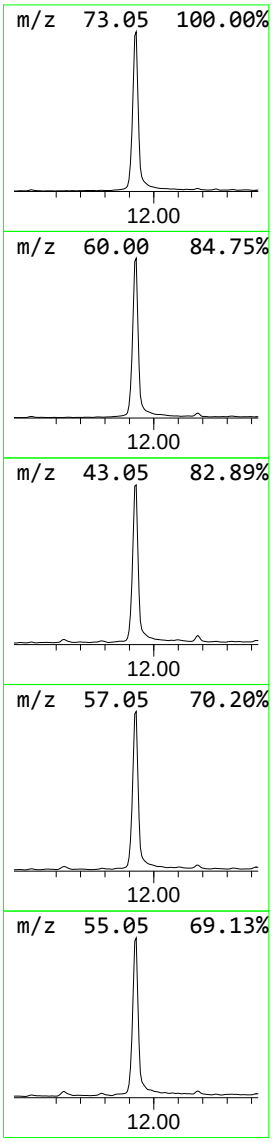
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.927	20.88 ng	1631920	Phenanthrene-d10	11.404

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	95
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	94
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
5	n-Decanoic acid	172	C10H20O2	000334-48-5	62





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

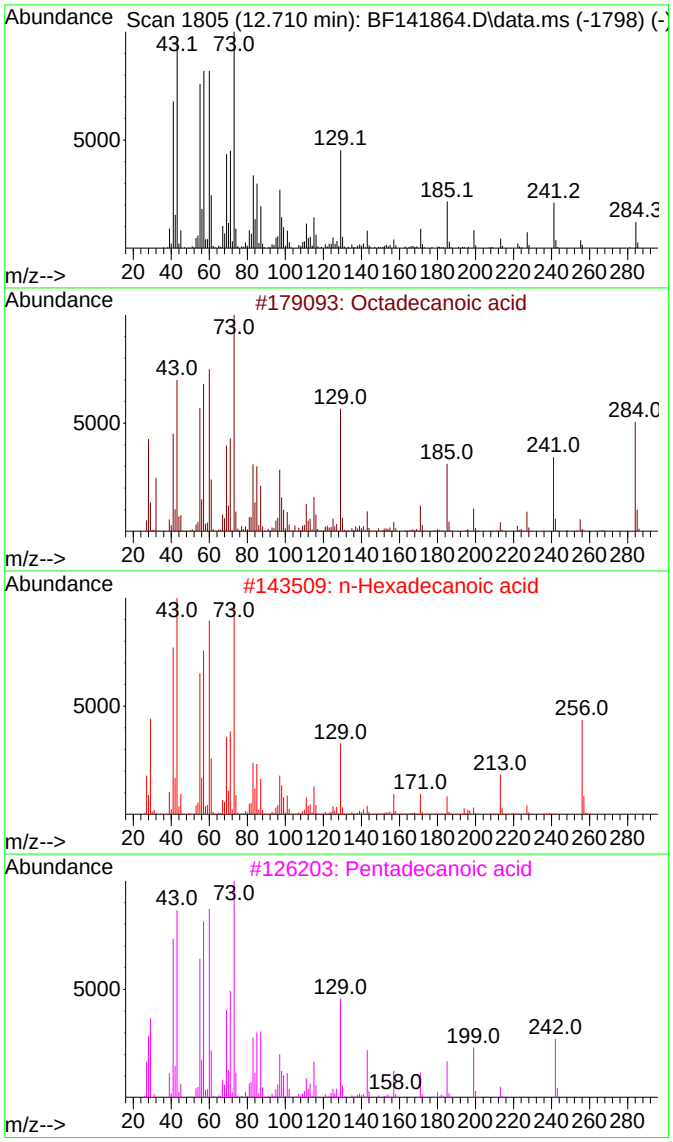
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

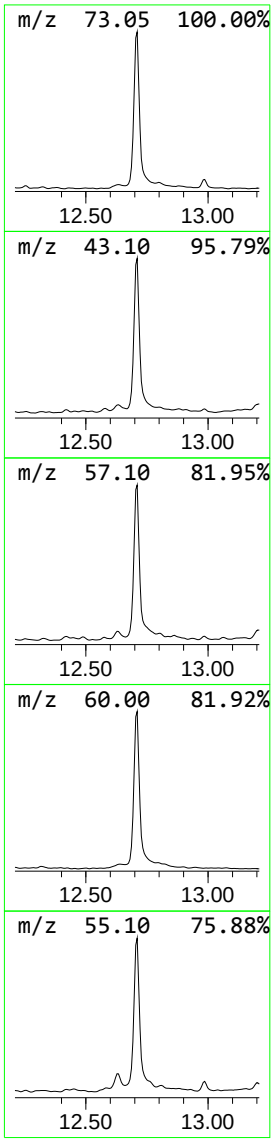
****

Peak Number 4 Octadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.710	9.21 ng	719514	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	93
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	89
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	87
5	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	80





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

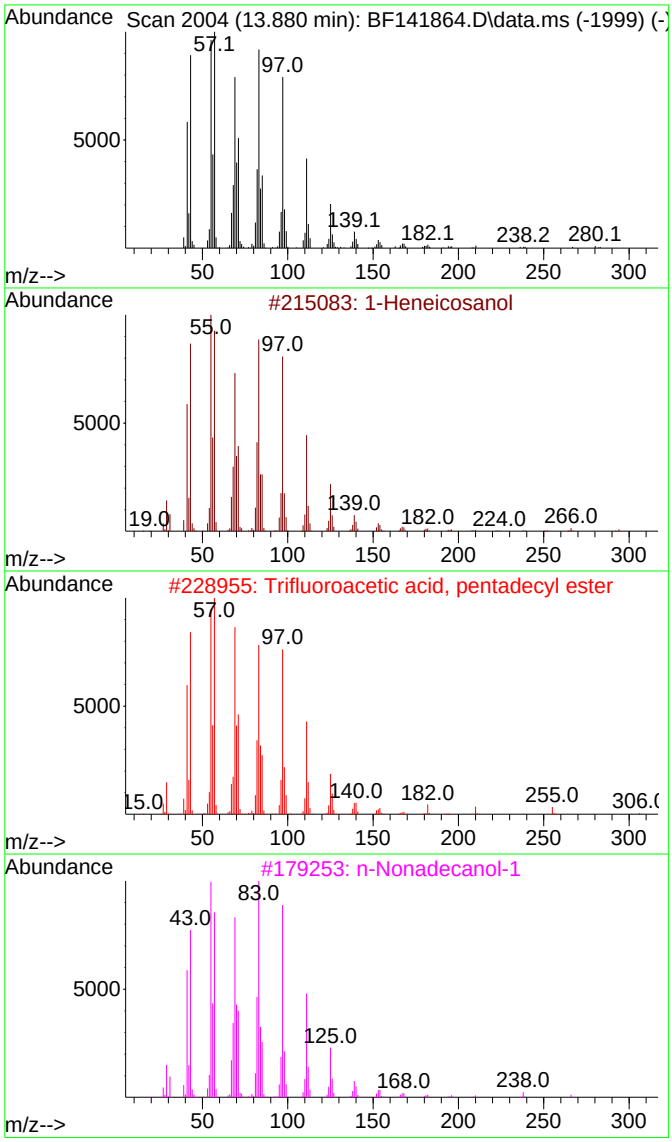
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

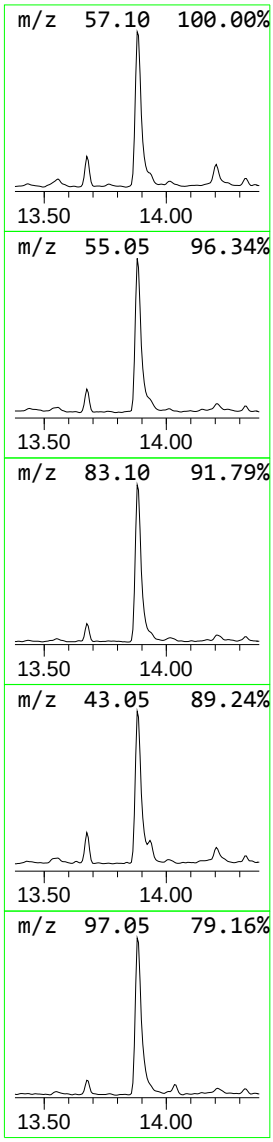
****

Peak Number 5 1-Heneicosanol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.880	7.77 ng	584000	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	95
2	Trifluoroacetic acid, pentadecyl...	324	C17H31F3O2	959010-23-2	94
3	n-Nonadecanol-1	284	C19H40O	001454-84-8	94
4	1-Tetracosene	336	C24H48	010192-32-2	94
5	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

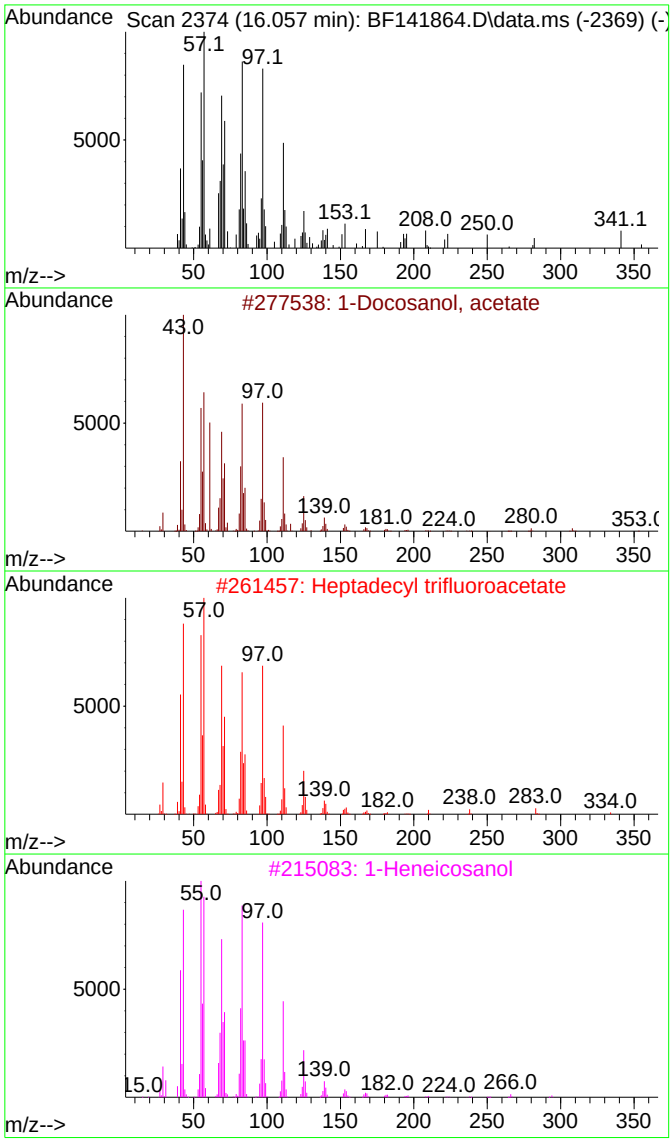
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

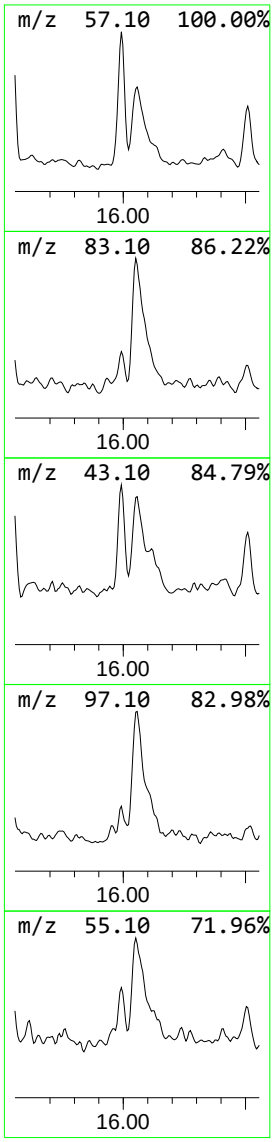
****

Peak Number 6 1-Docosanol, acetate Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.057	2.25 ng	146812	Perylene-d12	15.509

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosanol, acetate	368	C24H48O2	000822-26-4	91
2	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	91
3	1-Heneicosanol	312	C21H44O	015594-90-8	90
4	1-Hexacosanol	382	C26H54O	000506-52-5	90
5	Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	90





Sample Results: **BF141864.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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
Butane, 2-metho...	2.157	25.0	ng	1215770	1	6.887	972326	20.0
Benzophenone	10.628	5.0	ng	375163	3	9.916	1501910	20.0
n-Hexadecanoic ...	11.927	20.9	ng	1631920	4	11.404	1563250	20.0
Octadecanoic acid	12.710	9.2	ng	719514	4	11.404	1563250	20.0
1-Heneicosanol	13.880	7.8	ng	584000	5	14.039	1503840	20.0
1-Docosanol, ac...	16.057	2.3	ng	146812	6	15.509	1304960	20.0

Raw Data: **BF141843.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-09	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141843.D	1	03/05/25 09:40	03/05/25 14:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	220	U	220	400	ug/Kg
108-95-2	Phenol	100	U	100	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	100	U	100	210	ug/Kg
95-57-8	2-Chlorophenol	100	U	100	210	ug/Kg
95-48-7	2-Methylphenol	97.5	U	97.5	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	UQ	110	210	ug/Kg
98-86-2	Acetophenone	110	U	110	210	ug/Kg
65794-96-9	3+4-Methylphenols	96.5	U	96.5	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	48.7	U	48.7	96.8	ug/Kg
67-72-1	Hexachloroethane	100	U	100	210	ug/Kg
98-95-3	Nitrobenzene	110	U	110	210	ug/Kg
78-59-1	Isophorone	100	U	100	210	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	210	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	100	U	100	210	ug/Kg
120-83-2	2,4-Dichlorophenol	91.3	U	91.3	210	ug/Kg
91-20-3	Naphthalene	99.9	U	99.9	210	ug/Kg
106-47-8	4-Chloroaniline	99.9	UQ	99.9	210	ug/Kg
87-68-3	Hexachlorobutadiene	100	U	100	210	ug/Kg
105-60-2	Caprolactam	100	U	100	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	93.7	U	93.7	210	ug/Kg
91-57-6	2-Methylnaphthalene	99.8	U	99.8	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	190	U	190	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	86.4	U	86.4	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	89.5	U	89.5	210	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	100	U	100	210	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	210	ug/Kg
131-11-3	Dimethylphthalate	98.8	U	98.8	210	ug/Kg

Raw Data: **BF141843.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-09	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141843.D	1	03/05/25 09:40	03/05/25 14:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	100	U	100	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	100	U	100	210	ug/Kg
99-09-2	3-Nitroaniline	110	UQ	110	210	ug/Kg
83-32-9	Acenaphthene	98.1	U	98.1	210	ug/Kg
51-28-5	2,4-Dinitrophenol	290	U	290	400	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	400	ug/Kg
132-64-9	Dibenzofuran	100	U	100	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	100	U	100	210	ug/Kg
84-66-2	Diethylphthalate	96.9	U	96.9	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	100	U	100	210	ug/Kg
86-73-7	Fluorene	100	U	100	210	ug/Kg
100-01-6	4-Nitroaniline	130	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	U	140	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	98.7	U	98.7	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	95.4	U	95.4	210	ug/Kg
118-74-1	Hexachlorobenzene	100	U	100	210	ug/Kg
1912-24-9	Atrazine	110	U	110	210	ug/Kg
87-86-5	Pentachlorophenol	93.5	U	93.5	400	ug/Kg
85-01-8	Phenanthrene	100	U	100	210	ug/Kg
120-12-7	Anthracene	100	U	100	210	ug/Kg
86-74-8	Carbazole	97.1	U	97.1	210	ug/Kg
84-74-2	Di-n-butylphthalate	100	U	100	210	ug/Kg
206-44-0	Fluoranthene	120	J	98.8	210	ug/Kg
129-00-0	Pyrene	100	U	100	210	ug/Kg
85-68-7	Butylbenzylphthalate	120	U	120	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	120	UQ	120	400	ug/Kg
56-55-3	Benzo(a)anthracene	97.6	U	97.6	210	ug/Kg
218-01-9	Chrysene	98.1	J	96.2	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	210	ug/Kg
117-84-0	Di-n-octyl phthalate	130	U	130	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	130	J	98.1	210	ug/Kg

Raw Data: **BF141843.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-09	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141843.D	1	03/05/25 09:40	03/05/25 14:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	99.9	U	99.9	210	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	94.5	U	94.5	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	98.2	U	98.2	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	96.9	U	96.9	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	100	U	100	210	ug/Kg
123-91-1	1,4-Dioxane	130	U	130	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	90.3	U	90.3	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	86.9		30 (18) - 130 (112)	58%	SPK: 150
13127-88-3	Phenol-d6	83.5		30 (15) - 130 (107)	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	72.1		30 (18) - 130 (107)	72%	SPK: 100
321-60-8	2-Fluorobiphenyl	55.5		30 (20) - 130 (109)	56%	SPK: 100
118-79-6	2,4,6-Tribromophenol	81.7		30 (10) - 130 (116)	54%	SPK: 150
1718-51-0	Terphenyl-d14	36.3		30 (10) - 130 (105)	36%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	193000	6.887			
1146-65-2	Naphthalene-d8	726000	8.163			
15067-26-2	Acenaphthene-d10	362000	9.916			
1517-22-2	Phenanthrene-d10	552000	11.404			
1719-03-5	Chrysene-d12	436000	14.033			
1520-96-3	Perylene-d12	488000	15.51			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	1300	JB		2.17	ug/Kg
000119-61-9	Benzophenone	200	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	310	J		11.9	ug/Kg
000119-65-3	Isoquinoline	97.2	J		12.1	ug/Kg
1000406-04-8	Pentadecafluorooctanoic acid, octa	130	J		13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	80.6	J		15.4	ug/Kg

Raw Data: **BF141843.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-09	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141843.D	1	03/05/25 09:40	03/05/25 14:52	PB166984

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: **BF141843.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

Quant Time: Mar 05 15:14:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	192627	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	725608	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	362334	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	551877	20.000	ng	0.00
76) Chrysene-d12	14.033	240	435864	20.000	ng	-0.02
86) Perylene-d12	15.510	264	488168	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1048419	86.920	ng	0.00
7) Phenol-d6	6.498	99	1311040	83.508	ng	-0.01
23) Nitrobenzene-d5	7.440	82	818591	72.111	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	277953	81.711	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	1254219	55.503	ng	0.00
79) Terphenyl-d14	12.986	244	978122	36.308	ng	-0.01
Target Compounds						Qvalue
75) Fluoranthene	12.610	202	89800	2.969	ng	98
78) Pyrene	12.839	202	84804	2.247	ng	100
83) Chrysene	14.063	228	64592	2.434	ng	96
88) Benzo(b)fluoranthene	15.074	252	104685m	3.148	ng	
90) Benzo(a)pyrene	15.445	252	61441	2.304	ng	97

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

Sample Results: **BF141843.D**

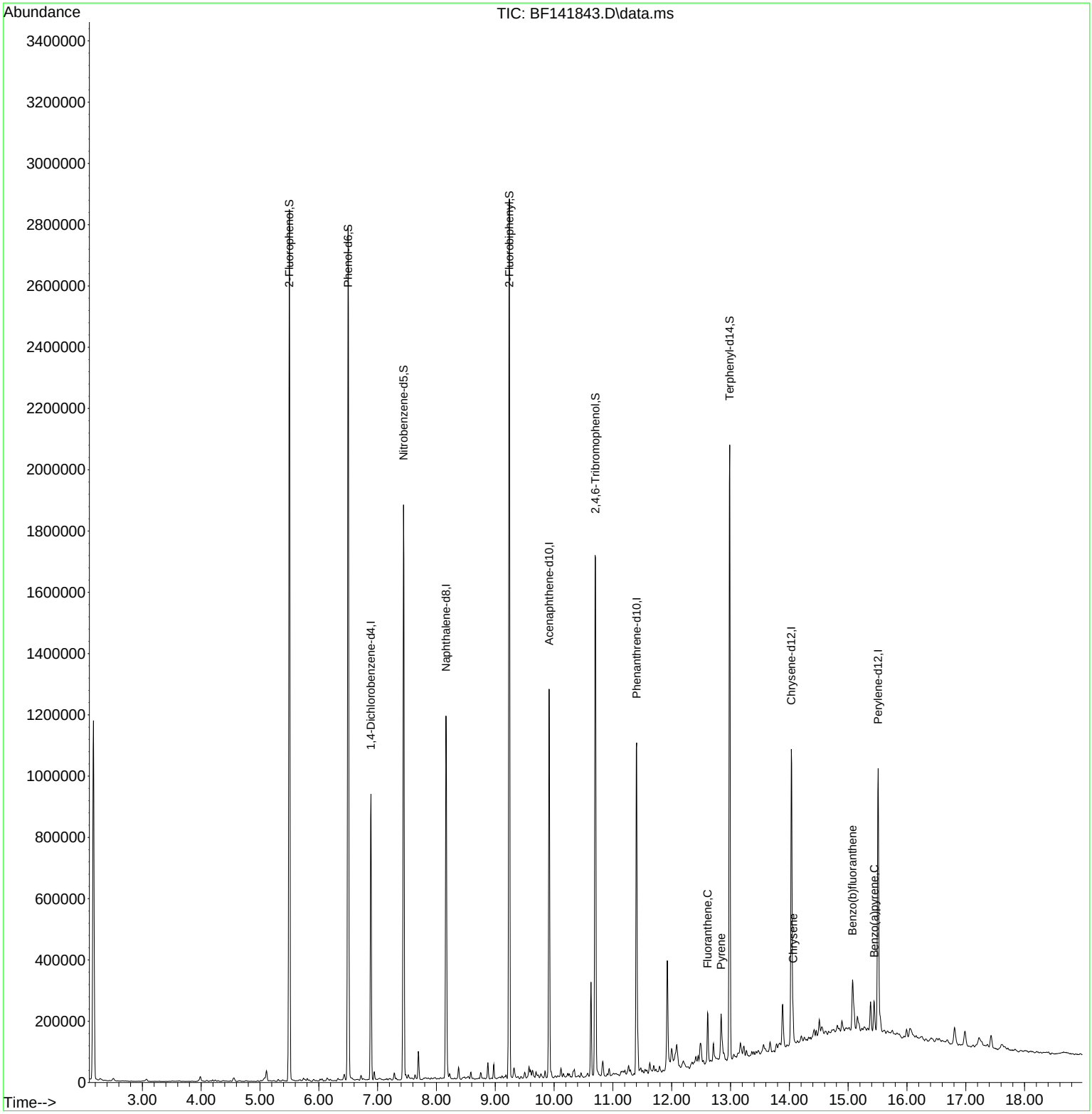
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

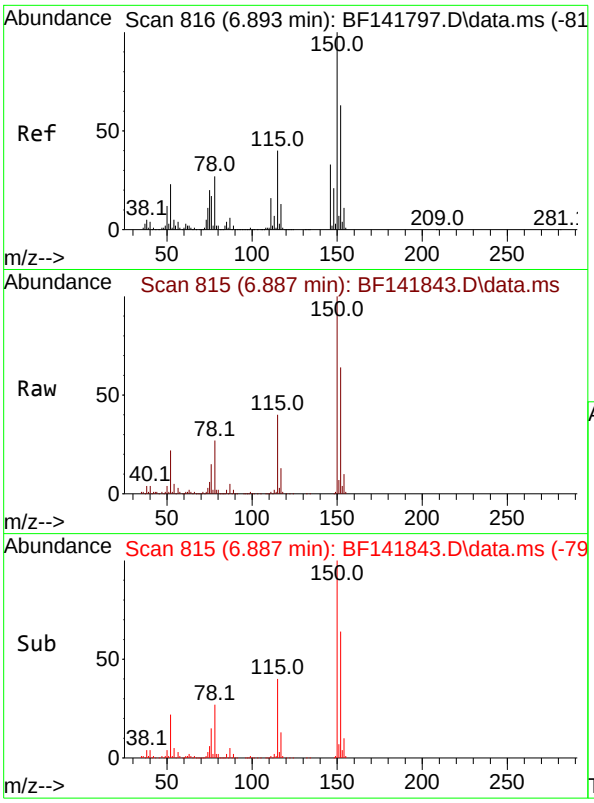
Quant Time: Mar 05 15:14:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

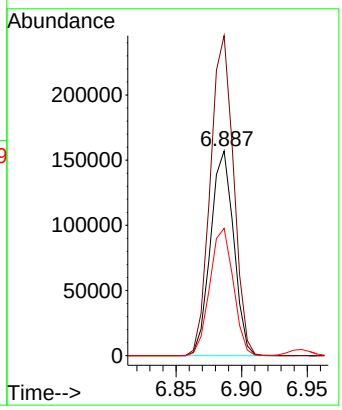




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:152 Resp: 19262

Ion	Ratio	Lower	Upper
152	100		
150	156.2	127.5	191.3
115	62.2	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Manual Integrations
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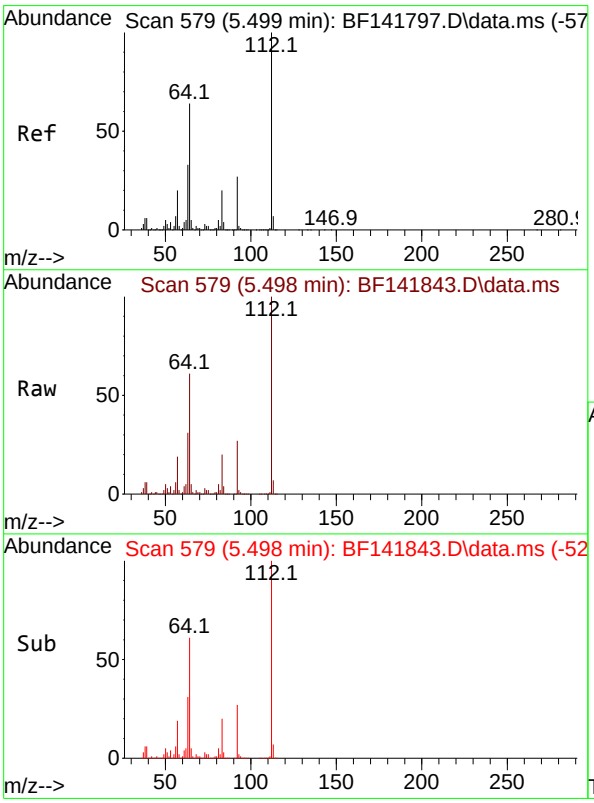
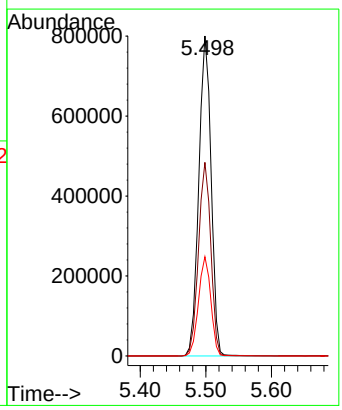
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

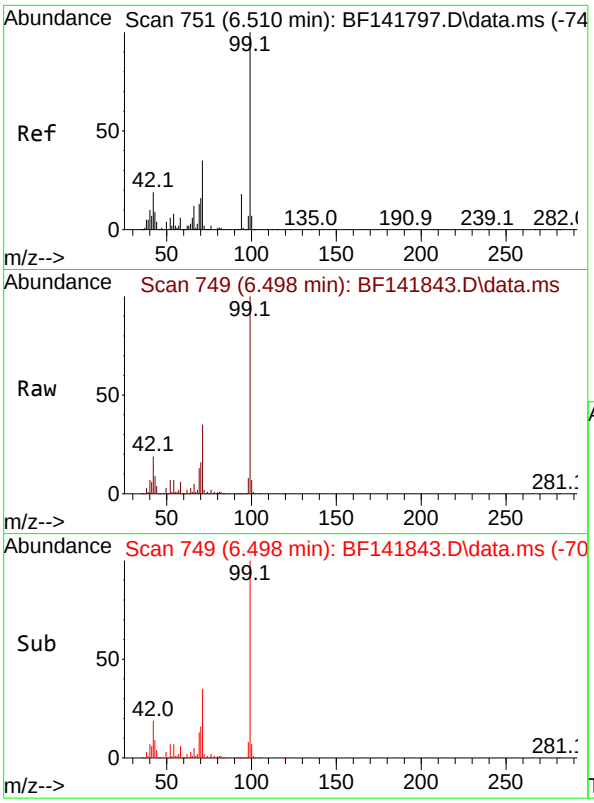


#5
2-Fluorophenol
Concen: 86.920 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:112 Resp: 1048419

Ion	Ratio	Lower	Upper
112	100		
64	60.5	51.3	76.9
63	31.0	26.2	39.4

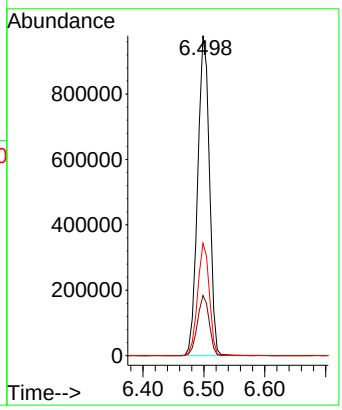




#7
Phenol-d6
Concen: 83.508 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion: 99 Resp: 131104

Ion	Ratio	Lower	Upper
99	100		
42	18.8	15.2	22.8
71	35.1	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Manual Integrations
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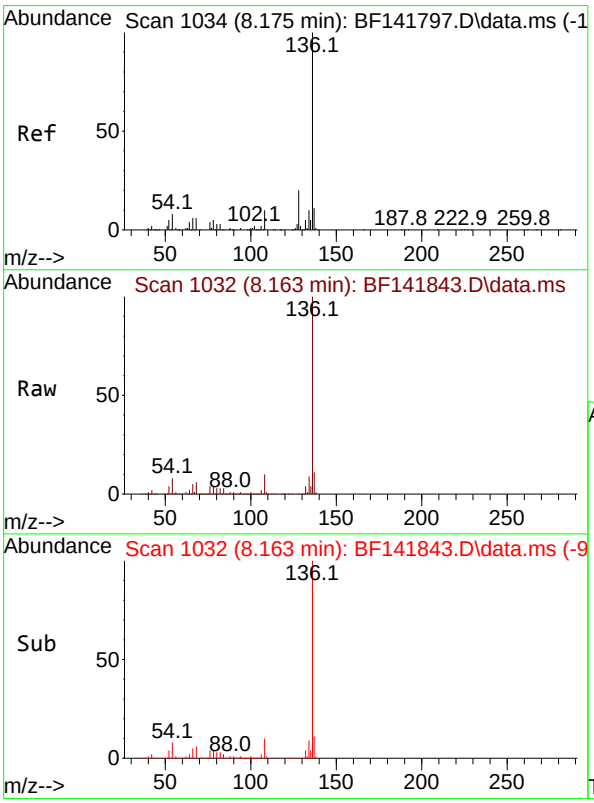
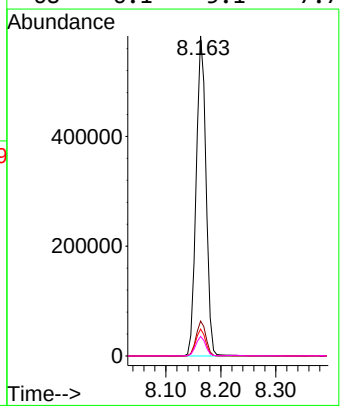
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

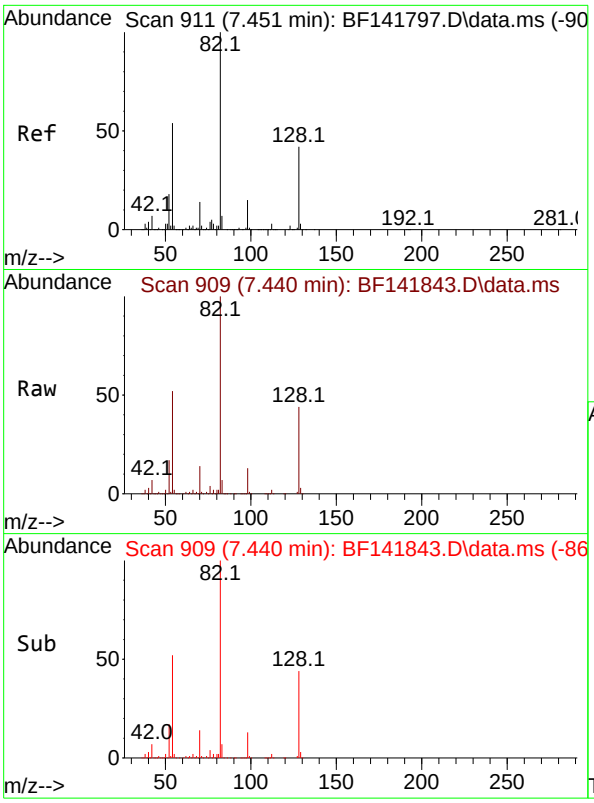


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:136 Resp: 725608

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	8.4	6.9	10.3
68	6.1	5.1	7.7

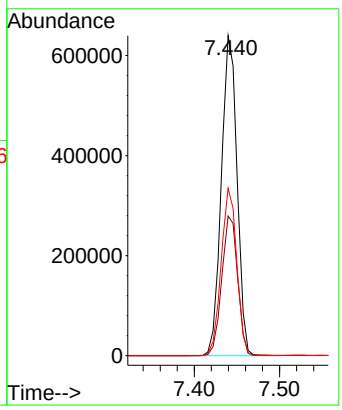




#23
Nitrobenzene-d5
Concen: 72.111 ng
RT: 7.440 min Scan# 9(
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion: 82 Resp: 81859

Ion	Ratio	Lower	Upper
82	100		
128	43.7	33.5	50.3
54	52.3	42.7	64.1



Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

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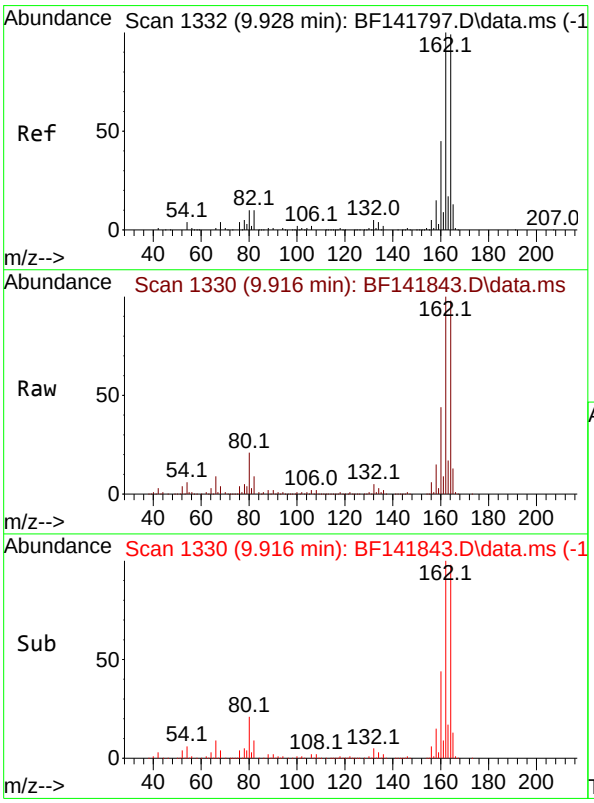
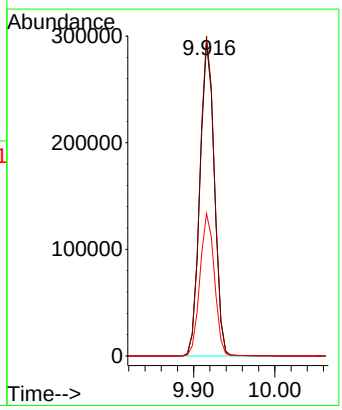
Supervised By :Jagrut Upadhyay 03/06/2025

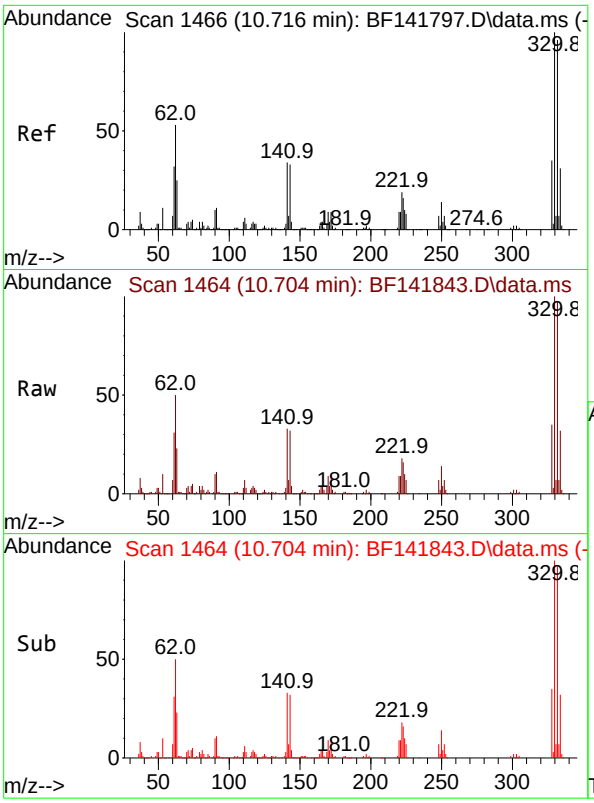


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:164 Resp: 362334

Ion	Ratio	Lower	Upper
164	100		
162	102.1	80.6	120.8
160	45.4	36.3	54.5





#42
2,4,6-Tribromophenol
Concen: 81.711 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:330 Resp: 27795

Ion	Ratio	Lower	Upper
330	100		
332	96.1	76.6	115.0
141	35.7	29.0	43.4

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Manual Integrations
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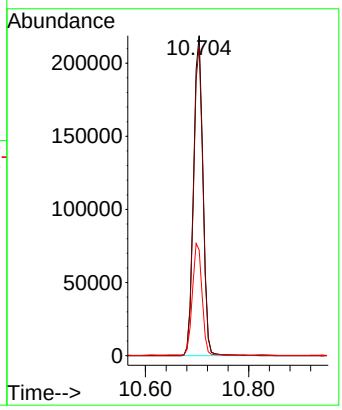
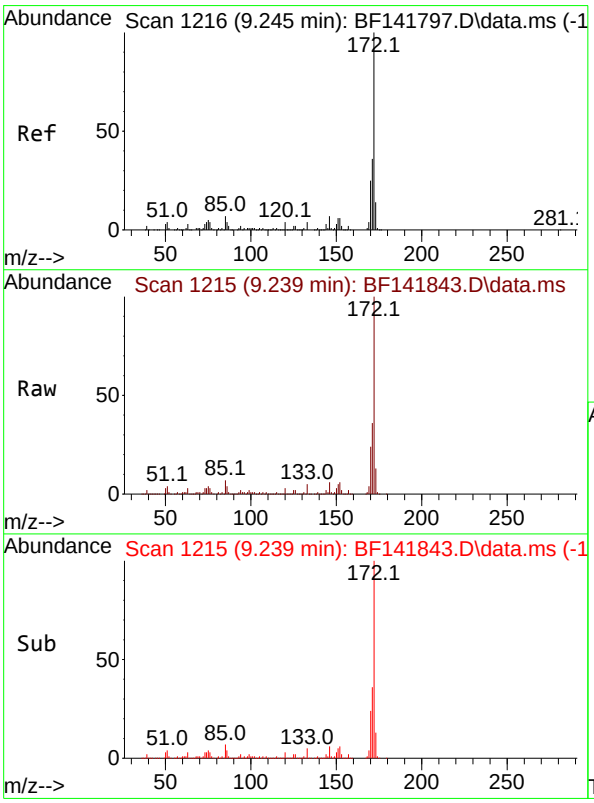
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

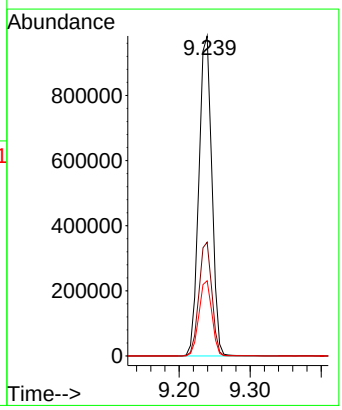


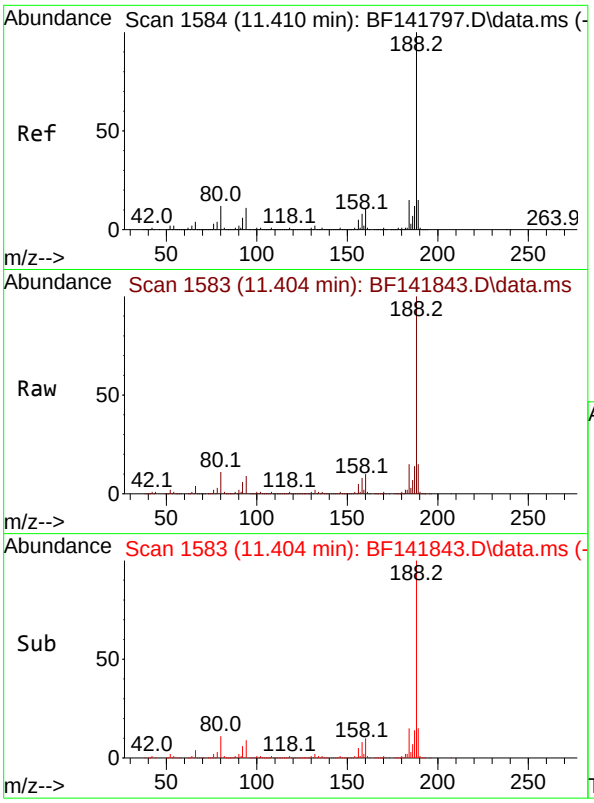


#45
2-Fluorobiphenyl
Concen: 55.503 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:172 Resp: 1254219

Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.2	43.8
170	23.5	19.7	29.5

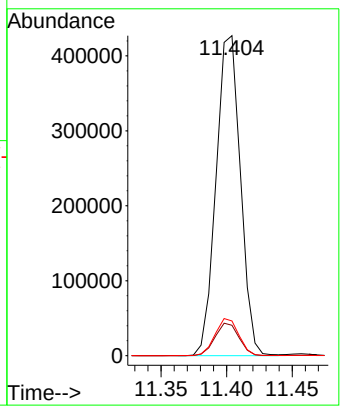




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:188 Resp: 55187

Ion	Ratio	Lower	Upper
188	100		
94	9.5	8.9	13.3
80	10.8	9.7	14.5



Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Manual Integrations
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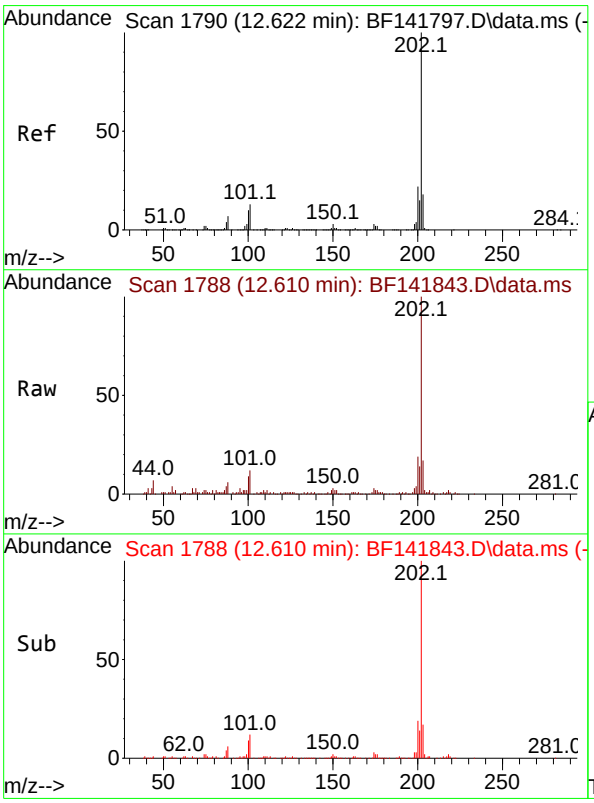
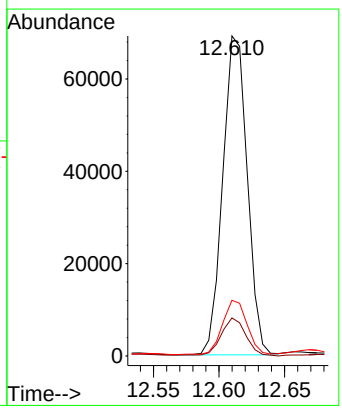
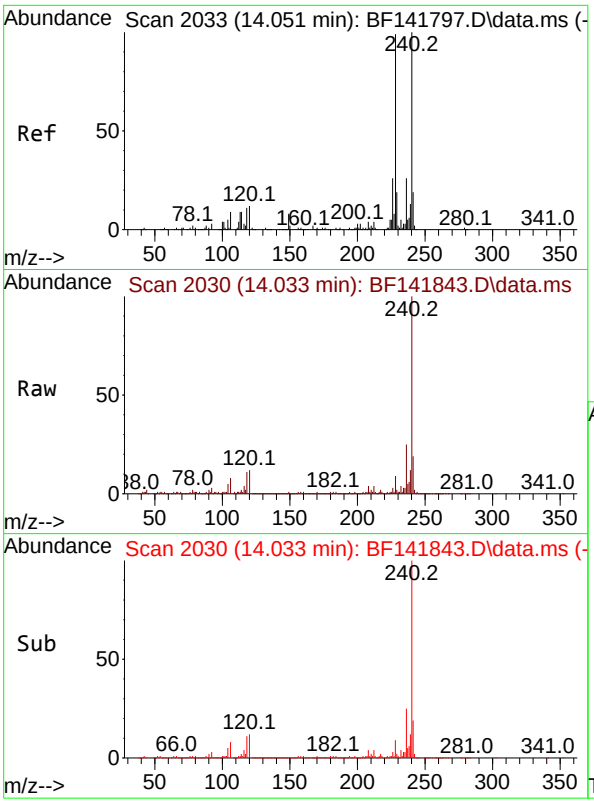


#75
Fluoranthene
Concen: 2.969 ng
RT: 12.610 min Scan# 1788
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:202 Resp: 89800

Ion	Ratio	Lower	Upper
202	100		
101	11.9	0.0	32.8
203	17.4	0.0	38.0

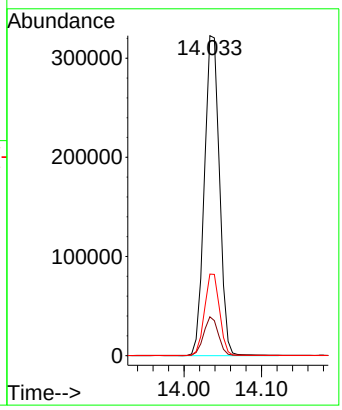




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:240 Resp: 43586

Ion	Ratio	Lower	Upper
240	100		
120	12.2	9.7	14.5
236	25.5	21.0	31.4



Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Manual Integrations
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Reviewed By :Anahy Claudio 03/06/2025
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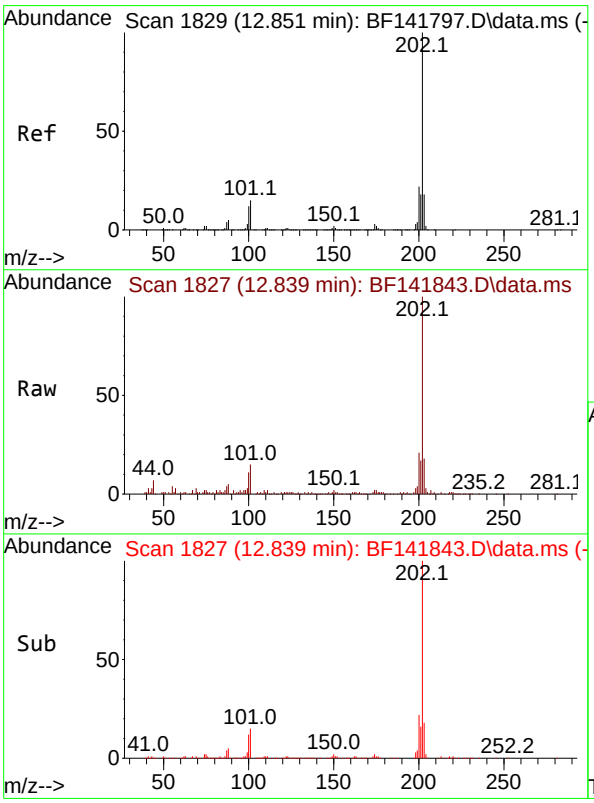
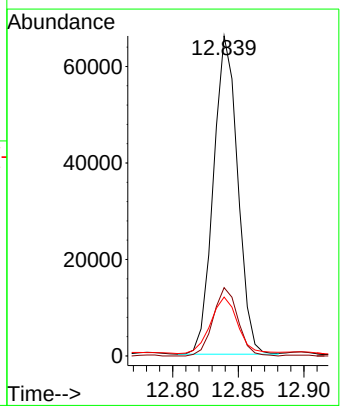
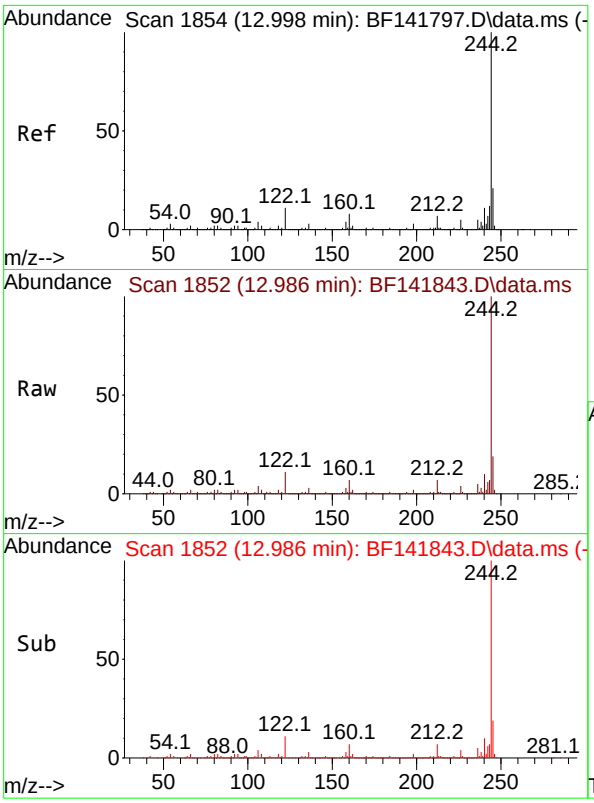


#78
Pyrene
Concen: 2.247 ng
RT: 12.839 min Scan# 1827
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:202 Resp: 84804

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.4	26.0
203	18.4	14.6	22.0

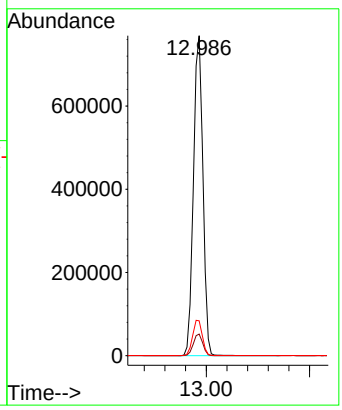




#79
Terphenyl-d14
Concen: 36.308 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:244 Resp: 97812

Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.0	9.0
122	10.9	9.0	13.6



Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

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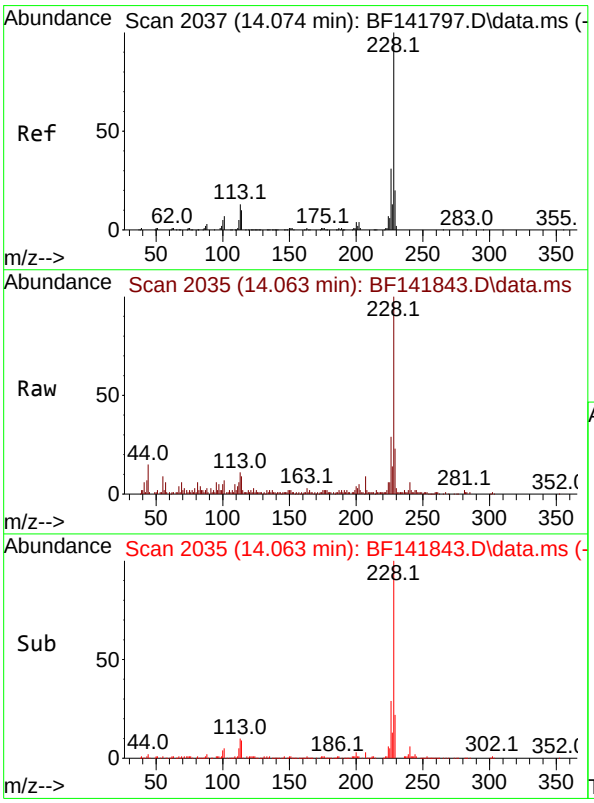
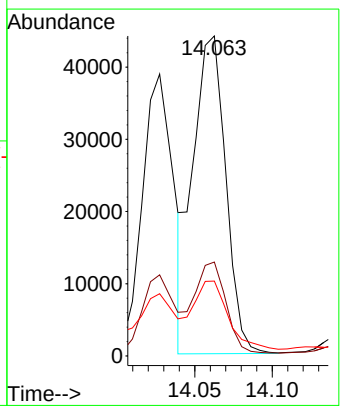
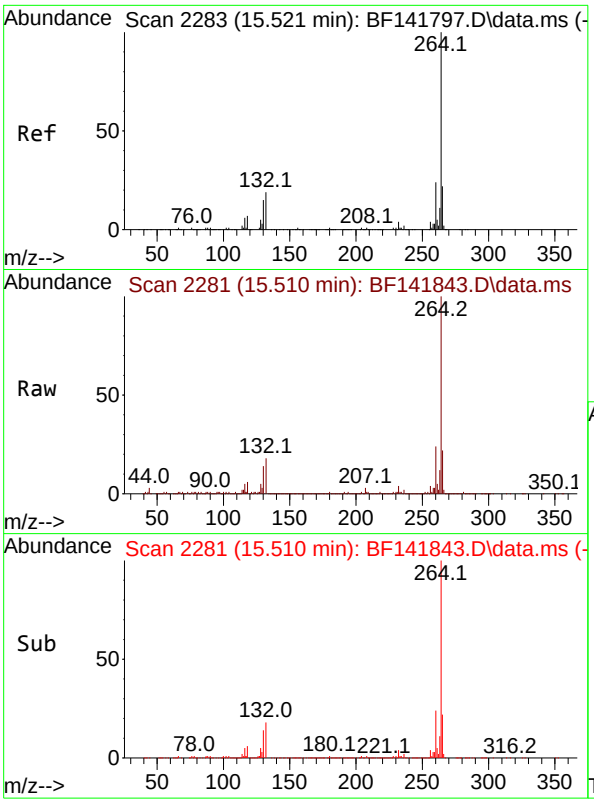


#83
Chrysene
Concen: 2.434 ng
RT: 14.063 min Scan# 2035
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:228 Resp: 64592

Ion	Ratio	Lower	Upper
228	100		
226	29.4	24.6	37.0
229	23.4	16.1	24.1

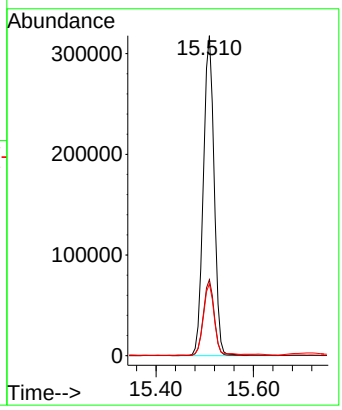




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:264 Resp: 48816

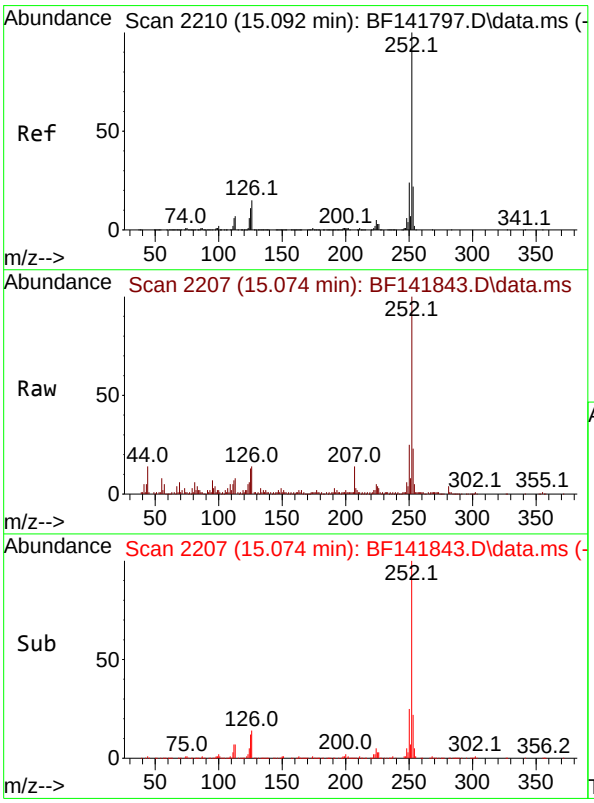
Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.9	28.3
265	22.4	17.4	26.0



Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Manual Integrations
APPROVED

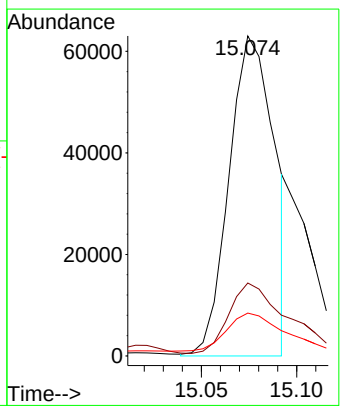
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

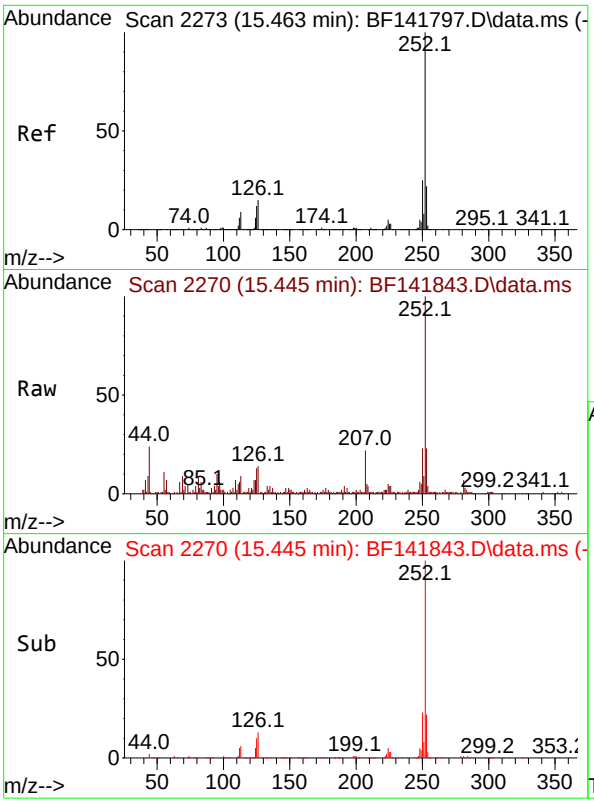


#88
Benzo(b)fluoranthene
Concen: 3.148 ng m
RT: 15.074 min Scan# 2207
Delta R.T. -0.018 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:252 Resp: 104685

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.7	26.5
125	13.4	8.6	13.0#

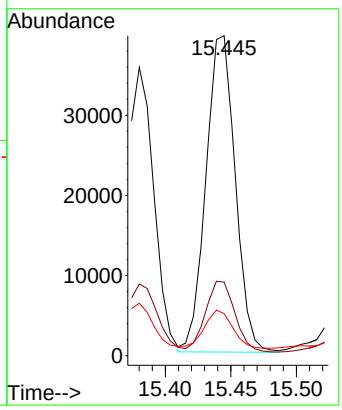




#90
Benzo(a)pyrene
Concen: 2.304 ng
RT: 15.445 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:252 Resp: 6144

Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	13.1	9.4	14.2



Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

Sample Results: **BF141843.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

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-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141843.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.169	5	13	26	rVB	1173065	1864823	49.25%	5.714%
2	5.110	509	513	519	rVB2	33303	53879	1.42%	0.165%
3	5.498	573	579	584	rBV	2844702	3713108	98.07%	11.378%
4	6.498	743	749	759	rBV	2781960	3786299	100.00%	11.602%
5	6.887	809	815	821	rVB	932841	1167396	30.83%	3.577%
6	7.440	901	909	914	rBV	1876660	2417207	63.84%	7.407%
7	7.692	948	952	958	rVB	91494	113787	3.01%	0.349%
8	8.163	1026	1032	1039	rBV	1182559	1510343	39.89%	4.628%
9	8.375	1063	1068	1076	rVB2	39940	58674	1.55%	0.180%
10	8.875	1146	1153	1158	rVB	53400	67758	1.79%	0.208%
11	8.975	1166	1170	1174	rBV	46299	54035	1.43%	0.166%
12	9.239	1209	1215	1220	rBV	2870613	3692003	97.51%	11.313%
13	9.322	1224	1229	1235	rVB2	31544	53959	1.43%	0.165%
14	9.575	1265	1272	1274	rBV	36053	52945	1.40%	0.162%
15	9.916	1324	1330	1335	rBV	1267609	1583722	41.83%	4.853%
16	10.628	1445	1451	1458	rBV	307754	387402	10.23%	1.187%
17	10.698	1458	1463	1478	rVV	1700314	2295535	60.63%	7.034%
18	10.828	1480	1485	1492	rVB2	47847	81799	2.16%	0.251%
19	11.269	1554	1560	1563	rBV3	27300	46927	1.24%	0.144%
20	11.404	1577	1583	1590	rBV	1082434	1549322	40.92%	4.747%
21	11.628	1616	1621	1628	rBV2	34722	66861	1.77%	0.205%
22	11.927	1664	1672	1680	rBV2	357903	603851	15.95%	1.850%
23	11.998	1680	1684	1689	rVV2	62673	135846	3.59%	0.416%
24	12.086	1692	1699	1705	rVB2	69049	186635	4.93%	0.572%
25	12.492	1763	1768	1773	rVB3	60057	116524	3.08%	0.357%
26	12.610	1784	1788	1794	rBV	159439	210613	5.56%	0.645%
27	12.710	1801	1805	1813	rBV2	58413	103736	2.74%	0.318%
28	12.839	1822	1827	1834	rBV2	145054	260460	6.88%	0.798%
29	12.986	1846	1852	1859	rVB	2004684	2598058	68.62%	7.961%
30	13.169	1880	1883	1889	rVB4	34463	53731	1.42%	0.165%
31	13.886	2000	2005	2014	rVB2	139274	243634	6.43%	0.747%
32	14.033	2025	2030	2044	rVB2	958697	1490757	39.37%	4.568%
33	15.074	2203	2207	2217	rVB	158723	318578	8.41%	0.976%
34	15.380	2255	2259	2265	rVB	94695	140356	3.71%	0.430%
35	15.439	2265	2269	2275	rVV	97908	153298	4.05%	0.470%
36	15.510	2275	2281	2293	rVB	859658	1401178	37.01%	4.293%

Sample Results: **BF141843.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

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-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Sum of corrected areas: 32635039

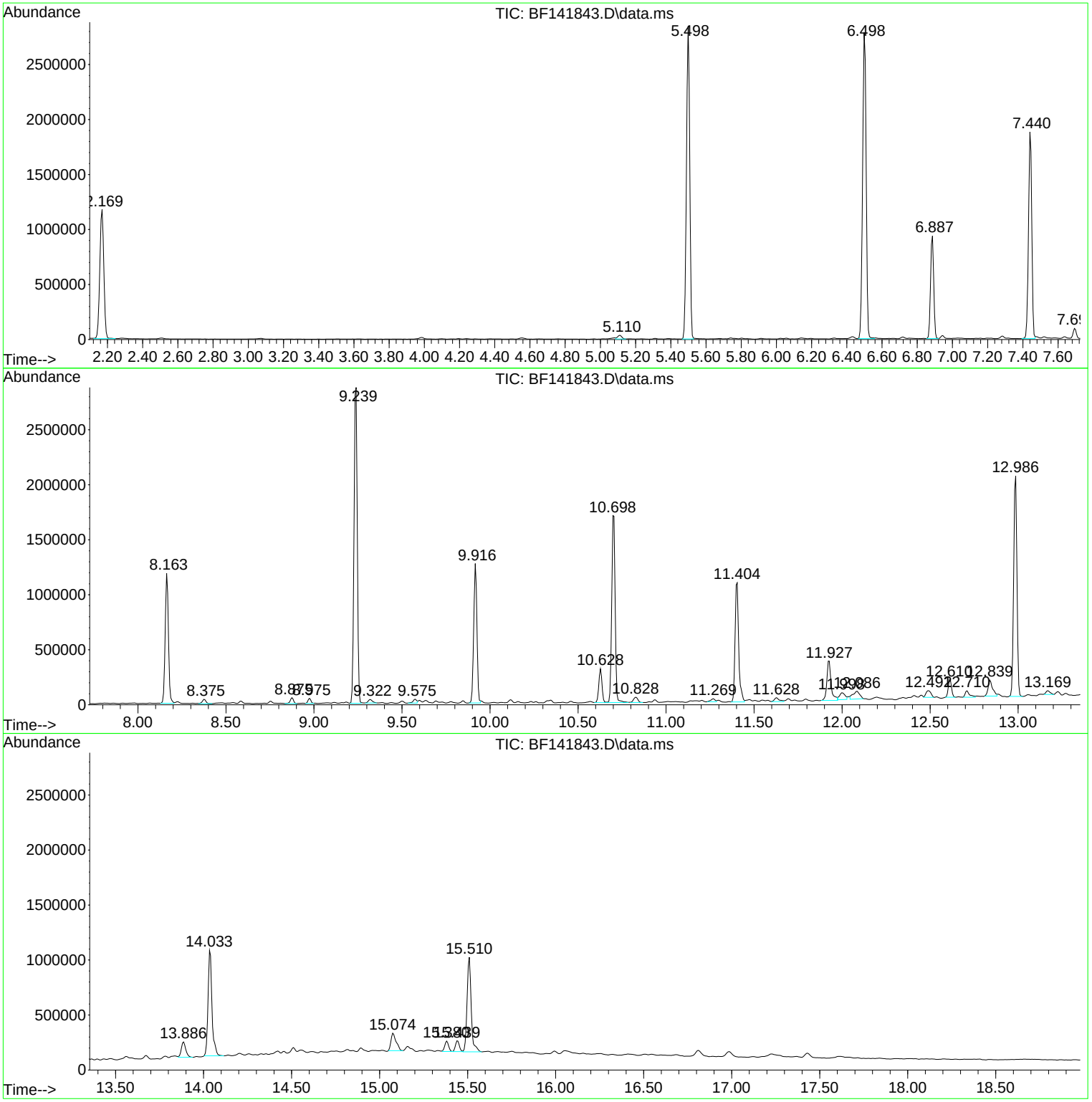
Sample Results: **BF141843.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Sample Results: **BF141843.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

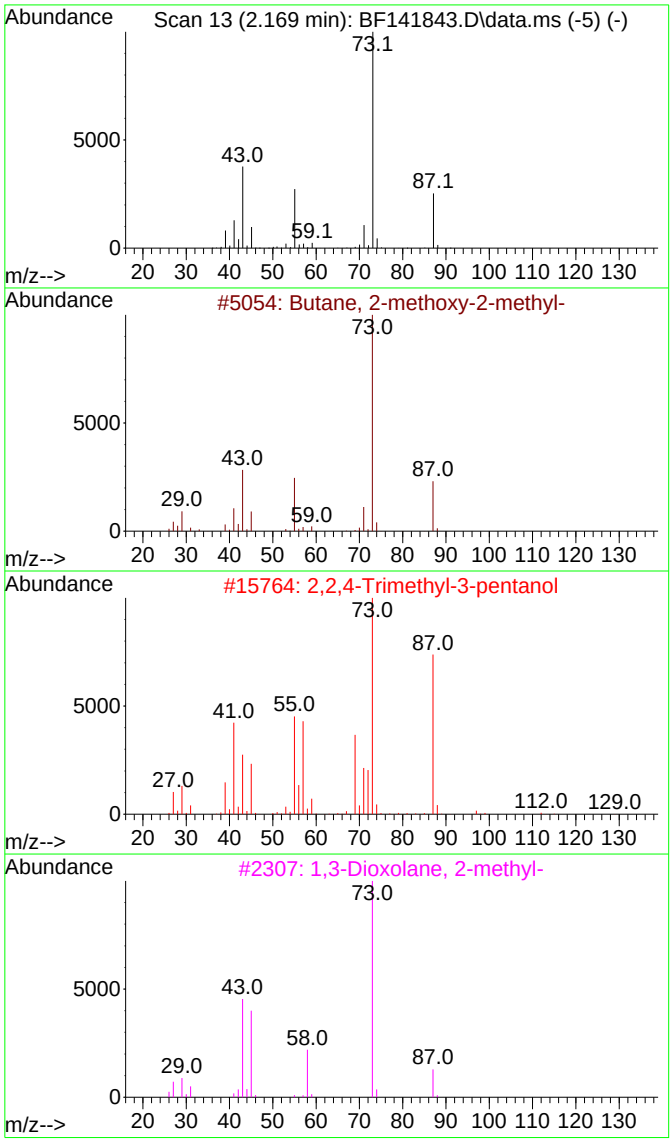
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

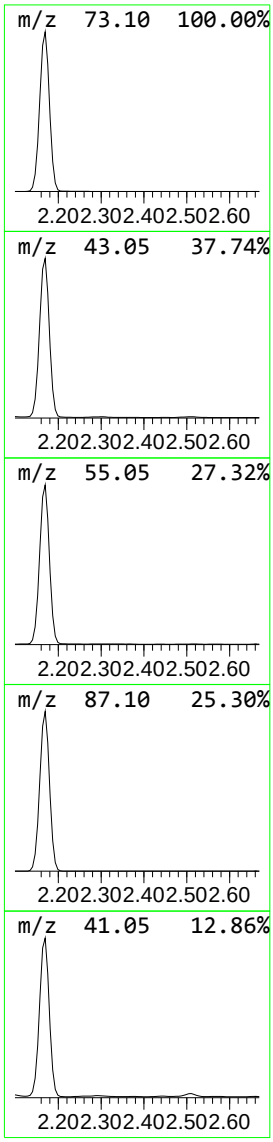
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.169	31.95 ng	1864820	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

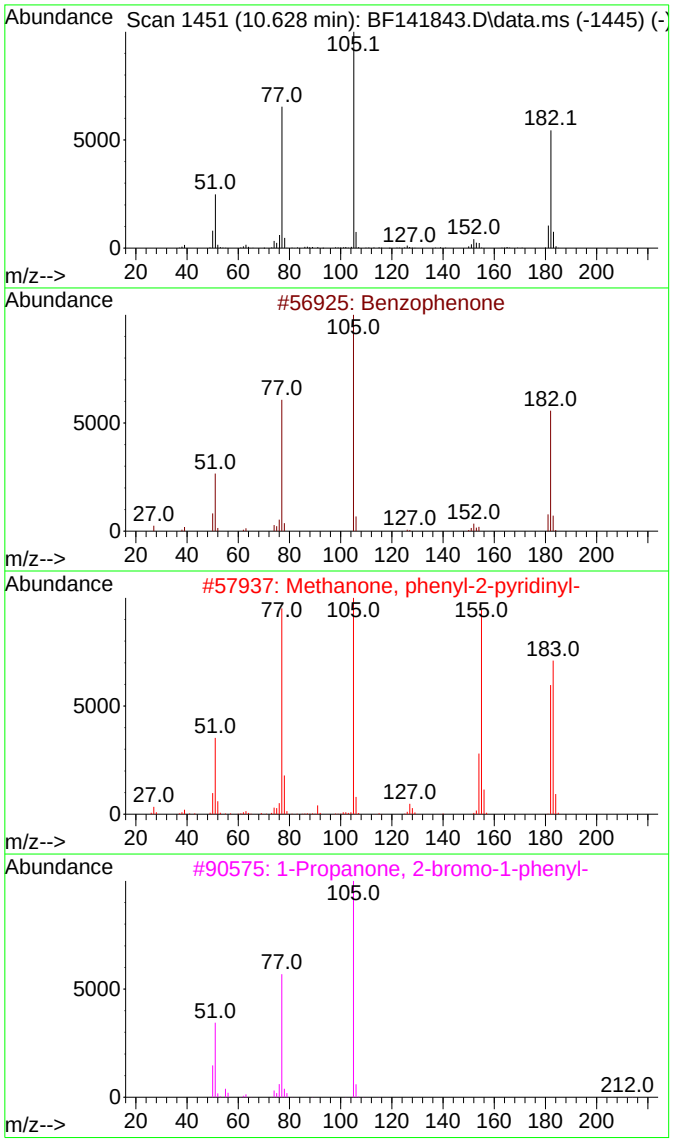
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

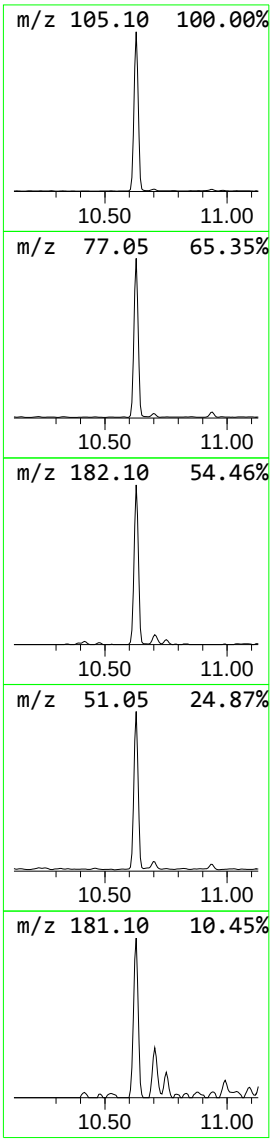
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.628	4.89 ng	387402	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Methanone, phenyl-2-pyridinyl-	183	C12H9NO	000091-02-1	72
3	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47
4	2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	47
5	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

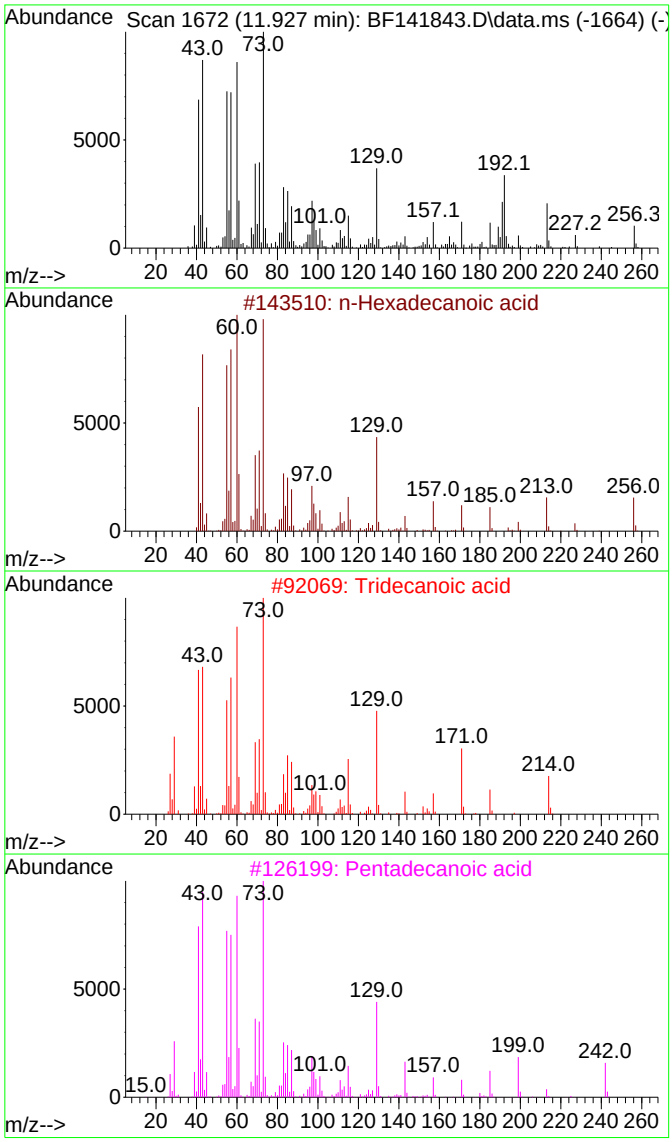
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

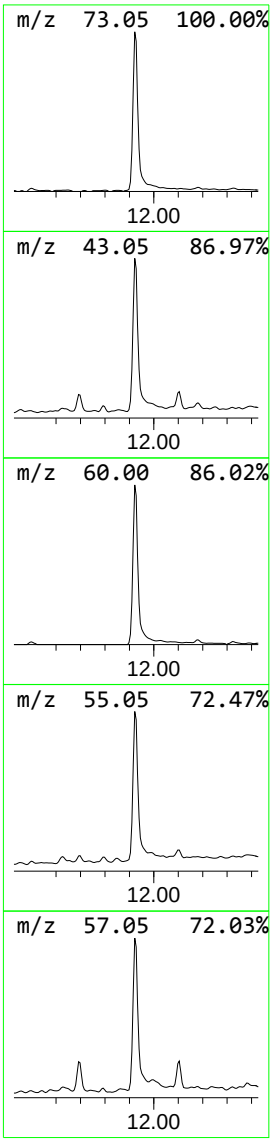
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.928	7.80 ng	603851	Phenanthrene-d10	11.404

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	89
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	89
5	8-Methylnonanoic acid	172	C10H20O2	005963-14-4	60





Sample Results: **BF141843.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

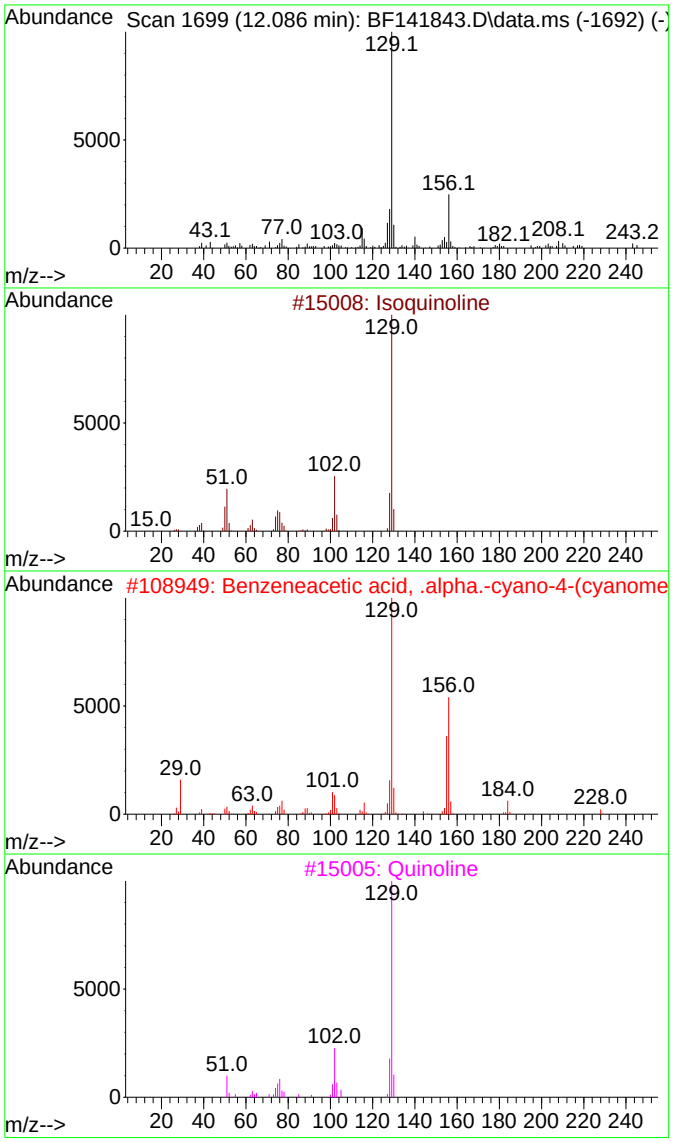
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

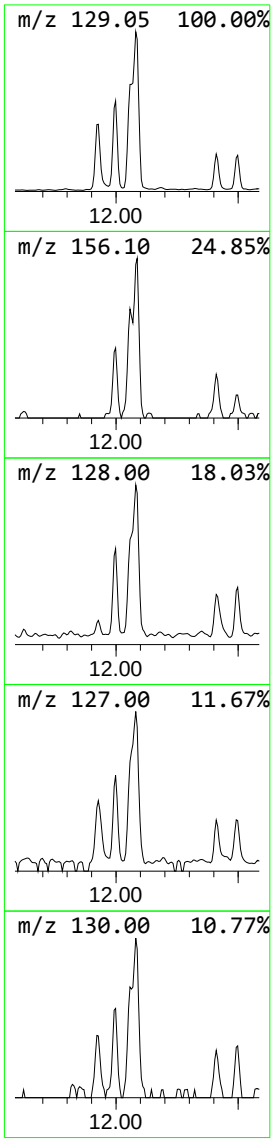
****

Peak Number 4 Isoquinoline Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.086	2.41 ng	186635	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isoquinoline	129	C9H7N	000119-65-3	58
2	Benzeneacetic acid, .alpha.-cyan...	228	C13H12N2O2	134882-04-5	56
3	Quinoline	129	C9H7N	000091-22-5	53
4	Benzeneacetonitrile, .alpha.-met...	129	C9H7N	000495-10-3	50
5	1-Deuteronaphthalene	129	C10H7D	000875-62-7	40





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

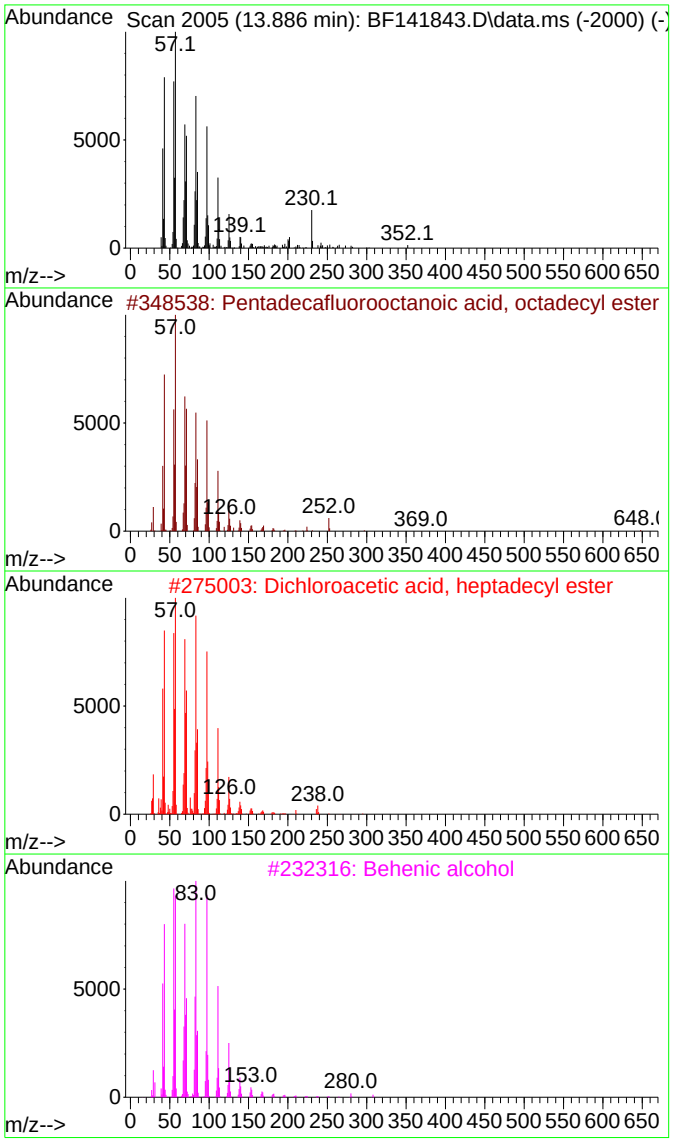
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

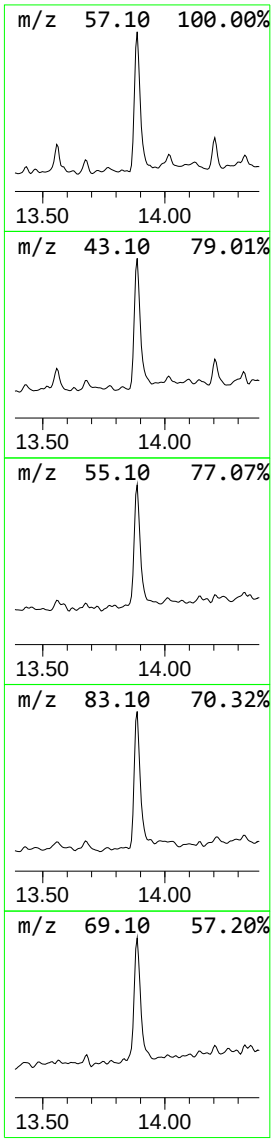
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Pentadecafluorooctanoic aci... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.886	3.27 ng	243634	Chrysene-d12	14.033

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	95
2	Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	94
3	Behenic alcohol	326	C22H46O	000661-19-8	93
4	n-Nonadecanol-1	284	C19H40O	001454-84-8	93
5	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

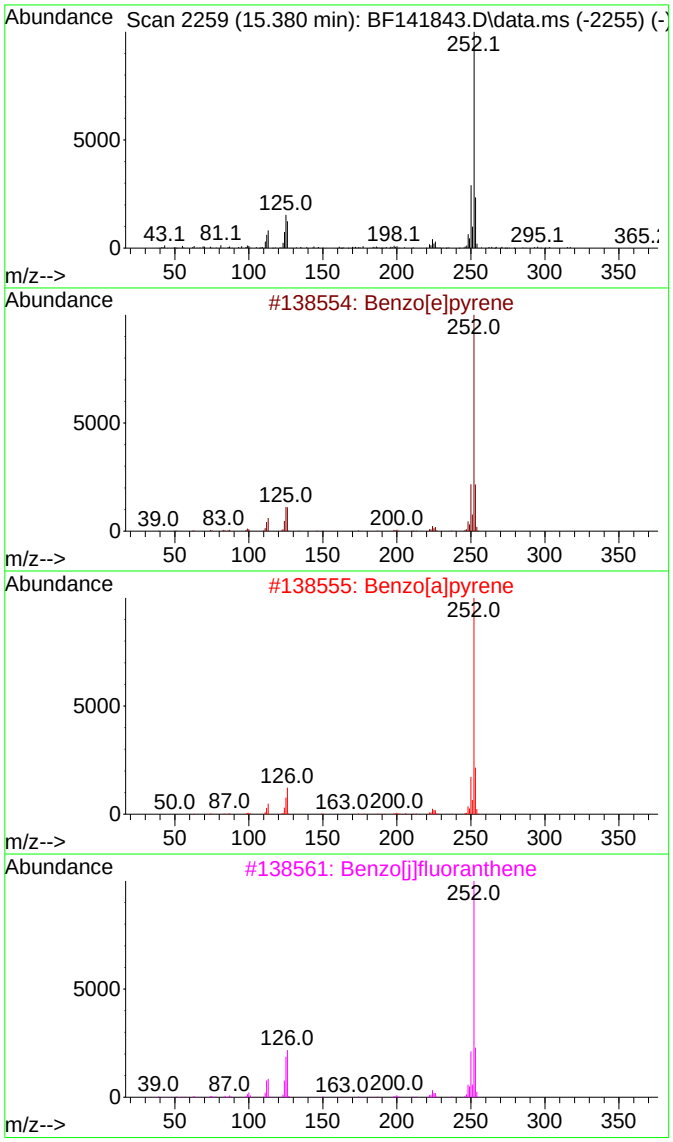
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

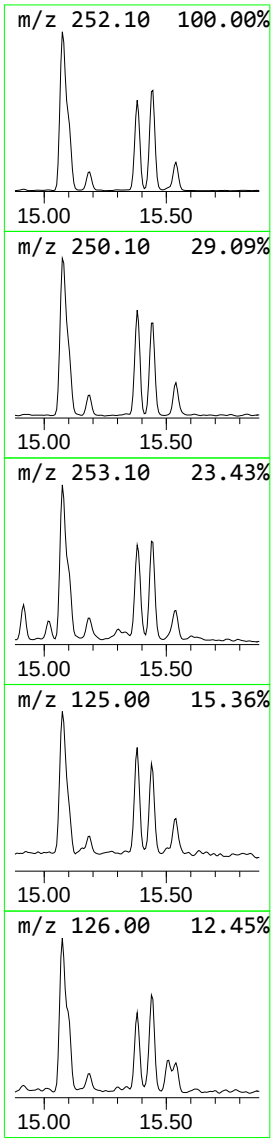
****

Peak Number 6 Benzo[e]pyrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.380	2.00 ng	140356	Perylene-d12	15.510

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[a]pyrene	252	C20H12	000050-32-8	94
3	Benzo[j]fluoranthene	252	C20H12	000205-82-3	93
4	Benzo[b]fluoranthene	252	C20H12	000205-99-2	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





Sample Results: **BF141843.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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
Butane, 2-metho...	2.169	31.9	ng	1864820	1	6.887	1167400	20.0
Benzophenone	10.628	4.9	ng	387402	3	9.916	1583720	20.0
n-Hexadecanoic ...	11.928	7.8	ng	603851	4	11.404	1549320	20.0
Isoquinoline	12.086	2.4	ng	186635	4	11.404	1549320	20.0
Pentadecafluoro...	13.886	3.3	ng	243634	5	14.033	1490760	20.0
Benzo[e]pyrene	15.380	2.0	ng	140356	6	15.510	1401180	20.0

Raw Data: **BF141841.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141841.D	1	03/05/25 09:40	03/05/25 13:53	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	220	U	220	410	ug/Kg
108-95-2	Phenol	100	U	100	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	100	U	100	210	ug/Kg
95-57-8	2-Chlorophenol	100	U	100	210	ug/Kg
95-48-7	2-Methylphenol	99.1	U	99.1	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	UQ	110	210	ug/Kg
98-86-2	Acetophenone	110	U	110	210	ug/Kg
65794-96-9	3+4-Methylphenols	98.1	U	98.1	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	49.6	U	49.6	98.4	ug/Kg
67-72-1	Hexachloroethane	100	U	100	210	ug/Kg
98-95-3	Nitrobenzene	110	U	110	210	ug/Kg
78-59-1	Isophorone	100	U	100	210	ug/Kg
88-75-5	2-Nitrophenol	120	U	120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	110	U	110	210	ug/Kg
120-83-2	2,4-Dichlorophenol	92.8	U	92.8	210	ug/Kg
91-20-3	Naphthalene	100	U	100	210	ug/Kg
106-47-8	4-Chloroaniline	100	UQ	100	210	ug/Kg
87-68-3	Hexachlorobutadiene	100	U	100	210	ug/Kg
105-60-2	Caprolactam	110	U	110	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	95.3	U	95.3	210	ug/Kg
91-57-6	2-Methylnaphthalene	100	U	100	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	190	U	190	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	87.8	U	87.8	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	91.0	U	91.0	210	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	100	U	100	210	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	210	ug/Kg
131-11-3	Dimethylphthalate	100	U	100	210	ug/Kg

Raw Data: **BF141841.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141841.D	1	03/05/25 09:40	03/05/25 13:53	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	110	U	110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	100	U	100	210	ug/Kg
99-09-2	3-Nitroaniline	110	UQ	110	210	ug/Kg
83-32-9	Acenaphthene	99.7	U	99.7	210	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	300	410	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	410	ug/Kg
132-64-9	Dibenzofuran	100	U	100	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	110	U	110	210	ug/Kg
84-66-2	Diethylphthalate	98.5	U	98.5	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	210	ug/Kg
86-73-7	Fluorene	110	U	110	210	ug/Kg
100-01-6	4-Nitroaniline	130	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	U	140	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	100	U	100	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	97.0	U	97.0	210	ug/Kg
118-74-1	Hexachlorobenzene	100	U	100	210	ug/Kg
1912-24-9	Atrazine	110	U	110	210	ug/Kg
87-86-5	Pentachlorophenol	95.1	U	95.1	410	ug/Kg
85-01-8	Phenanthrene	100	U	100	210	ug/Kg
120-12-7	Anthracene	100	U	100	210	ug/Kg
86-74-8	Carbazole	98.8	U	98.8	210	ug/Kg
84-74-2	Di-n-butylphthalate	100	U	100	210	ug/Kg
206-44-0	Fluoranthene	100	U	100	210	ug/Kg
129-00-0	Pyrene	100	U	100	210	ug/Kg
85-68-7	Butylbenzylphthalate	120	U	120	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	120	UQ	120	410	ug/Kg
56-55-3	Benzo(a)anthracene	99.2	U	99.2	210	ug/Kg
218-01-9	Chrysene	97.8	U	97.8	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	210	ug/Kg
117-84-0	Di-n-octyl phthalate	140	U	140	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	99.7	U	99.7	210	ug/Kg

Raw Data: **BF141841.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141841.D	1	03/05/25 09:40	03/05/25 13:53	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	100	U	100	210	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	96.0	U	96.0	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	99.9	U	99.9	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	98.5	U	98.5	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	210	ug/Kg
123-91-1	1,4-Dioxane	140	U	140	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	91.9	U	91.9	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	87.0		30 (18) - 130 (112)	58%	SPK: 150
13127-88-3	Phenol-d6	84.3		30 (15) - 130 (107)	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	71.4		30 (18) - 130 (107)	71%	SPK: 100
321-60-8	2-Fluorobiphenyl	59.1		30 (20) - 130 (109)	59%	SPK: 100
118-79-6	2,4,6-Tribromophenol	92.0		30 (10) - 130 (116)	61%	SPK: 150
1718-51-0	Terphenyl-d14	40.9		30 (10) - 130 (105)	41%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	200000	6.886			
1146-65-2	Naphthalene-d8	760000	8.163			
15067-26-2	Acenaphthene-d10	390000	9.916			
1517-22-2	Phenanthrene-d10	615000	11.404			
1719-03-5	Chrysene-d12	463000	14.039			
1520-96-3	Perylene-d12	513000	15.509			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	1100	JB		2.17	ug/Kg
000119-61-9	Benzophenone	180	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	330	J		11.9	ug/Kg
000112-63-0	9,12-Octadecadienoic acid (Z,Z)-,	96.3	J		12.5	ug/Kg
000557-61-9	Octacosanol	110	J		13.9	ug/Kg

Raw Data: **BF141841.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141841.D	1	03/05/25 09:40	03/05/25 13:53	PB166984

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\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Quant Time: Mar 05 15:07:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	200259	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	760393	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	389790	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	614563	20.000	ng	0.00
76) Chrysene-d12	14.039	240	462576	20.000	ng	-0.01
86) Perylene-d12	15.509	264	512973	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1091570	87.048	ng	0.00
7) Phenol-d6	6.498	99	1376053	84.308	ng	-0.01
23) Nitrobenzene-d5	7.439	82	849034	71.371	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	336547	91.967	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	1437189	59.120	ng	0.00
79) Terphenyl-d14	12.986	244	1168427	40.867	ng	-0.01
Target Compounds						Qvalue

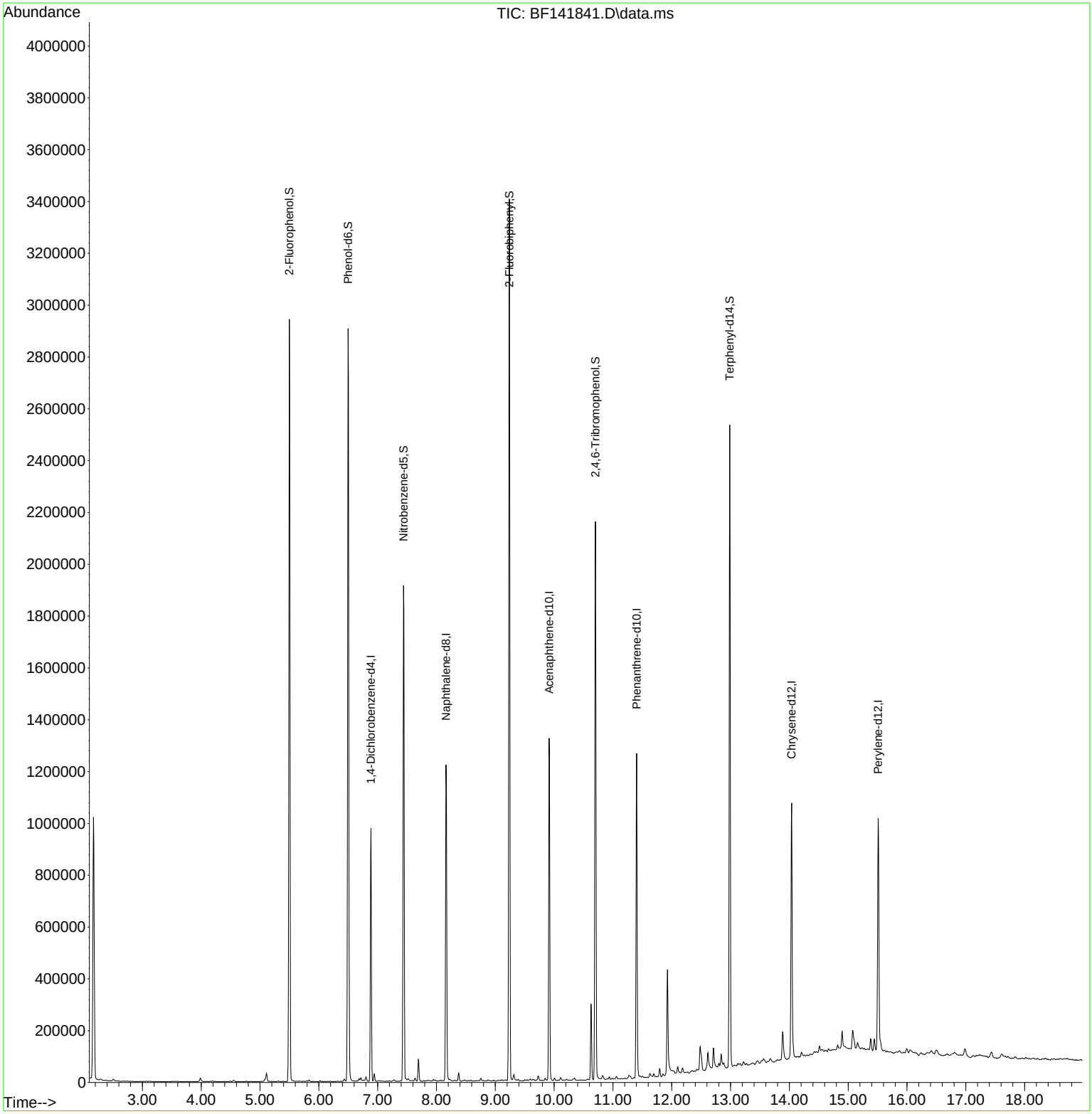
(#) = qualifier out of range (m) = manual integration (+) = signals summed

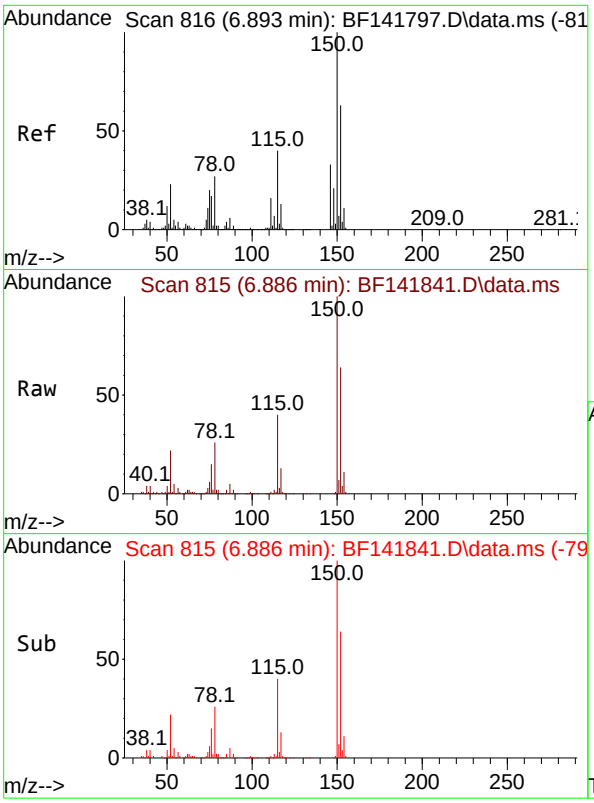
Sample Results: **BF141841.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Quant Time: Mar 05 15:07:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



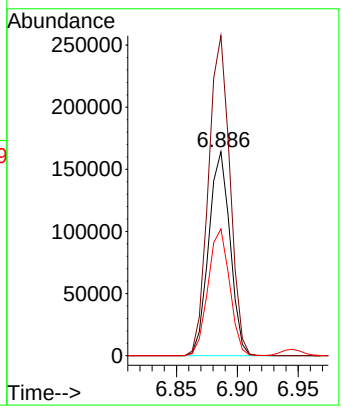


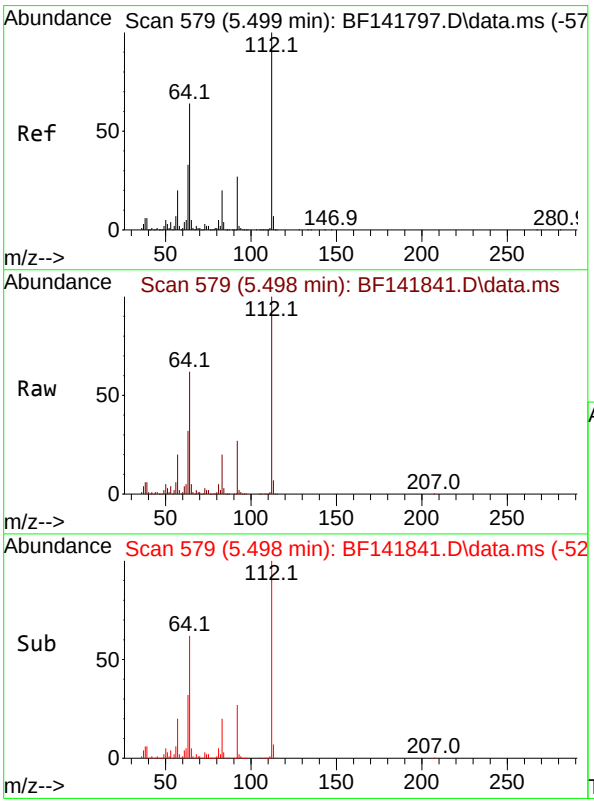
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 8
Delta R.T. -0.007 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Tgt Ion:152 Resp: 200259

Ion	Ratio	Lower	Upper
152	100		
150	156.9	127.5	191.3
115	62.2	51.4	77.2

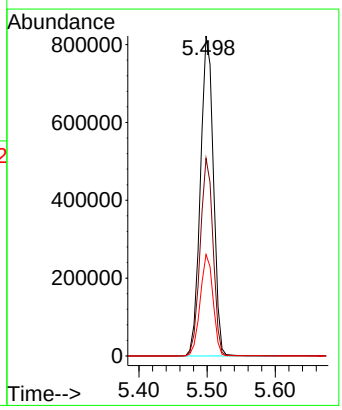


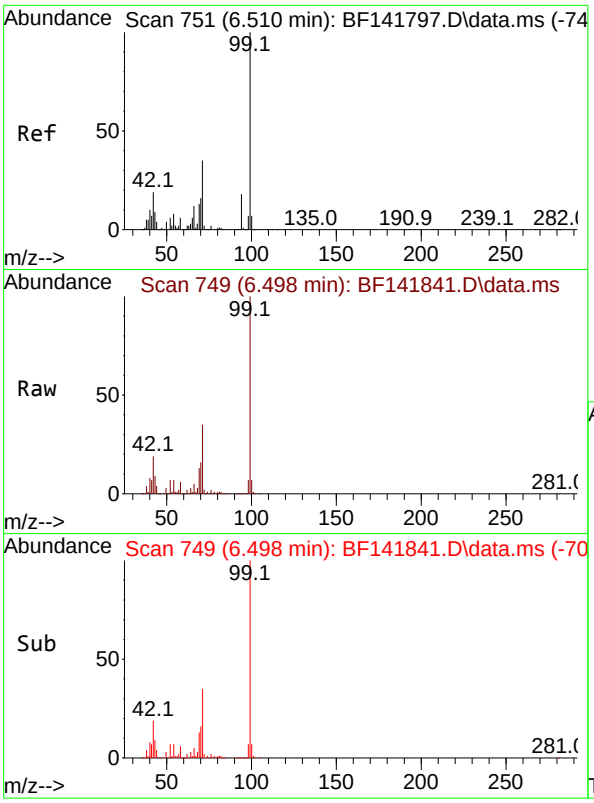


#5
2-Fluorophenol
Concen: 87.048 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Tgt Ion:112 Resp: 1091570

Ion	Ratio	Lower	Upper
112	100		
64	61.8	51.3	76.9
63	31.7	26.2	39.4



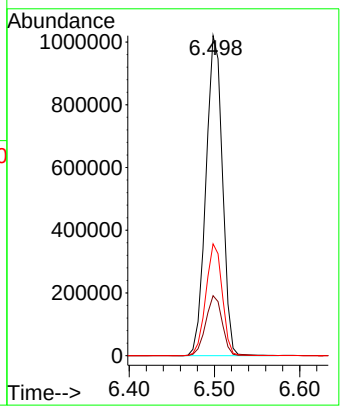


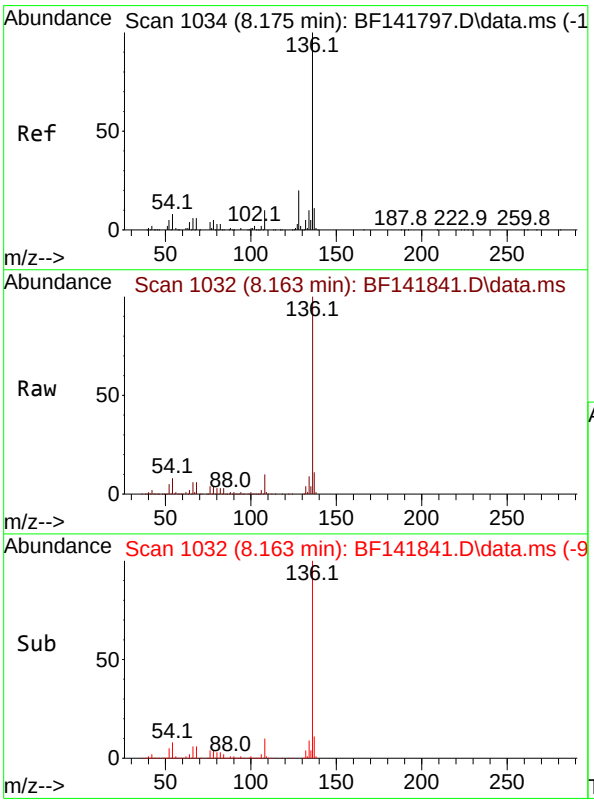
#7
Phenol-d6
Concen: 84.308 ng
RT: 6.498 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Tgt Ion: 99 Resp: 1376053

Ion	Ratio	Lower	Upper
99	100		
42	18.8	15.2	22.8
71	34.9	28.2	42.2

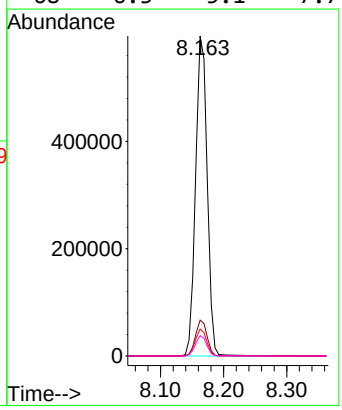


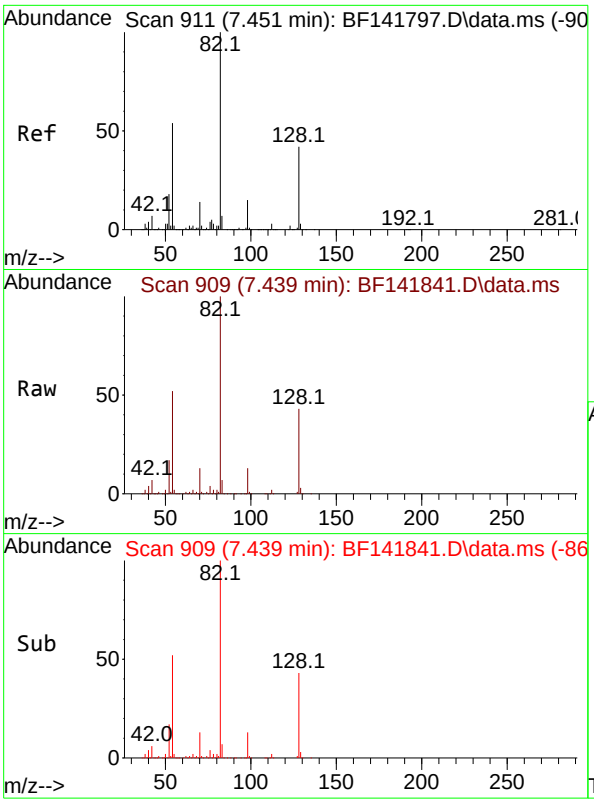


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Tgt Ion:136 Resp: 760393

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	8.4	6.9	10.3
68	6.3	5.1	7.7



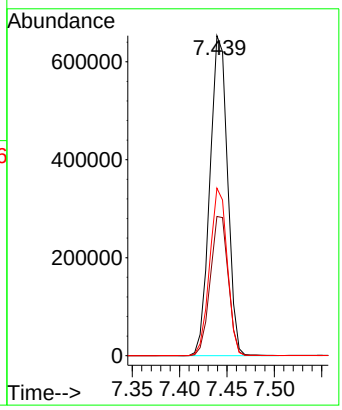


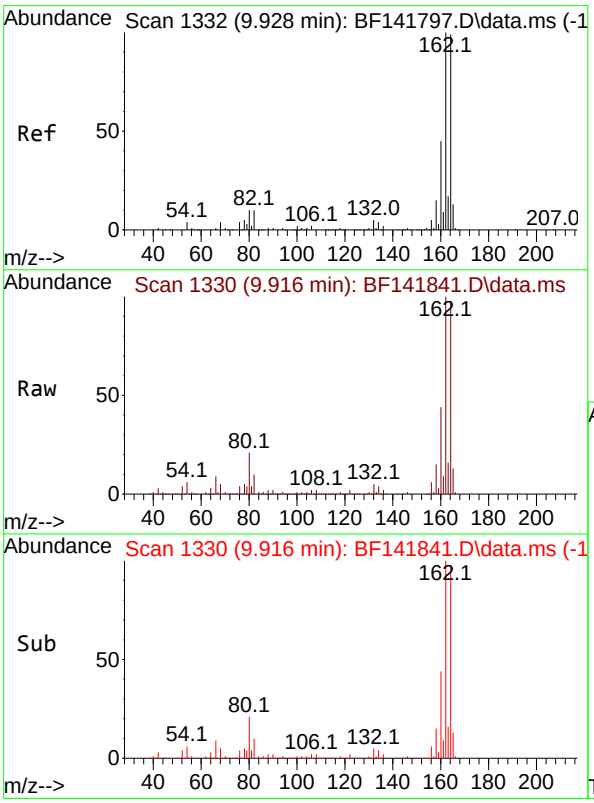
#23
Nitrobenzene-d5
Concen: 71.371 ng
RT: 7.439 min Scan# 9(
Delta R.T. -0.012 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Tgt Ion: 82 Resp: 849034

Ion	Ratio	Lower	Upper
82	100		
128	43.5	33.5	50.3
54	52.4	42.7	64.1

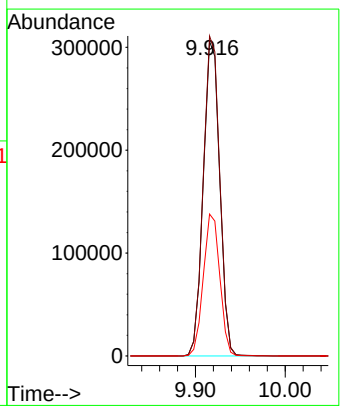


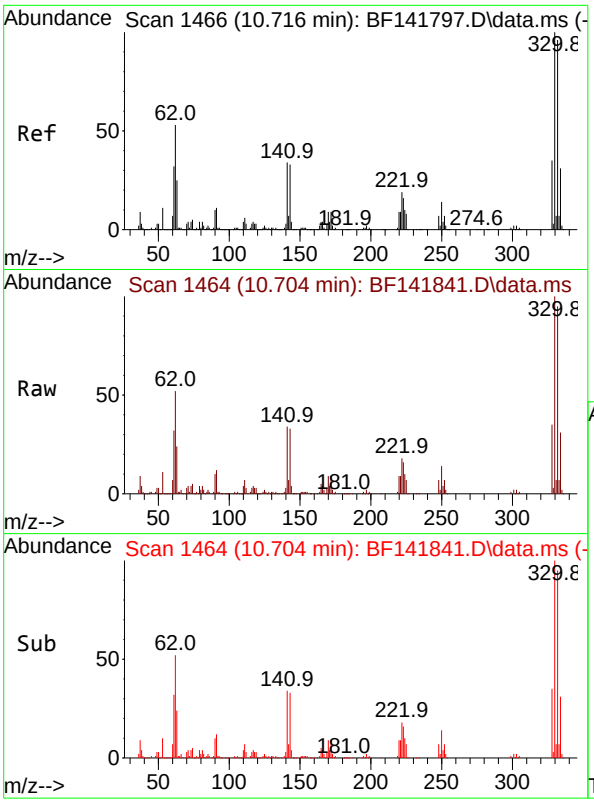


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Tgt Ion:164 Resp: 389790

Ion	Ratio	Lower	Upper
164	100		
162	101.7	80.6	120.8
160	45.1	36.3	54.5



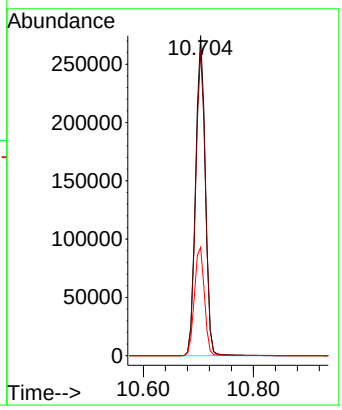


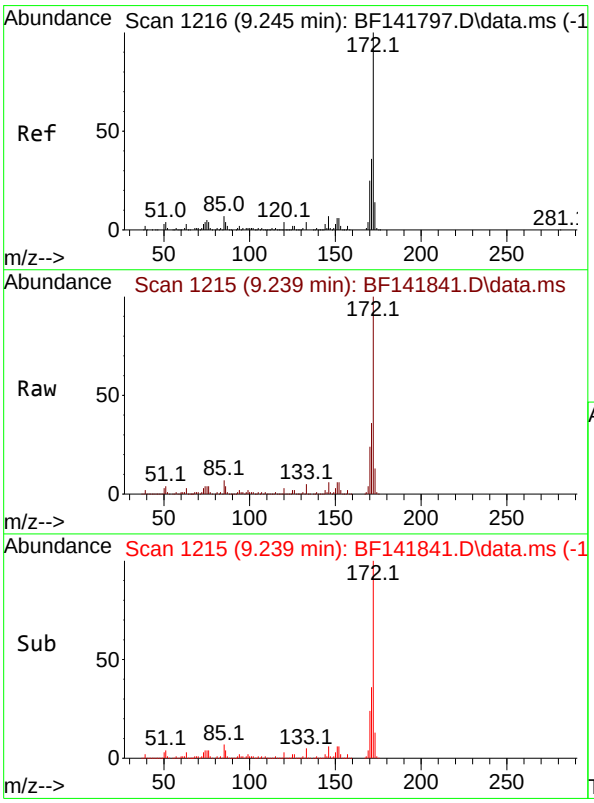
#42
2,4,6-Tribromophenol
Concen: 91.967 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Tgt Ion:330 Resp: 336547

Ion	Ratio	Lower	Upper
330	100		
332	95.5	76.6	115.0
141	35.1	29.0	43.4

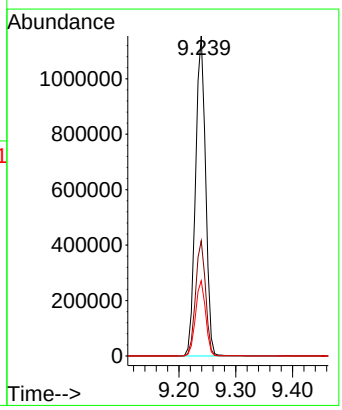


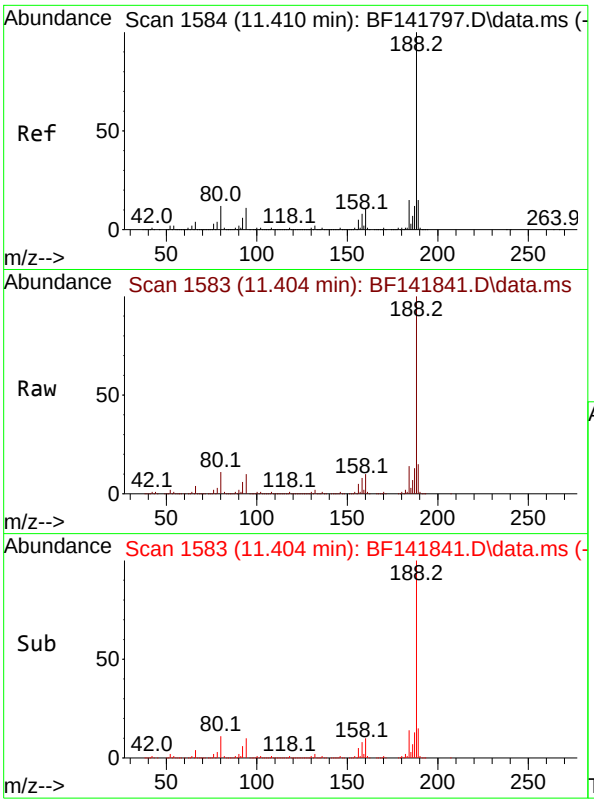


#45
2-Fluorobiphenyl
Concen: 59.120 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Tgt Ion:172 Resp: 1437189

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.2	43.8
170	23.5	19.7	29.5



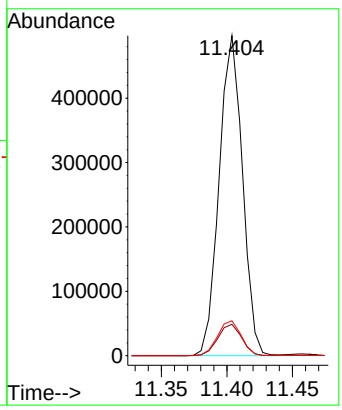


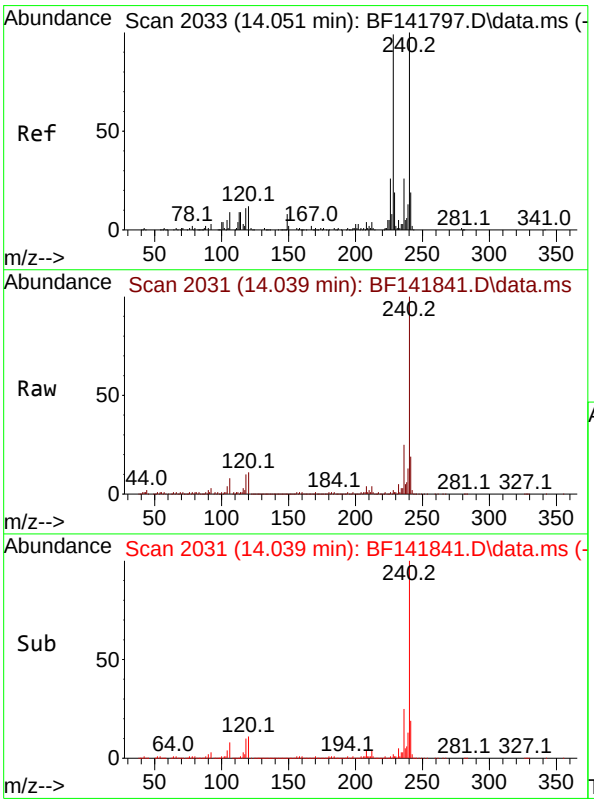
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Tgt Ion:188 Resp: 614563

Ion	Ratio	Lower	Upper
188	100		
94	9.8	8.9	13.3
80	10.9	9.7	14.5

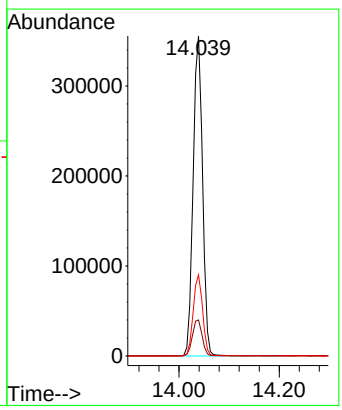


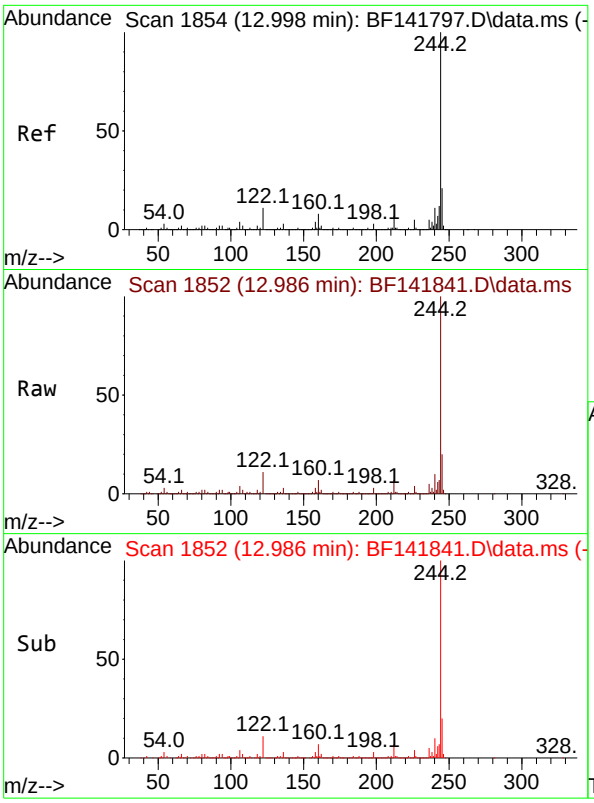


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Tgt Ion:240 Resp: 462576

Ion	Ratio	Lower	Upper
240	100		
120	11.3	9.7	14.5
236	25.3	21.0	31.4



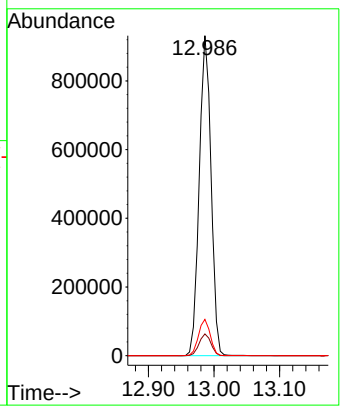


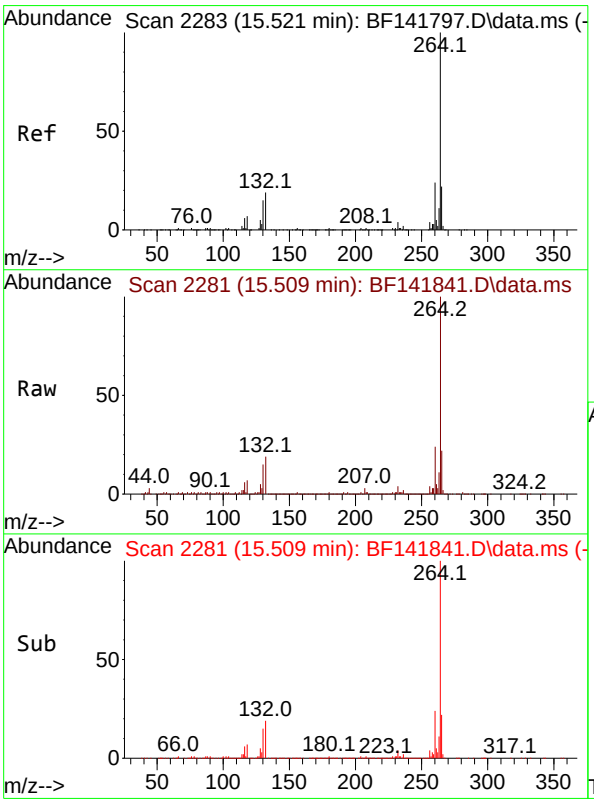
#79
Terphenyl-d14
Concen: 40.867 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Tgt Ion:244 Resp: 1168427

Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.0	9.0
122	11.3	9.0	13.6

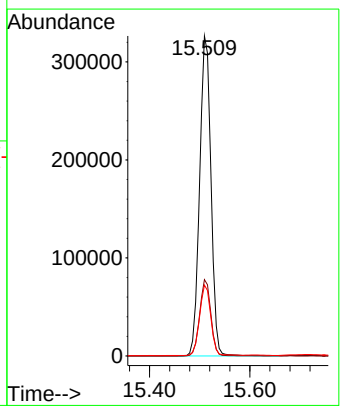




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Tgt Ion:264 Resp: 512973

Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.9	28.3
265	22.2	17.4	26.0



Sample Results: **BF141841.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

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-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141841.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.169	6	13	29	rVB	1013467	1614472	38.09%	4.853%
2	5.110	499	513	519	rBV2	31332	59491	1.40%	0.179%
3	5.498	573	579	584	rBV	2941856	3867796	91.26%	11.627%
4	6.498	743	749	763	rBV	2904662	3994341	94.25%	12.008%
5	6.886	809	815	820	rBV	976155	1204423	28.42%	3.621%
6	7.439	903	909	914	rBV	1911461	2489839	58.75%	7.485%
7	7.692	948	952	960	rVB	82867	105069	2.48%	0.316%
8	8.163	1026	1032	1040	rBV	1219125	1563229	36.89%	4.699%
9	8.375	1063	1068	1076	rVB2	32007	45994	1.09%	0.138%
10	9.239	1209	1215	1220	rBV	3403635	4238028	100.00%	12.740%
11	9.916	1325	1330	1336	rBV	1318802	1673935	39.50%	5.032%
12	10.627	1446	1451	1458	rBV	293649	366543	8.65%	1.102%
13	10.704	1458	1464	1469	rBV	2153680	2702677	63.77%	8.125%
14	11.404	1578	1583	1590	rBV	1251628	1585655	37.41%	4.767%
15	11.798	1645	1650	1655	rVB	31939	45050	1.06%	0.135%
16	11.927	1666	1672	1684	rBV	407307	636086	15.01%	1.912%
17	12.486	1762	1767	1778	rVB3	91635	186634	4.40%	0.561%
18	12.615	1782	1789	1798	rBV	65147	137548	3.25%	0.413%
19	12.710	1801	1805	1817	rBV	77774	130929	3.09%	0.394%
20	12.839	1824	1827	1833	rBV	42855	60177	1.42%	0.181%
21	12.986	1847	1852	1860	rBV	2477050	3126522	73.77%	9.399%
22	13.886	2001	2005	2015	rVB	105691	181518	4.28%	0.546%
23	14.039	2025	2031	2044	rVB	980625	1390727	32.82%	4.181%
24	14.898	2173	2177	2197	rVB2	65023	124676	2.94%	0.375%
25	15.080	2204	2208	2216	rVB	68123	141643	3.34%	0.426%
26	15.380	2256	2259	2265	rVB	45719	67624	1.60%	0.203%
27	15.445	2267	2270	2275	rVV	44581	64179	1.51%	0.193%
28	15.509	2275	2281	2295	rVB	897339	1460023	34.45%	4.389%

Sum of corrected areas: 33264828

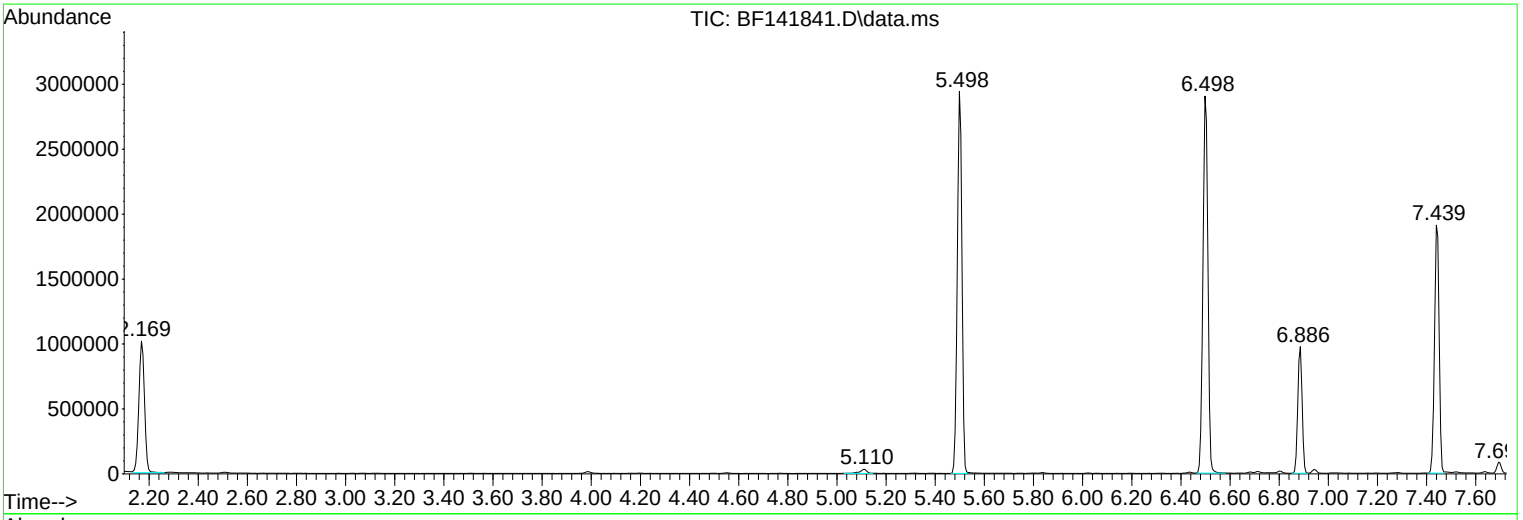
Sample Results: **BF141841.D**

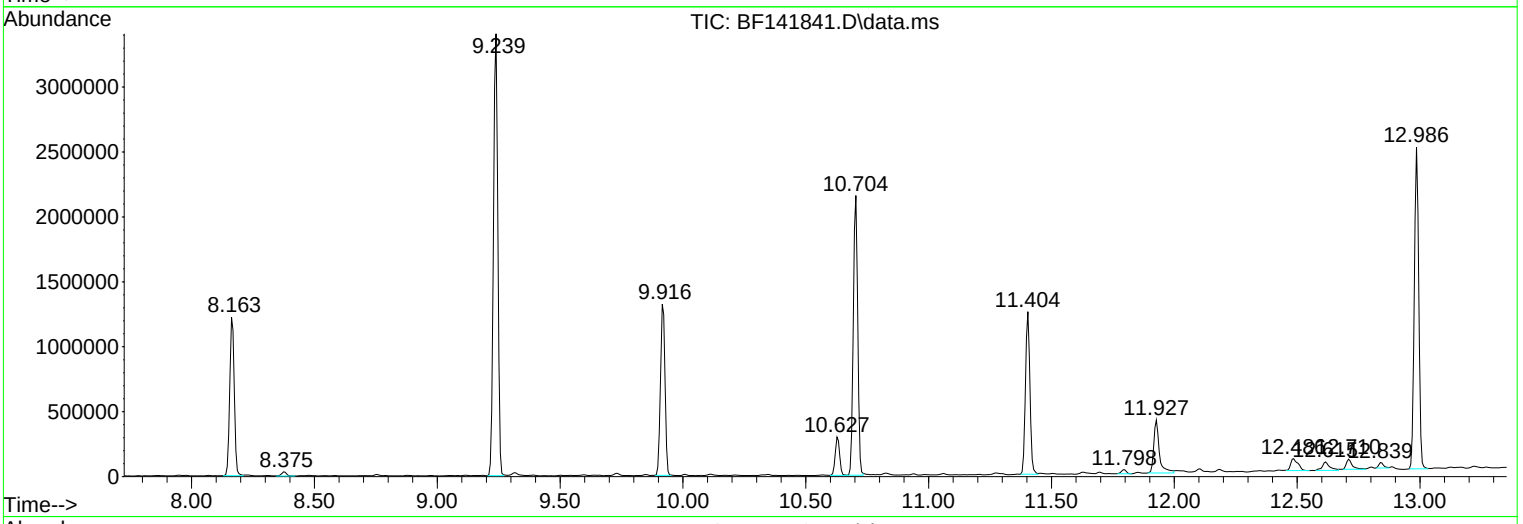
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

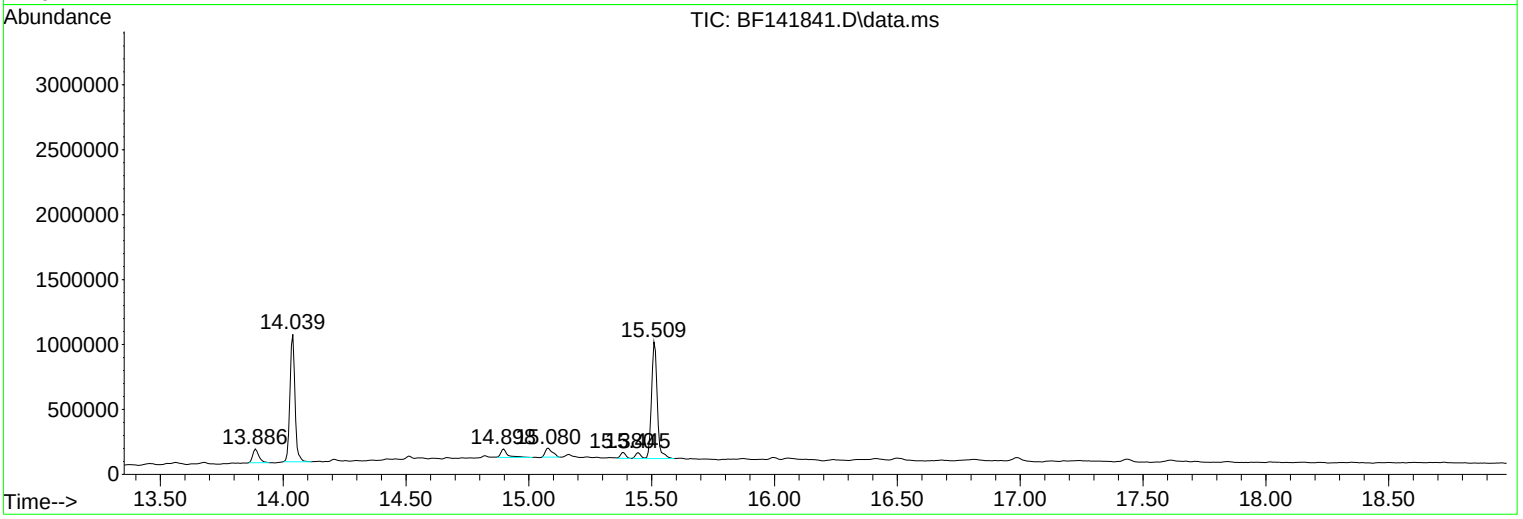
Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

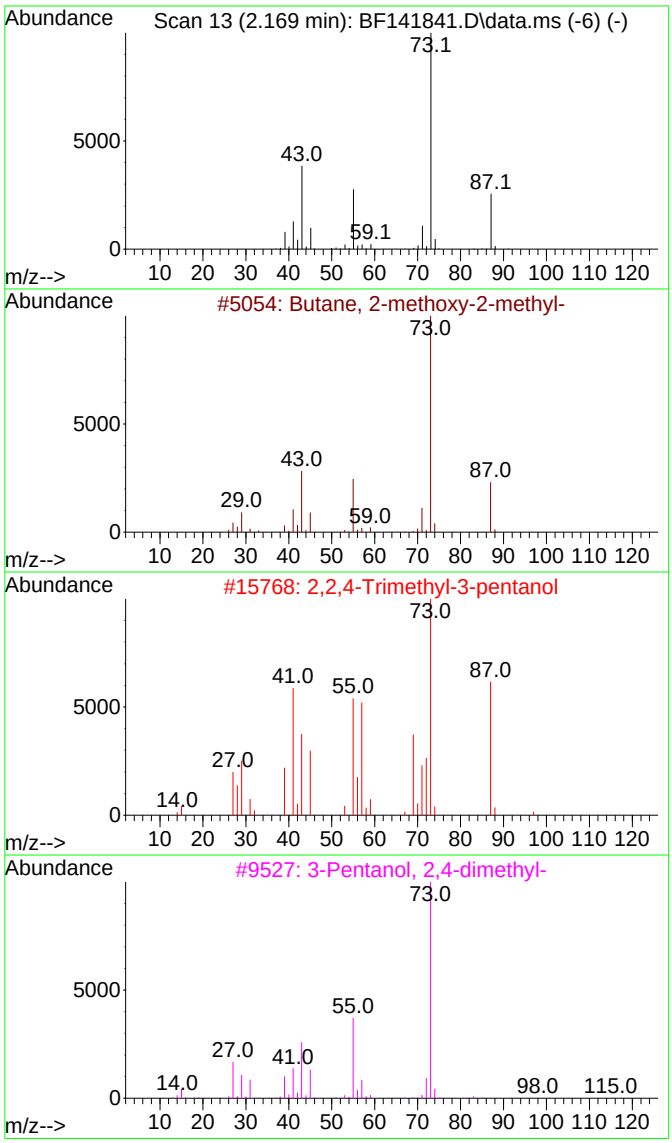
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

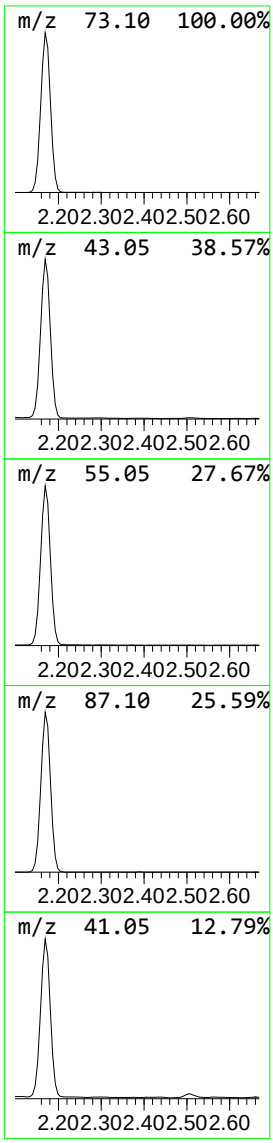
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.169	26.81 ng	1614470	1,4-Dichlorobenzene-d4	6.886

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	3-Pentanol, 2,4-dimethyl-	116	C7H16O	000600-36-2	37
4	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	27
5	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

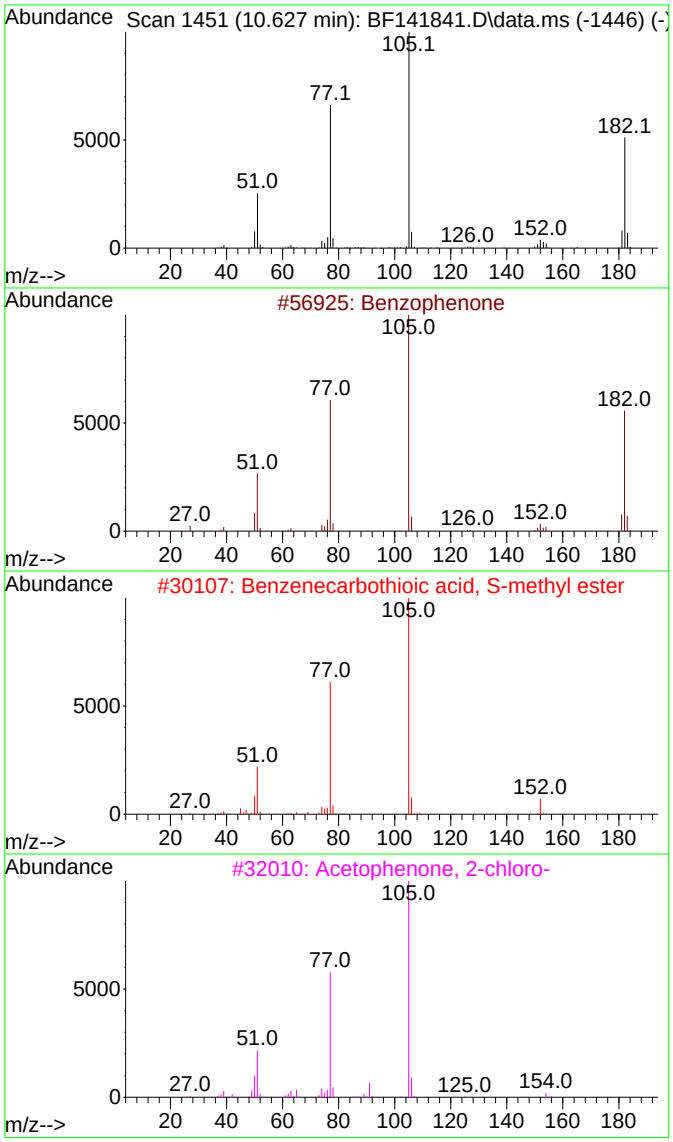
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

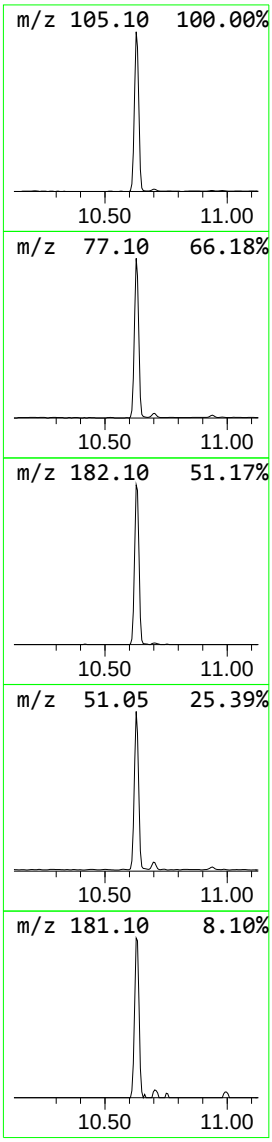
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.627	4.38 ng	366543	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4	Vinyl benzoate	148	C9H8O2	000769-78-8	47
5	1,2-Propanedione, 1-phenyl-	148	C9H8O2	000579-07-7	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

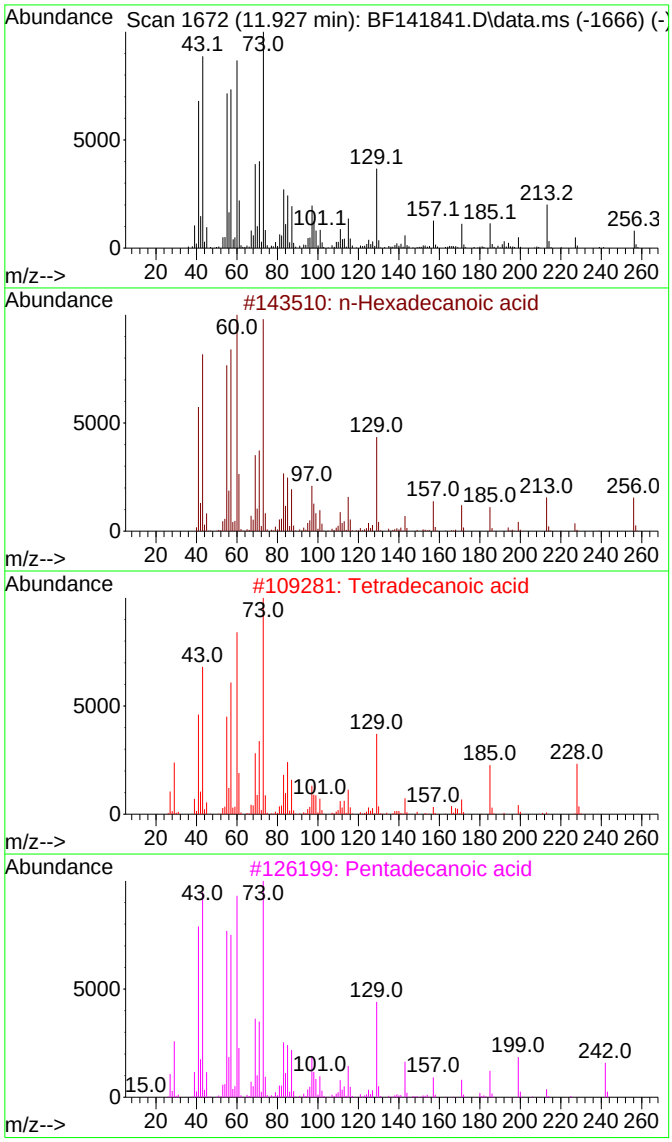
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

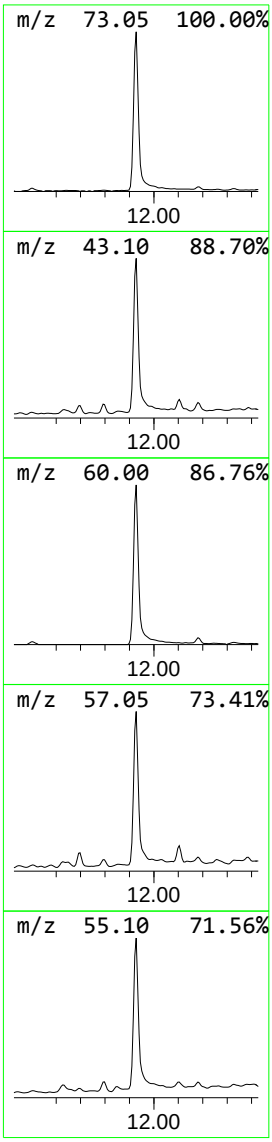
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.927	8.02 ng	636086	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
4	Tridecanoic acid	214	C13H26O2	000638-53-9	87
5	8-Methylnonanoic acid	172	C10H20O2	005963-14-4	60





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

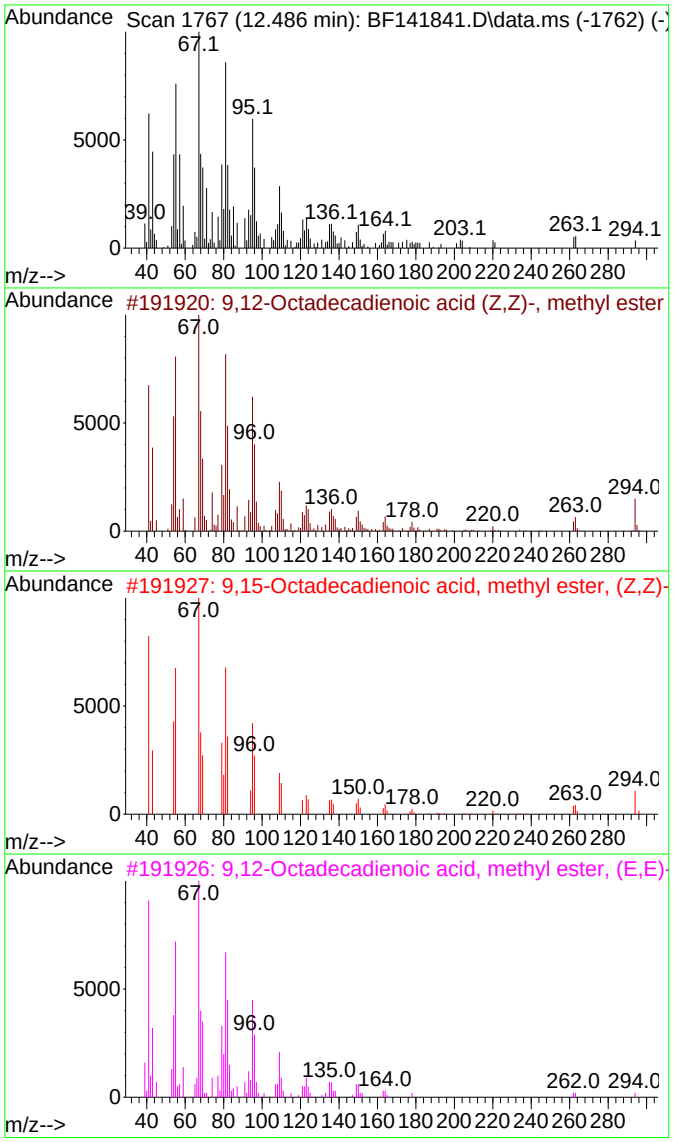
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

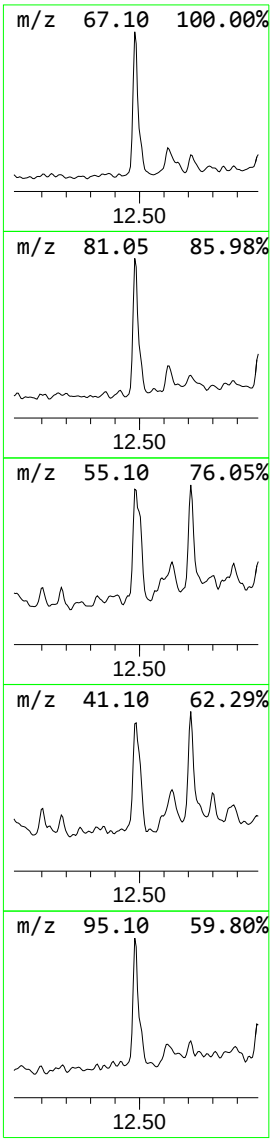
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 9,12-Octadecadienoic acid (... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.486	2.35 ng	186634	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,12-Octadecadienoic acid (Z,Z)-...	294	C19H34O2	000112-63-0	99
2	9,15-Octadecadienoic acid, methy...	294	C19H34O2	017309-05-6	99
3	9,12-Octadecadienoic acid, methy...	294	C19H34O2	002566-97-4	96
4	11,14-Octadecadienoic acid, meth...	294	C19H34O2	056554-61-1	94
5	9,12-Octadecadienoic acid, methy...	294	C19H34O2	002462-85-3	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

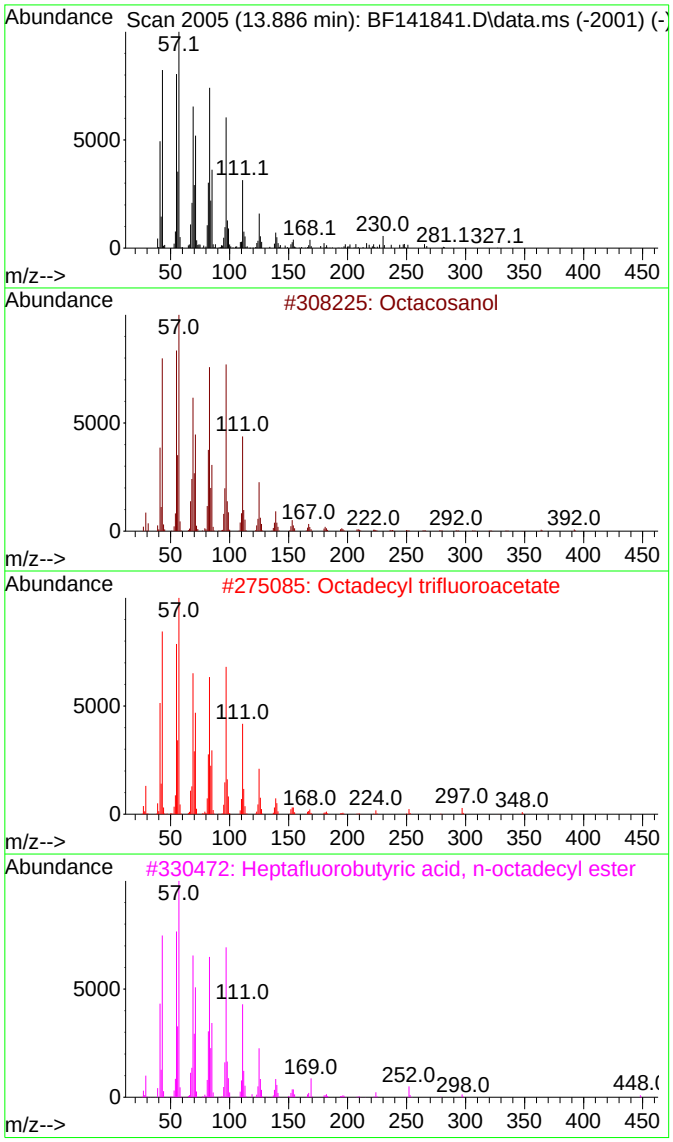
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

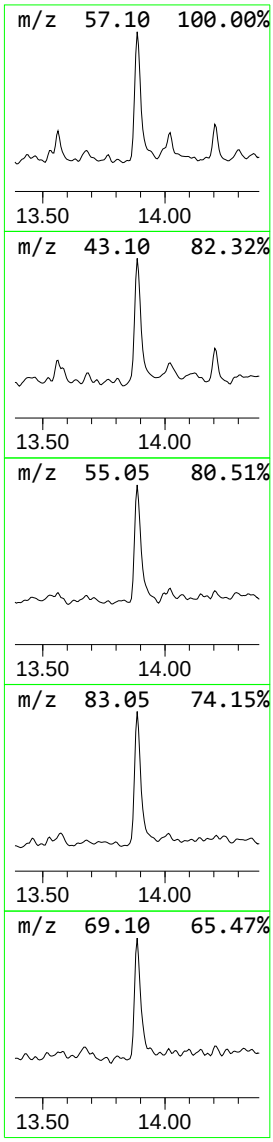
****

Peak Number 5 Octacosanol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.886	2.61 ng	181518	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosanol	410	C28H58O	000557-61-9	91
2	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	91
3	Heptafluorobutyric acid, n-octad...	466	C22H37F7O2	000400-57-7	91
4	Butyl docosyl ether	382	C26H54O	1000406-40-8	91
5	Eicosyl pentafluoropropionate	444	C23H41F5O2	1000351-80-8	91





Sample Results: **BF141841.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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
Butane, 2-metho...	2.169	26.8	ng	1614470	1	6.886	1204420	20.0
Benzophenone	10.627	4.4	ng	366543	3	9.916	1673940	20.0
n-Hexadecanoic ...	11.927	8.0	ng	636086	4	11.404	1585660	20.0
9,12-Octadecadi...	12.486	2.4	ng	186634	4	11.404	1585660	20.0
Octacosanol	13.886	2.6	ng	181518	5	14.039	1390730	20.0

Raw Data: **BF141871.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-13	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	700 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141871.D	1	03/05/25 08:35	03/06/25 16:29	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	5.70	U	5.70	14.3	ug/L
108-95-2	Phenol	1.30	U	1.30	7.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.70	U	1.70	7.10	ug/L
95-57-8	2-Chlorophenol	1.00	U	1.00	7.10	ug/L
95-48-7	2-Methylphenol	1.60	U	1.60	7.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.90	U	1.90	7.10	ug/L
98-86-2	Acetophenone	1.60	U	1.60	7.10	ug/L
65794-96-9	3+4-Methylphenols	1.60	U	1.60	14.3	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.10	U	2.10	3.60	ug/L
67-72-1	Hexachloroethane	1.40	U	1.40	7.10	ug/L
98-95-3	Nitrobenzene	1.80	U	1.80	7.10	ug/L
78-59-1	Isophorone	1.60	U	1.60	7.10	ug/L
88-75-5	2-Nitrophenol	2.80	U	2.80	7.10	ug/L
105-67-9	2,4-Dimethylphenol	2.20	U	2.20	7.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.50	U	1.50	7.10	ug/L
120-83-2	2,4-Dichlorophenol	1.30	U	1.30	7.10	ug/L
91-20-3	Naphthalene	1.50	U	1.50	7.10	ug/L
106-47-8	4-Chloroaniline	1.90	UQ	1.90	7.10	ug/L
87-68-3	Hexachlorobutadiene	1.80	U	1.80	7.10	ug/L
105-60-2	Caprolactam	19.3		2.40	14.3	ug/L
59-50-7	4-Chloro-3-methylphenol	1.20	U	1.20	7.10	ug/L
91-57-6	2-Methylnaphthalene	1.60	U	1.60	7.10	ug/L
77-47-4	Hexachlorocyclopentadiene	7.20	U	7.20	14.3	ug/L
88-06-2	2,4,6-Trichlorophenol	1.30	U	1.30	7.10	ug/L
95-95-4	2,4,5-Trichlorophenol	1.40	U	1.40	7.10	ug/L
92-52-4	1,1-Biphenyl	1.30	U	1.30	7.10	ug/L
91-58-7	2-Chloronaphthalene	1.40	U	1.40	7.10	ug/L
88-74-4	2-Nitroaniline	2.00	U	2.00	7.10	ug/L
131-11-3	Dimethylphthalate	1.30	U	1.30	7.10	ug/L

Raw Data: **BF141871.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-13	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	700 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141871.D	1	03/05/25 08:35	03/06/25 16:29	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.50	U	1.50	7.10	ug/L
606-20-2	2,6-Dinitrotoluene	1.80	U	1.80	7.10	ug/L
99-09-2	3-Nitroaniline	2.00	UQ	2.00	7.10	ug/L
83-32-9	Acenaphthene	1.20	U	1.20	7.10	ug/L
51-28-5	2,4-Dinitrophenol	9.20	U	9.20	14.3	ug/L
100-02-7	4-Nitrophenol	2.90	U	2.90	14.3	ug/L
132-64-9	Dibenzofuran	1.30	U	1.30	7.10	ug/L
121-14-2	2,4-Dinitrotoluene	2.20	U	2.20	7.10	ug/L
84-66-2	Diethylphthalate	1.50	U	1.50	7.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.40	U	1.40	7.10	ug/L
86-73-7	Fluorene	1.40	U	1.40	7.10	ug/L
100-01-6	4-Nitroaniline	2.90	U	2.90	7.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	4.40	U	4.40	14.3	ug/L
86-30-6	n-Nitrosodiphenylamine	1.30	U	1.30	7.10	ug/L
101-55-3	4-Bromophenyl-phenylether	1.40	U	1.40	7.10	ug/L
118-74-1	Hexachlorobenzene	1.60	U	1.60	7.10	ug/L
1912-24-9	Atrazine	1.80	U	1.80	7.10	ug/L
87-86-5	Pentachlorophenol	2.60	U	2.60	14.3	ug/L
85-01-8	Phenanthrene	1.30	U	1.30	7.10	ug/L
120-12-7	Anthracene	1.50	U	1.50	7.10	ug/L
86-74-8	Carbazole	1.60	U	1.60	7.10	ug/L
84-74-2	Di-n-butylphthalate	2.10	U	2.10	7.10	ug/L
206-44-0	Fluoranthene	1.80	U	1.80	7.10	ug/L
129-00-0	Pyrene	1.50	U	1.50	7.10	ug/L
85-68-7	Butylbenzylphthalate	3.00	U	3.00	7.10	ug/L
91-94-1	3,3-Dichlorobenzidine	1.80	UQ	1.80	14.3	ug/L
56-55-3	Benzo(a)anthracene	1.30	U	1.30	7.10	ug/L
218-01-9	Chrysene	1.20	U	1.20	7.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	2.70	U	2.70	7.10	ug/L
117-84-0	Di-n-octyl phthalate	3.60	U	3.60	14.3	ug/L
205-99-2	Benzo(b)fluoranthene	1.60	U	1.60	7.10	ug/L

Raw Data: **BF141871.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-13	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	700 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141871.D	1	03/05/25 08:35	03/06/25 16:29	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.70	U	1.70	7.10	ug/L
50-32-8	Benzo(a)pyrene	2.40	U	2.40	7.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.50	U	1.50	7.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.60	U	1.60	7.10	ug/L
191-24-2	Benzo(g,h,i)perylene	1.70	U	1.70	7.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.60	U	1.60	7.10	ug/L
123-91-1	1,4-Dioxane	1.80	U	1.80	7.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	1.10	U	1.10	7.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	82.7		15 (10) - 110 (139)	55%	SPK: 150
13127-88-3	Phenol-d6	55.0		15 (10) - 110 (134)	37%	SPK: 150
4165-60-0	Nitrobenzene-d5	112		30 (49) - 130 (133)	112%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.5		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	174	*	15 (44) - 110 (137)	116%	SPK: 150
1718-51-0	Terphenyl-d14	87.7		30 (48) - 130 (125)	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	158000	6.887			
1146-65-2	Naphthalene-d8	632000	8.163			
15067-26-2	Acenaphthene-d10	343000	9.916			
1517-22-2	Phenanthrene-d10	586000	11.404			
1719-03-5	Chrysene-d12	449000	14.039			
1520-96-3	Perylene-d12	461000	15.51			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	140	J		2.16	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	5.30	A		5.10	ug/L
000104-76-7	1-Hexanol, 2-ethyl-	14.1	J		6.94	ug/L
000149-57-5	Hexanoic acid, 2-ethyl-	5.80	J		7.53	ug/L
000124-07-2	Octanoic acid	3.00	J		7.88	ug/L
000112-05-0	Nonanoic acid	5.80	J		8.50	ug/L
006846-50-0	2,2,4-Trimethyl-1,3-pentanediol di	4.10	J		10.3	ug/L

Raw Data: **BF141871.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-13	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	700 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141871.D	1	03/05/25 08:35	03/06/25 16:29	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000119-61-9	Benzophenone	16.0	J		10.6	ug/L
000947-19-3	Methanone, (1-hydroxycyclohexyl)ph	3.30	J		10.9	ug/L
004337-65-9	Hexanedioic acid, mono(2-ethylhexy	7.50	J		11.5	ug/L
000057-10-3	n-Hexadecanoic acid	15.9	J		11.9	ug/L
000077-94-1	Butyl citrate	3.80	J		12.6	ug/L
000057-11-4	Octadecanoic acid	4.50	J		12.7	ug/L
1000353-59-6	Adipic acid, 2-decyl isobutyl ester	74.1	J		12.8	ug/L
000295-48-7	Cyclopentadecane	4.60	J		13.9	ug/L
007683-64-9	Supraene	3.20	J		14.9	ug/L

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\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Quant Time: Mar 06 16:56:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

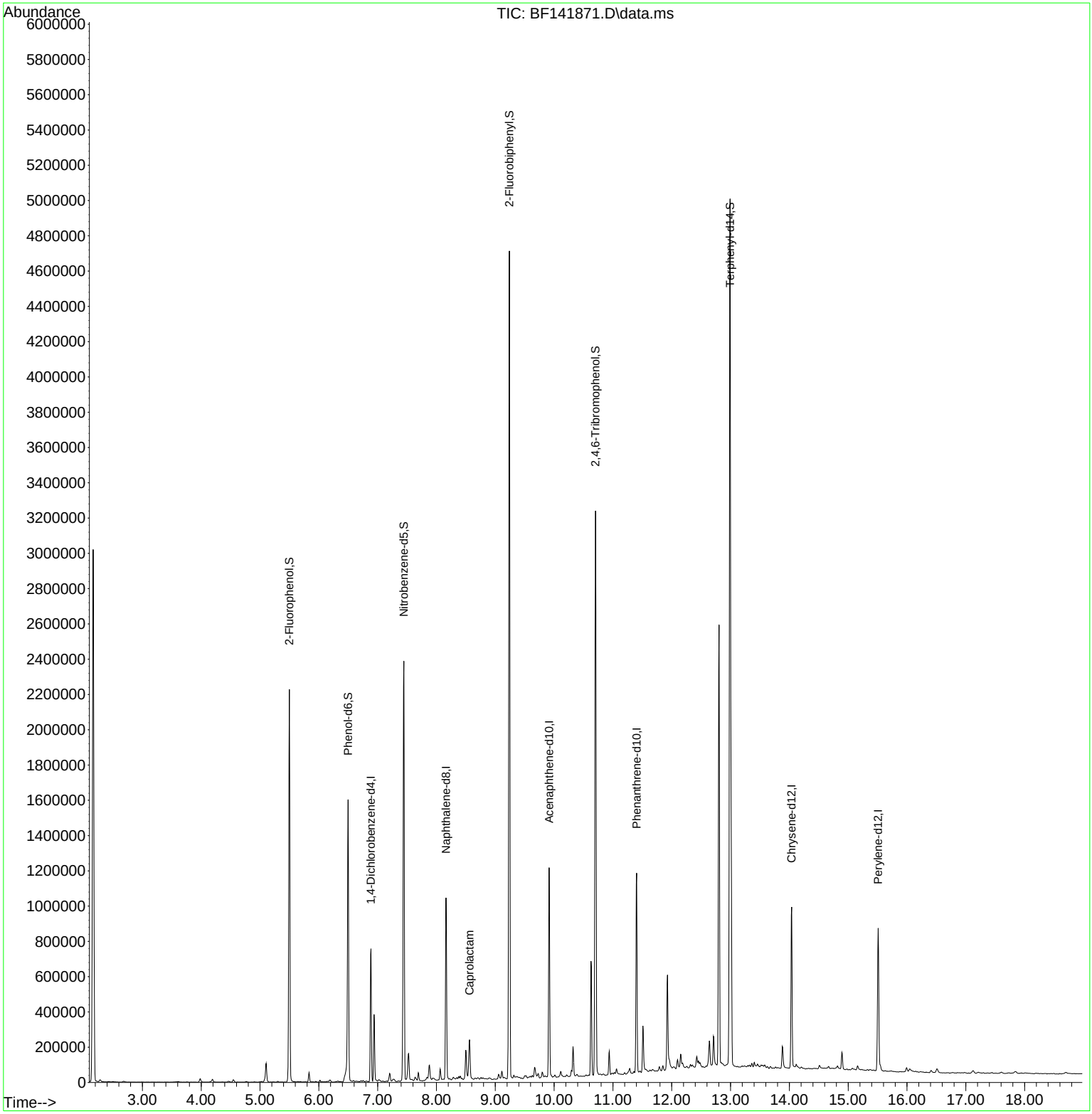
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	157960	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	631847	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	343111	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	586477	20.000	ng	# 0.00
76) Chrysene-d12	14.039	240	448542	20.000	ng	-0.01
86) Perylene-d12	15.510	264	460671	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	817936	82.694	ng	0.00
7) Phenol-d6	6.498	99	708314	55.018	ng	-0.01
23) Nitrobenzene-d5	7.445	82	1104750	111.761	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	561334	174.263	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	2021701	94.479	ng	0.00
79) Terphenyl-d14	12.992	244	2430546	87.671	ng	0.00
Target Compounds						Qvalue
35) Caprolactam	8.563	113	37378	13.492	ng	93

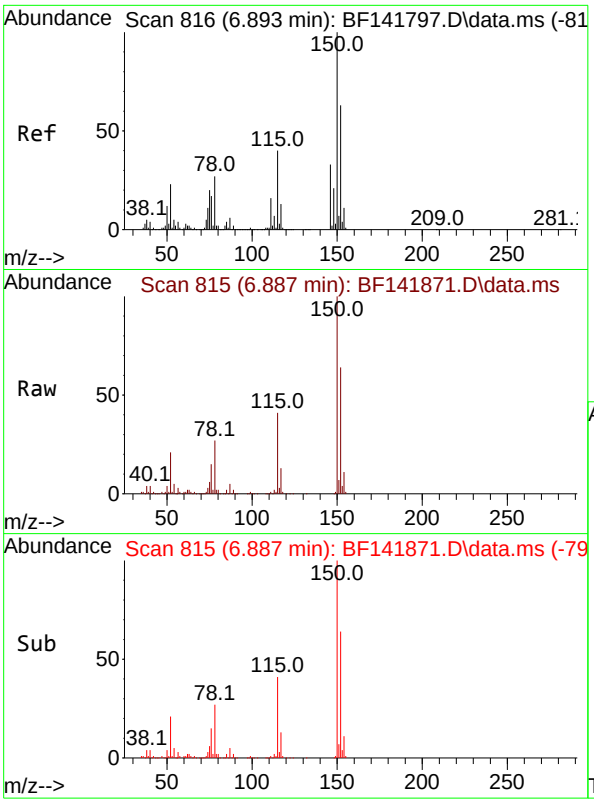
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Quant Time: Mar 06 16:56:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



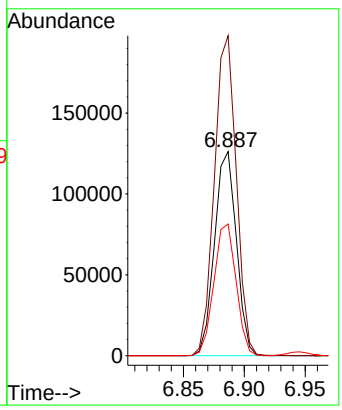


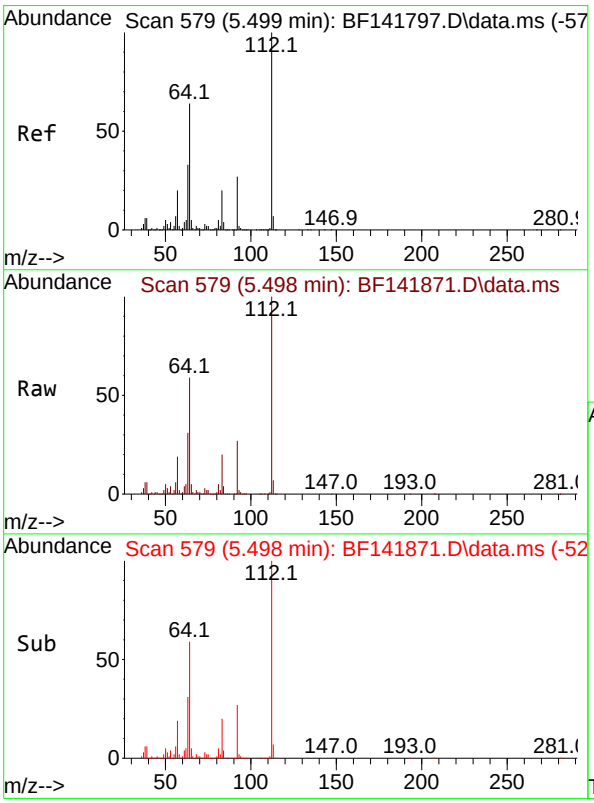
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Tgt Ion:152 Resp: 157960

Ion	Ratio	Lower	Upper
152	100		
150	156.7	127.5	191.3
115	64.5	51.4	77.2

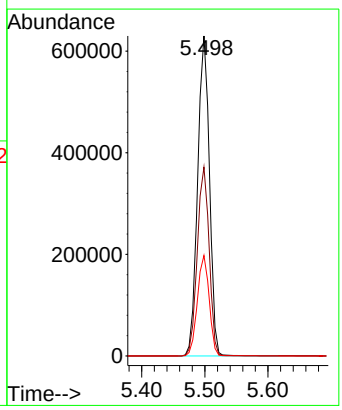


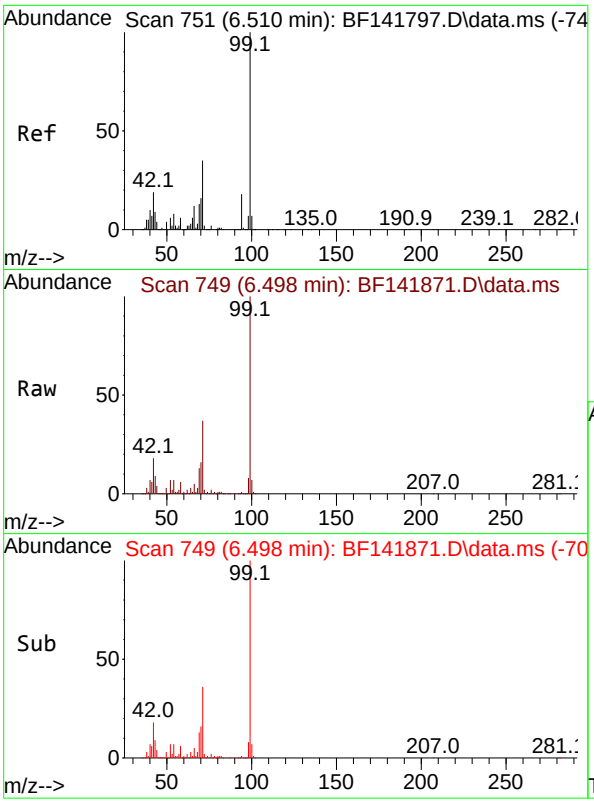


#5
2-Fluorophenol
Concen: 82.694 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Tgt Ion:112 Resp: 817936

Ion	Ratio	Lower	Upper
112	100		
64	59.0	51.3	76.9
63	31.4	26.2	39.4



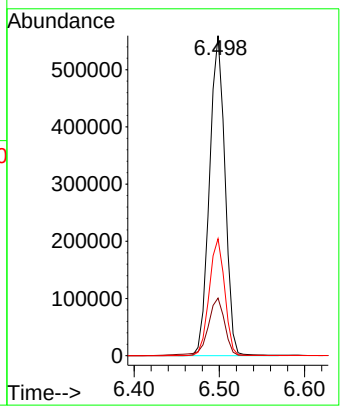


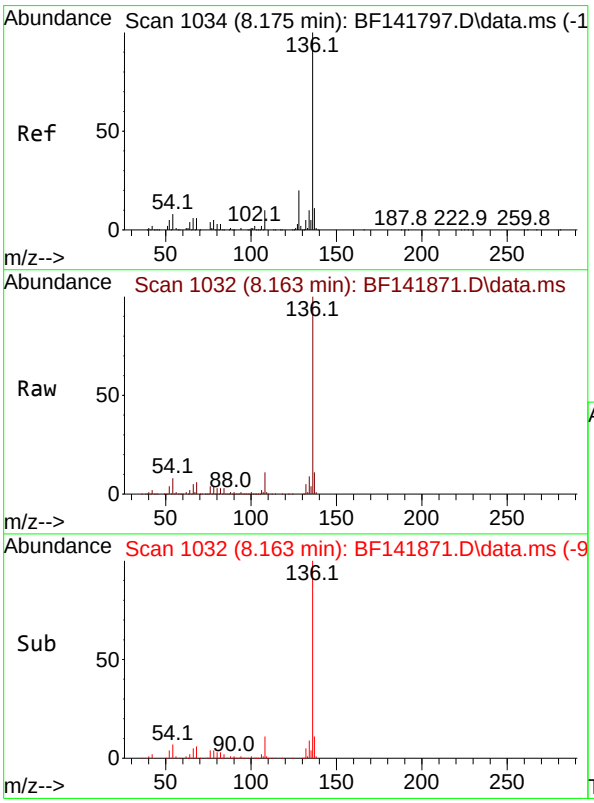
#7
Phenol-d6
Concen: 55.018 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Tgt Ion: 99 Resp: 708314

Ion	Ratio	Lower	Upper
99	100		
42	18.0	15.2	22.8
71	36.5	28.2	42.2

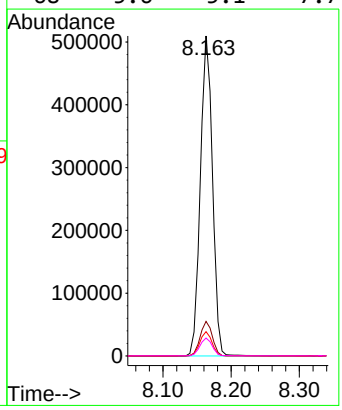


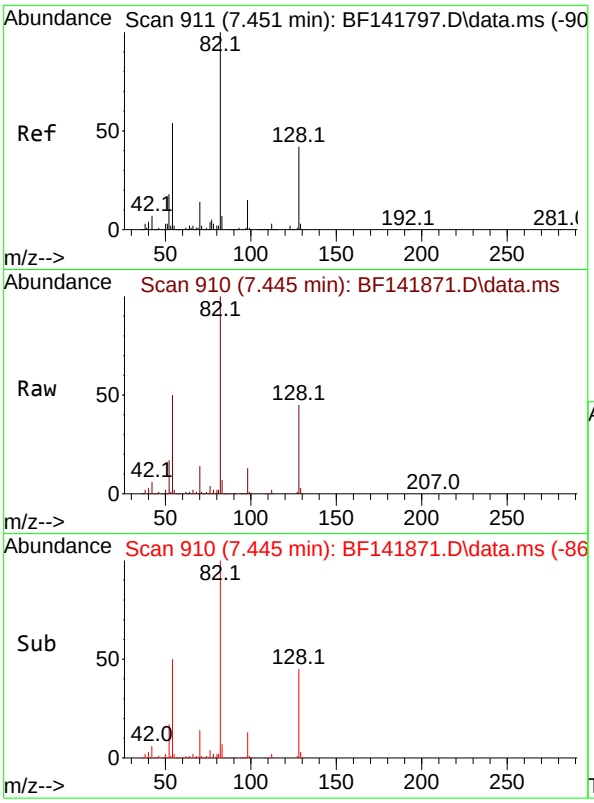


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Tgt Ion:136 Resp: 631847

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.9	13.3
54	7.6	6.9	10.3
68	5.6	5.1	7.7



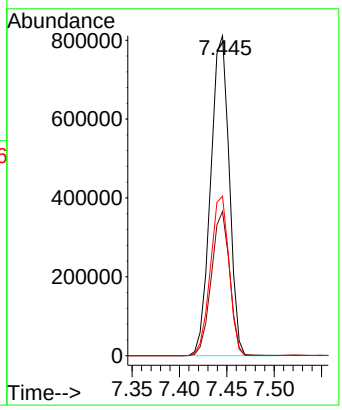


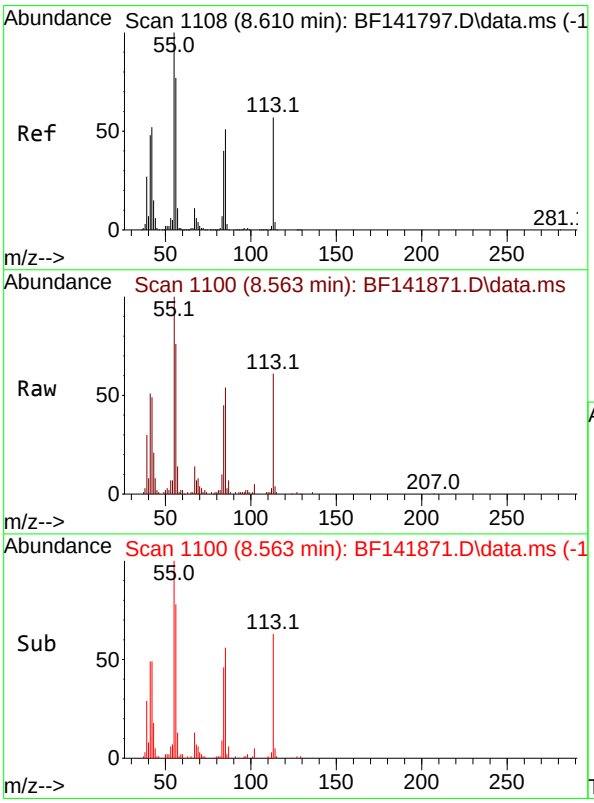
#23
Nitrobenzene-d5
Concen: 111.761 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Tgt Ion: 82 Resp: 1104750

Ion	Ratio	Lower	Upper
82	100		
128	45.1	33.5	50.3
54	49.8	42.7	64.1

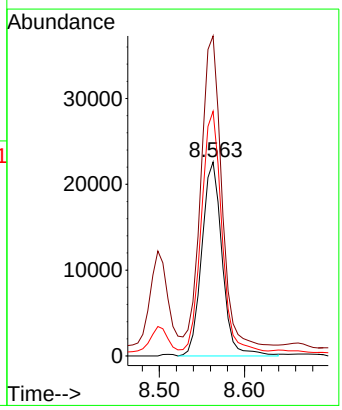


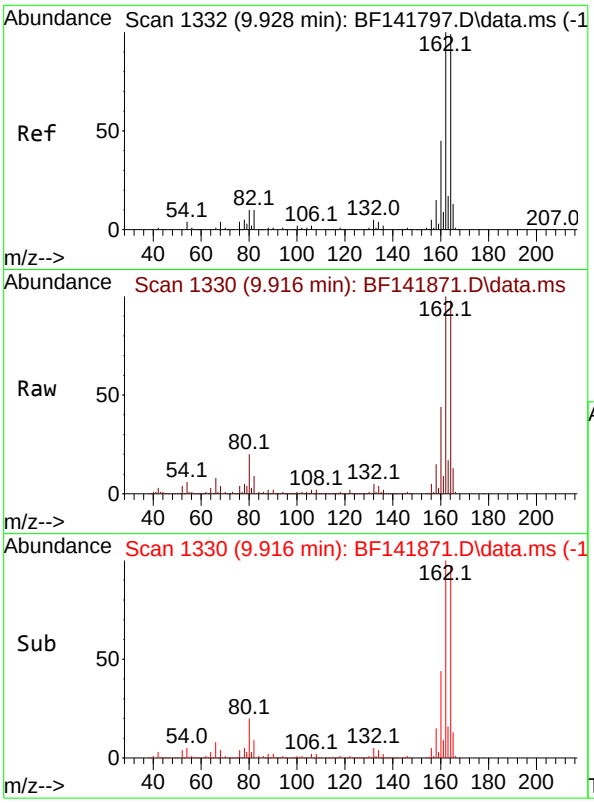


#35
Caprolactam
Concen: 13.492 ng
RT: 8.563 min Scan# 1100
Delta R.T. -0.047 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Tgt Ion:113 Resp: 37378

Ion	Ratio	Lower	Upper
113	100		
55	165.0	155.6	195.6
56	126.2	114.6	154.6



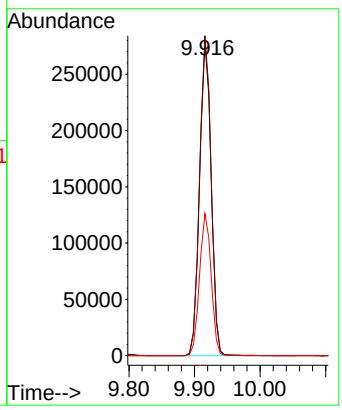


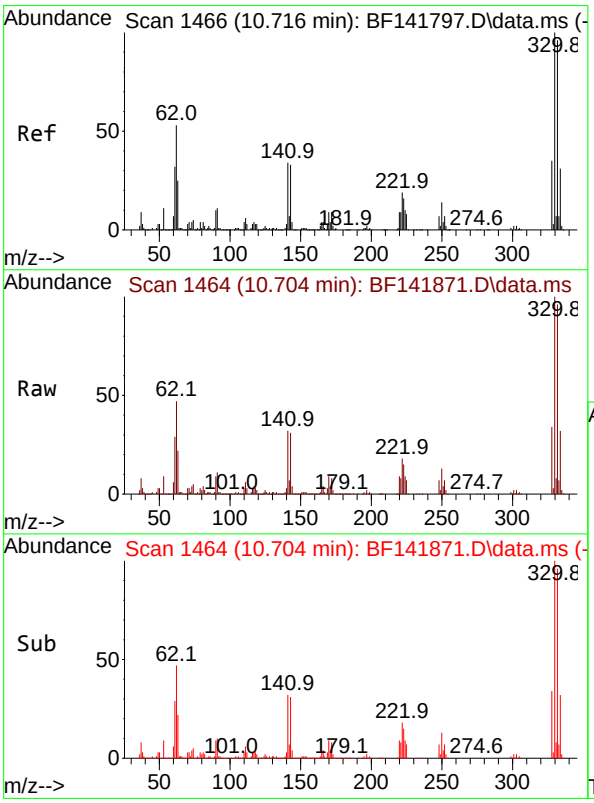
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Tgt Ion:164 Resp: 343111

Ion	Ratio	Lower	Upper
164	100		
162	102.4	80.6	120.8
160	45.5	36.3	54.5

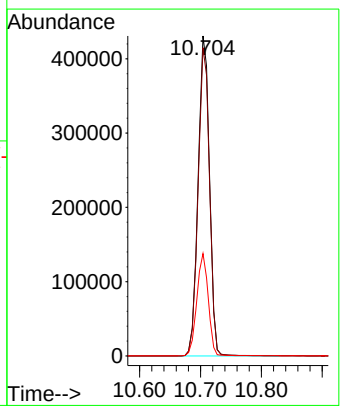


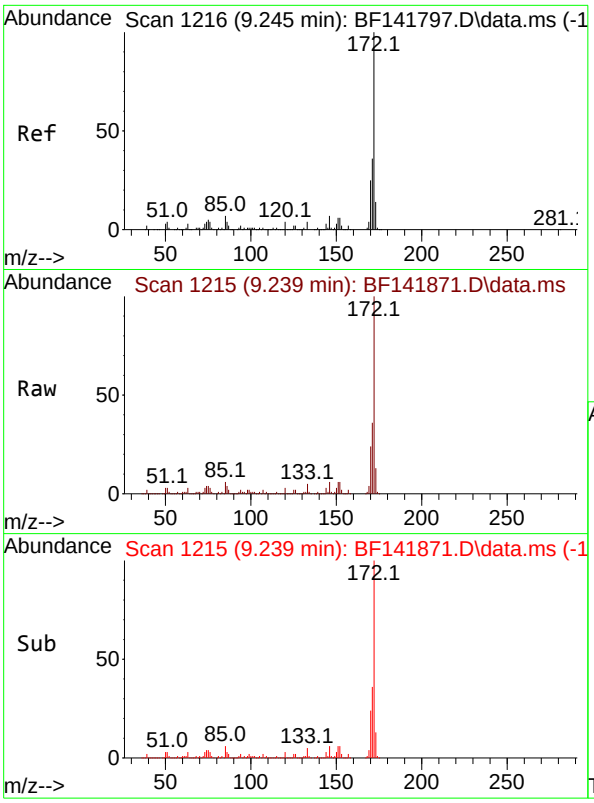


#42
2,4,6-Tribromophenol
Concen: 174.263 ng
RT: 10.704 min Scan# 1464
Delta R.T. -0.012 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Tgt Ion:330 Resp: 561334

Ion	Ratio	Lower	Upper
330	100		
332	96.5	76.6	115.0
141	32.0	29.0	43.4



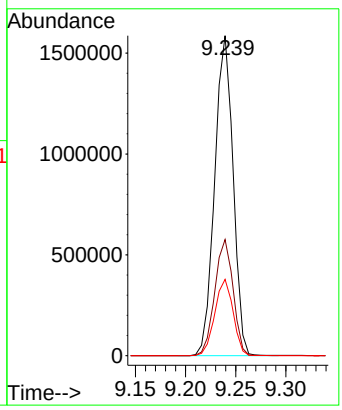


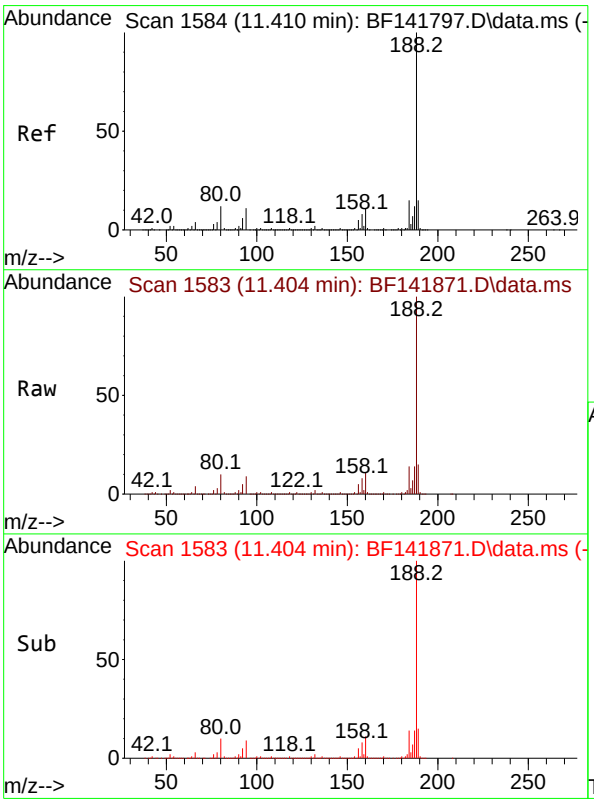
#45
2-Fluorobiphenyl
Concen: 94.479 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Tgt Ion:172 Resp: 2021701

Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.2	43.8
170	23.9	19.7	29.5

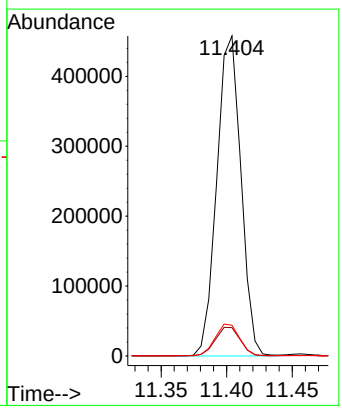


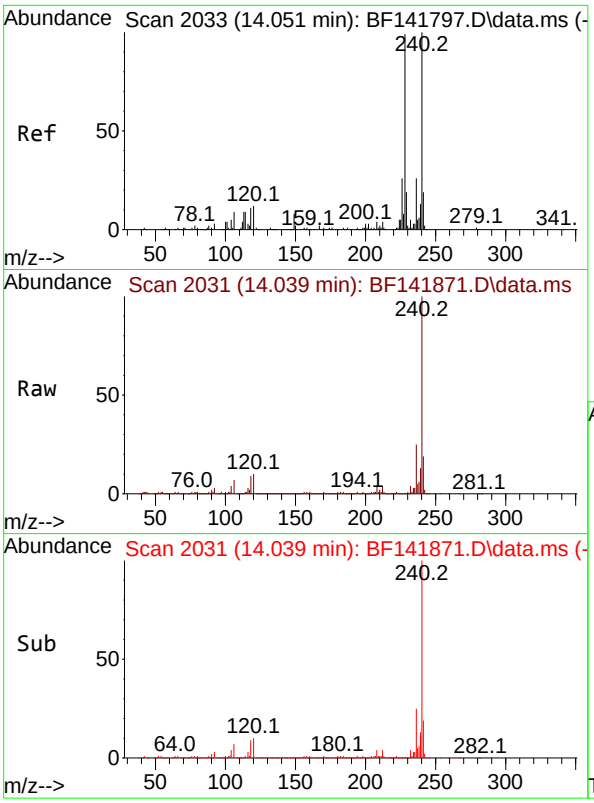


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Tgt Ion:188 Resp: 586477

Ion	Ratio	Lower	Upper
188	100		
94	8.9	8.9	13.3#
80	9.6	9.7	14.5#



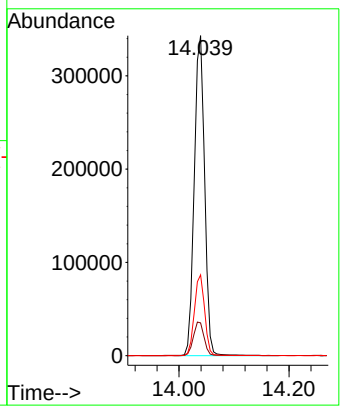


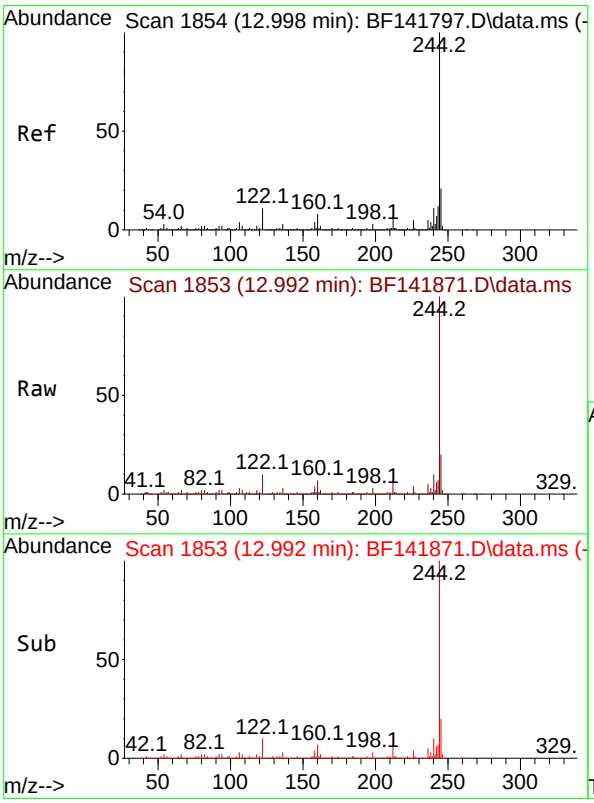
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Tgt Ion:240 Resp: 448542

Ion	Ratio	Lower	Upper
240	100		
120	10.3	9.7	14.5
236	25.3	21.0	31.4

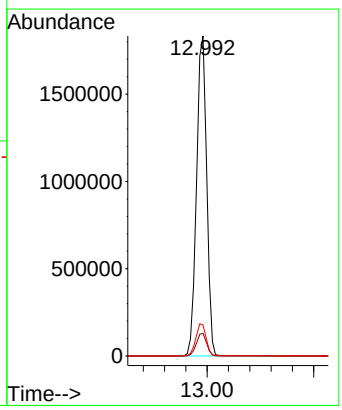


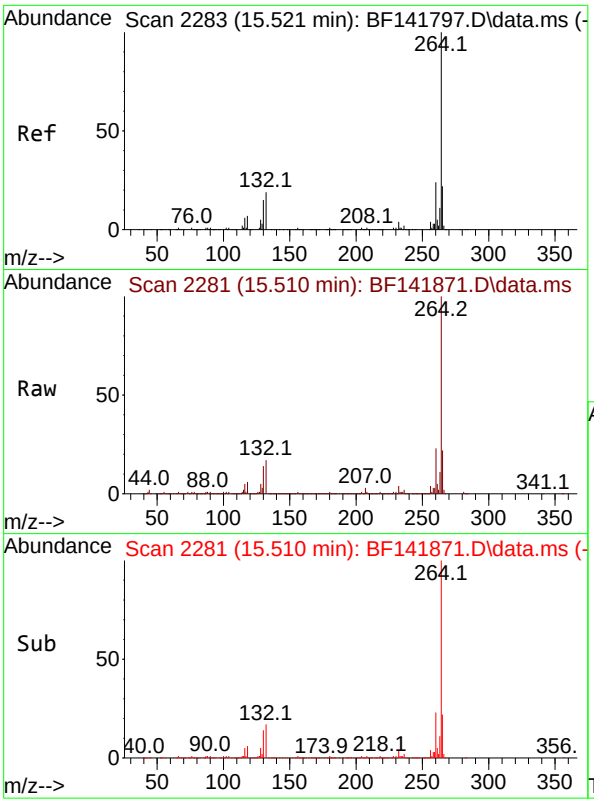


#79
Terphenyl-d14
Concen: 87.671 ng
RT: 12.992 min Scan# 1853
Delta R.T. -0.006 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Tgt Ion:244 Resp: 2430546

Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	9.7	9.0	13.6



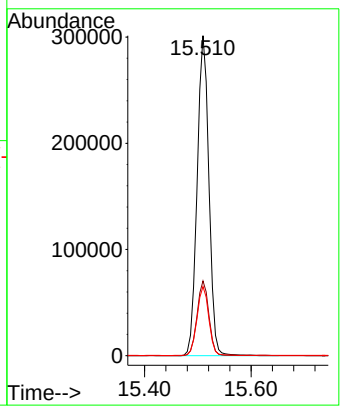


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Tgt Ion:264 Resp: 460671

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.9	28.3
265	21.6	17.4	26.0



Sample Results: **BF141871.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

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-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141871.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.163	3	12	19	rBV	3016352	4872593	60.84%	10.232%
2	5.104	503	512	521	rVB2	105976	179102	2.24%	0.376%
3	5.498	570	579	592	rBV	2225982	2938320	36.69%	6.170%
4	6.498	732	749	761	rBV	1600521	2279612	28.47%	4.787%
5	6.887	809	815	820	rBV	752922	960693	12.00%	2.017%
6	6.940	820	824	834	rVB	378499	474973	5.93%	0.997%
7	7.445	899	910	915	rBV	2382172	3259251	40.70%	6.844%
8	7.528	915	924	929	rVB	147960	258404	3.23%	0.543%
9	7.881	979	984	991	rVB2	81330	132060	1.65%	0.277%
10	8.063	1011	1015	1020	rBV	61750	81570	1.02%	0.171%
11	8.163	1027	1032	1040	rBV	1028838	1275634	15.93%	2.679%
12	8.498	1081	1089	1094	rBV2	166997	258256	3.22%	0.542%
13	8.563	1094	1100	1112	rVB	225054	390636	4.88%	0.820%
14	9.239	1209	1215	1220	rBV	4692181	6003064	74.96%	12.606%
15	9.669	1284	1288	1295	rBV	53551	90187	1.13%	0.189%
16	9.916	1325	1330	1335	rBV	1184540	1465251	18.30%	3.077%
17	10.322	1396	1399	1406	rVB2	166324	208266	2.60%	0.437%
18	10.628	1447	1451	1458	rVB	646631	818259	10.22%	1.718%
19	10.704	1458	1464	1469	rBV	3200175	4167822	52.04%	8.752%
20	10.939	1499	1504	1508	rBV	133446	167781	2.10%	0.352%
21	11.404	1577	1583	1589	rBV	1130756	1466662	18.31%	3.080%
22	11.510	1596	1601	1608	rBV	264890	386031	4.82%	0.811%
23	11.927	1667	1672	1686	rBV2	533555	818519	10.22%	1.719%
24	12.151	1707	1710	1714	rBV	67720	94576	1.18%	0.199%
25	12.427	1753	1757	1760	rBV	55443	82511	1.03%	0.173%
26	12.639	1789	1793	1799	rVB	137465	195766	2.44%	0.411%
27	12.710	1801	1805	1815	rBV	163085	233284	2.91%	0.490%
28	12.804	1815	1821	1826	rBV	2495070	3186351	39.79%	6.691%
29	12.992	1847	1853	1861	rVB2	4906573	8008284	100.00%	16.817%
30	13.880	2000	2004	2021	rVB	122824	195898	2.45%	0.411%
31	14.039	2025	2031	2041	rBV	912404	1228364	15.34%	2.580%
32	14.892	2172	2176	2186	rVB	98122	144783	1.81%	0.304%
33	15.510	2275	2281	2297	rVB	810124	1296892	16.19%	2.723%

Sum of corrected areas: 47619655

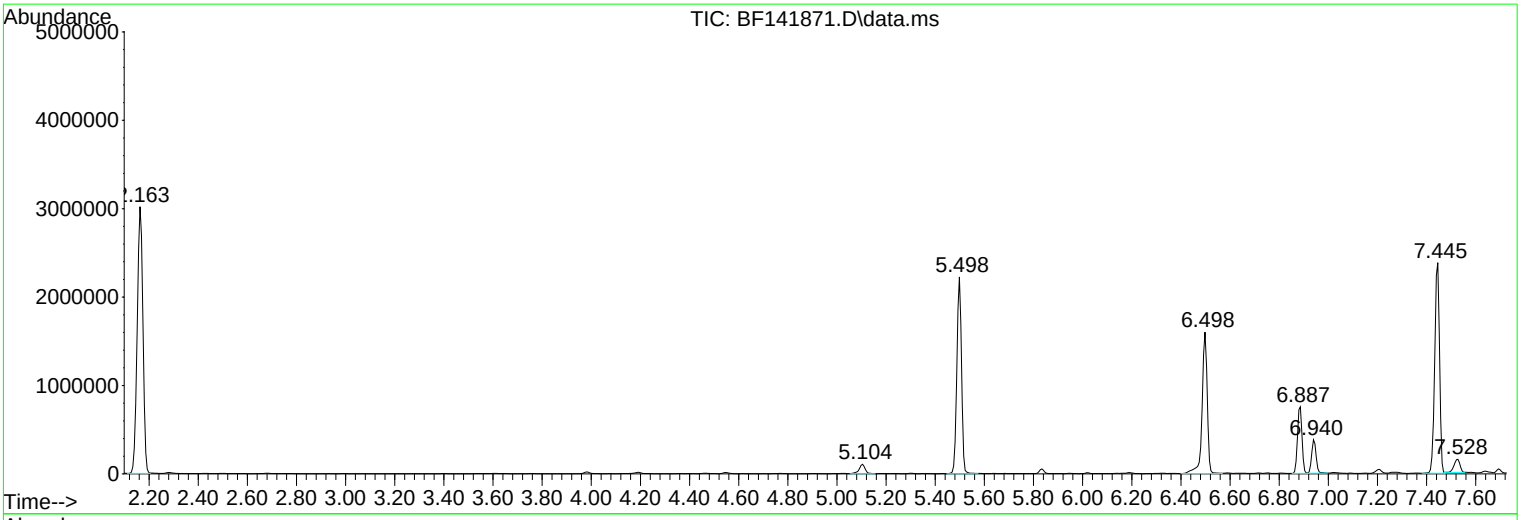
Sample Results: **BF141871.D**

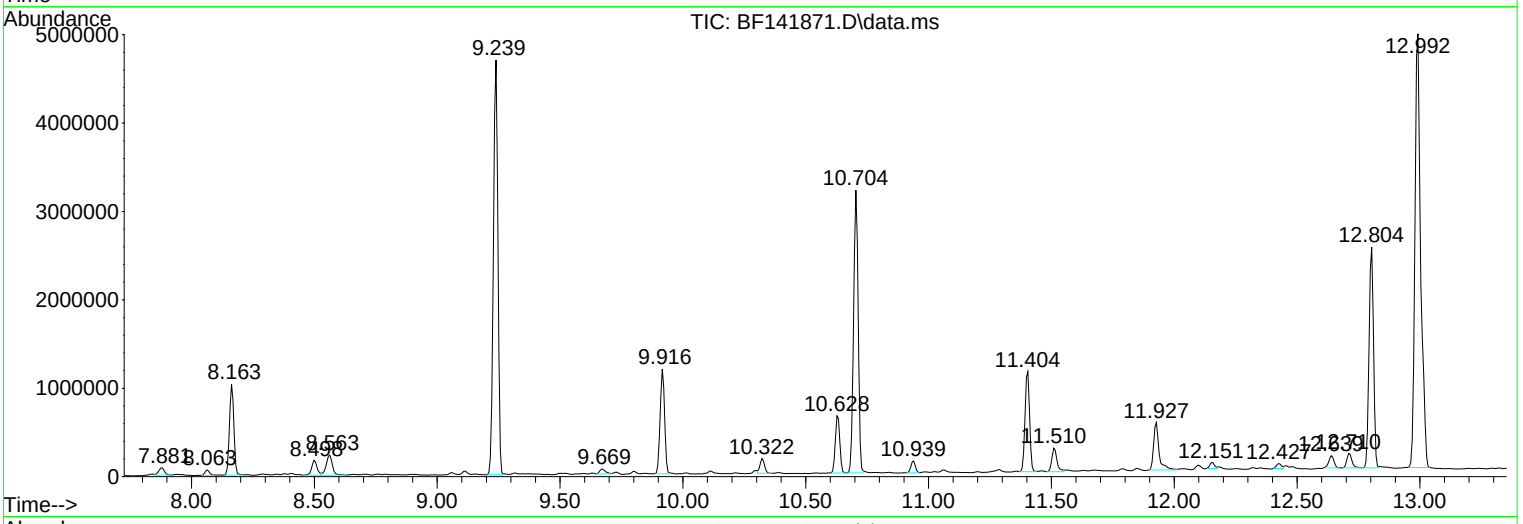
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

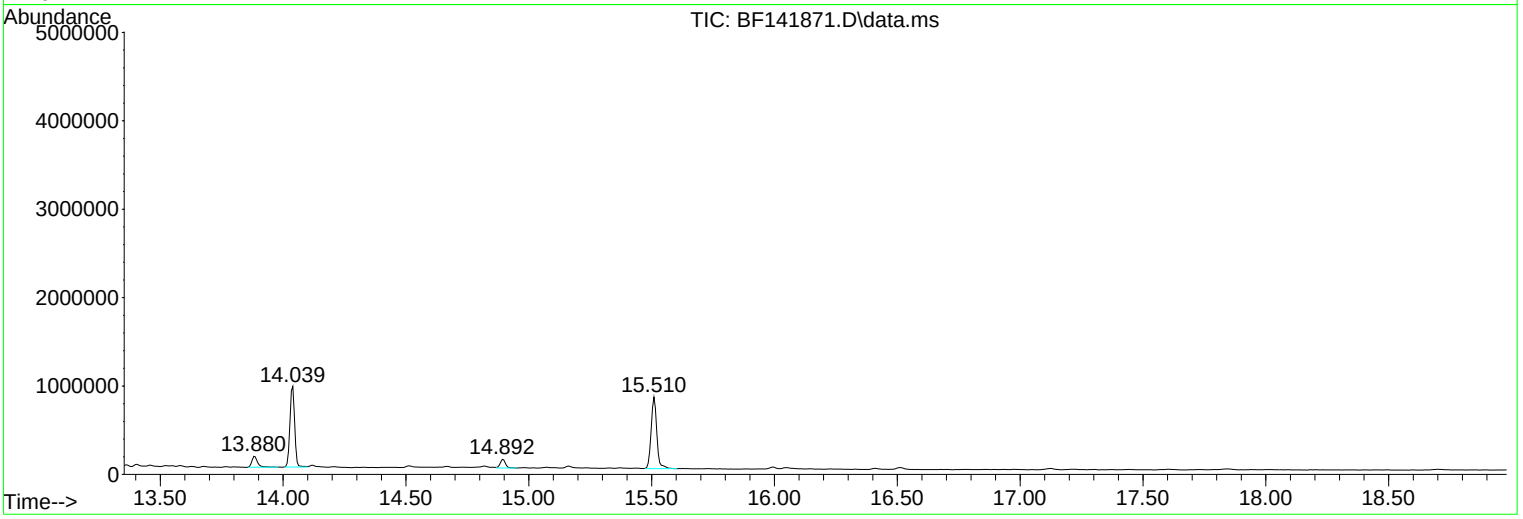
Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Sample Results: **BF141871.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

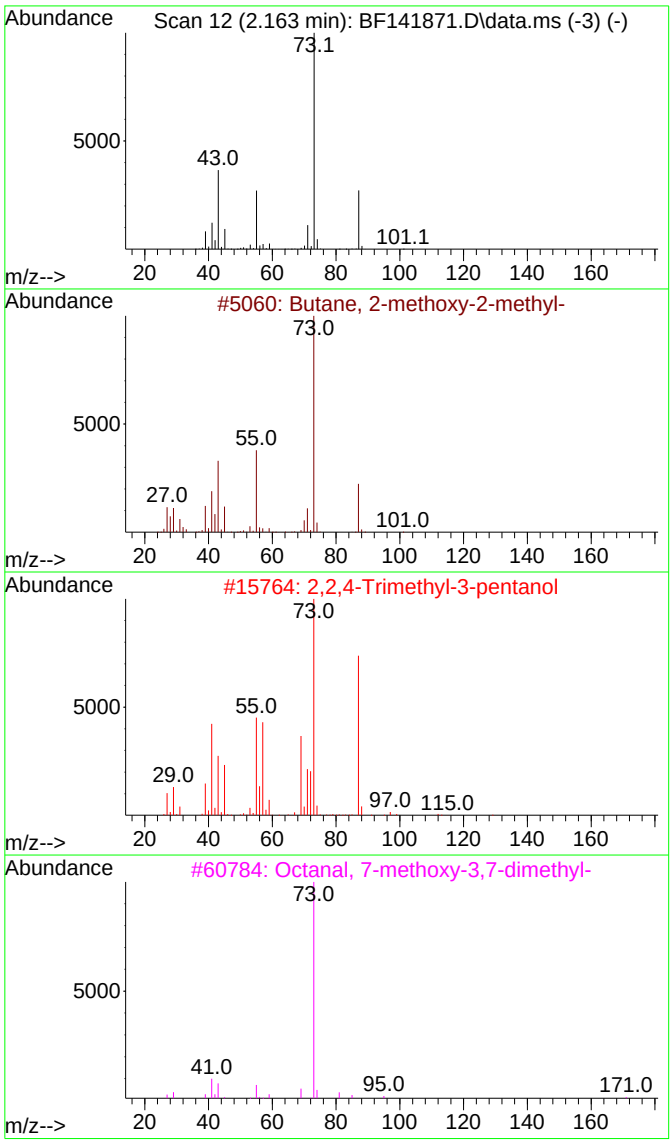
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

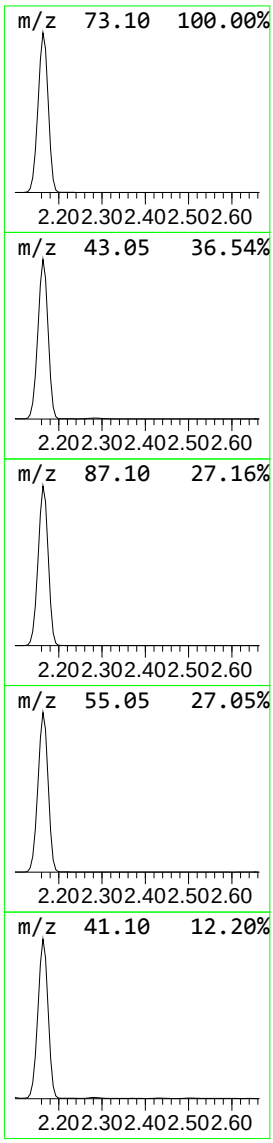
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.163	101.44 ng	4872590	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	23
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
5	Silane, tetramethyl-	88	C4H12Si	000075-76-3	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

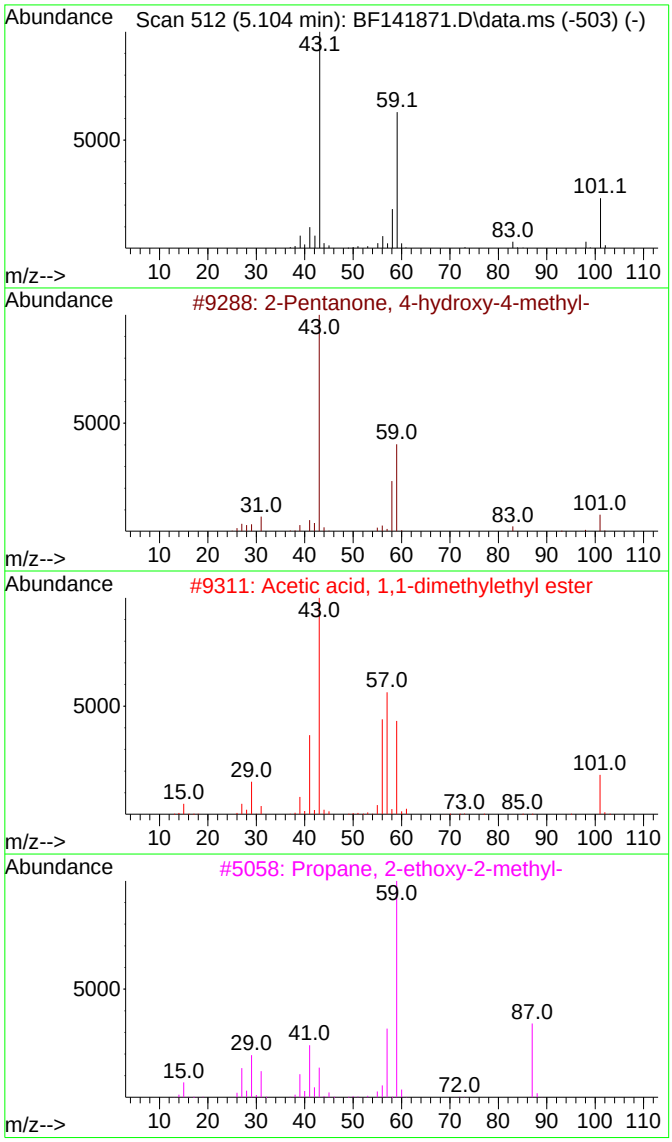
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

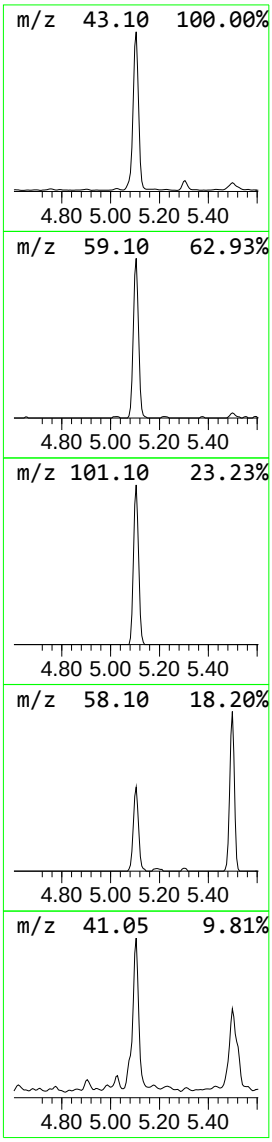
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.104	3.73 ng	179102	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
3	Propane, 2-ethoxy-2-methyl-	102	C6H14O	000637-92-3	17
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5	Acetone	58	C3H6O	000067-64-1	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

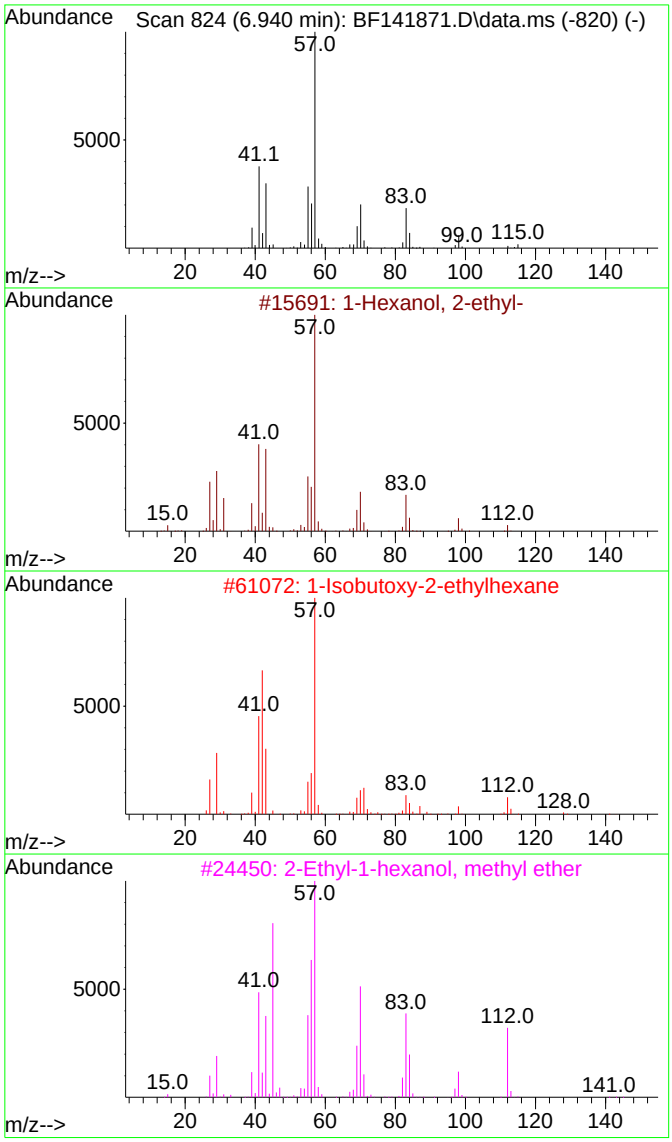
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

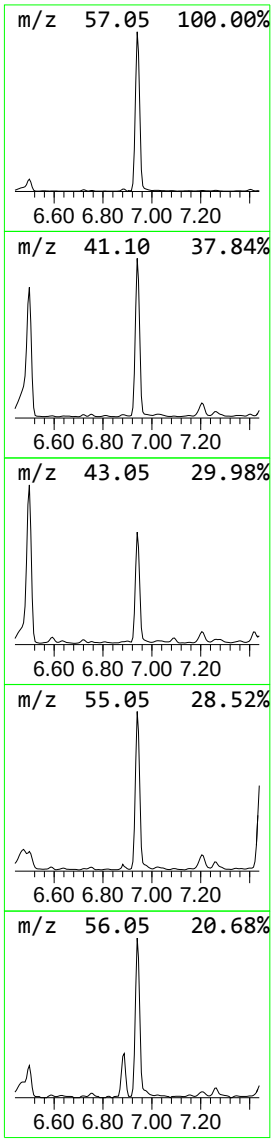
****

Peak Number 3 1-Hexanol, 2-ethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.940	9.89 ng	474973	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	78
2	1-Isobutoxy-2-ethylhexane	186	C12H26O	1000139-90-3	64
3	2-Ethyl-1-hexanol, methyl ether	144	C9H20O	1000365-10-2	53
4	Pentadecafluorooctanoic acid, 2-...	526	C16H17F15O2	1000406-80-9	42
5	2-Propyl-1-pentanol	130	C8H18O	058175-57-8	42





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Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

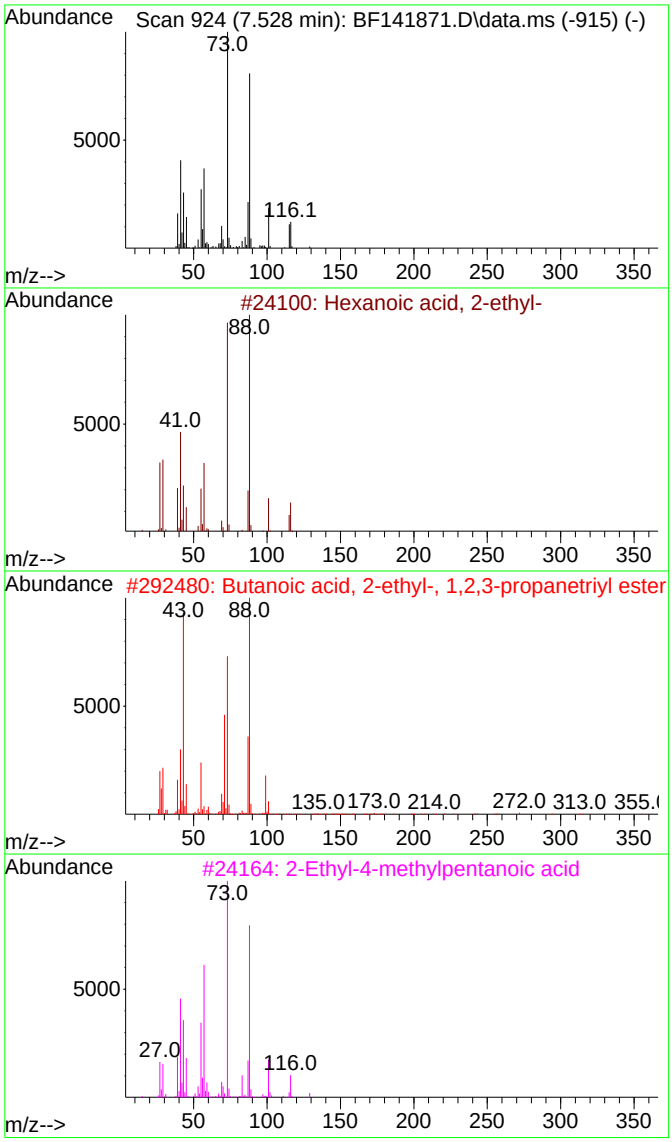
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

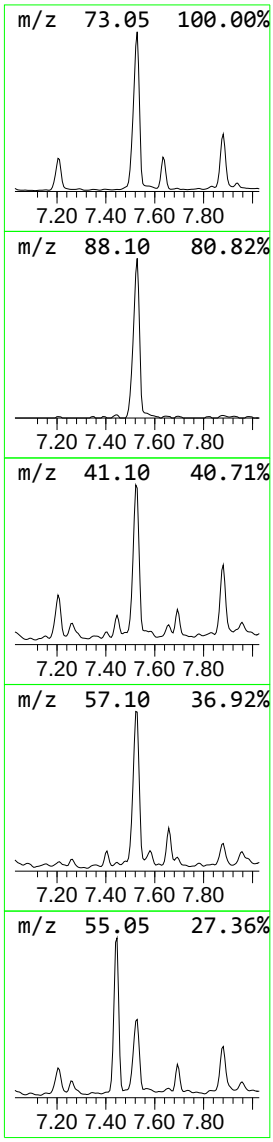
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Hexanoic acid, 2-ethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.528	4.05 ng	258404	Naphthalene-d8	8.163

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	90
2	Butanoic acid, 2-ethyl-, 1,2,3-p...	386	C21H38O6	056554-54-2	59
3	2-Ethyl-4-methylpentanoic acid	144	C8H16O2	000108-81-6	56
4	Heptanoic acid, ethyl ester	158	C9H18O2	000106-30-9	45
5	1,4-Dioxane	88	C4H8O2	000123-91-1	43





Sample Results: **BF141871.D**

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Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

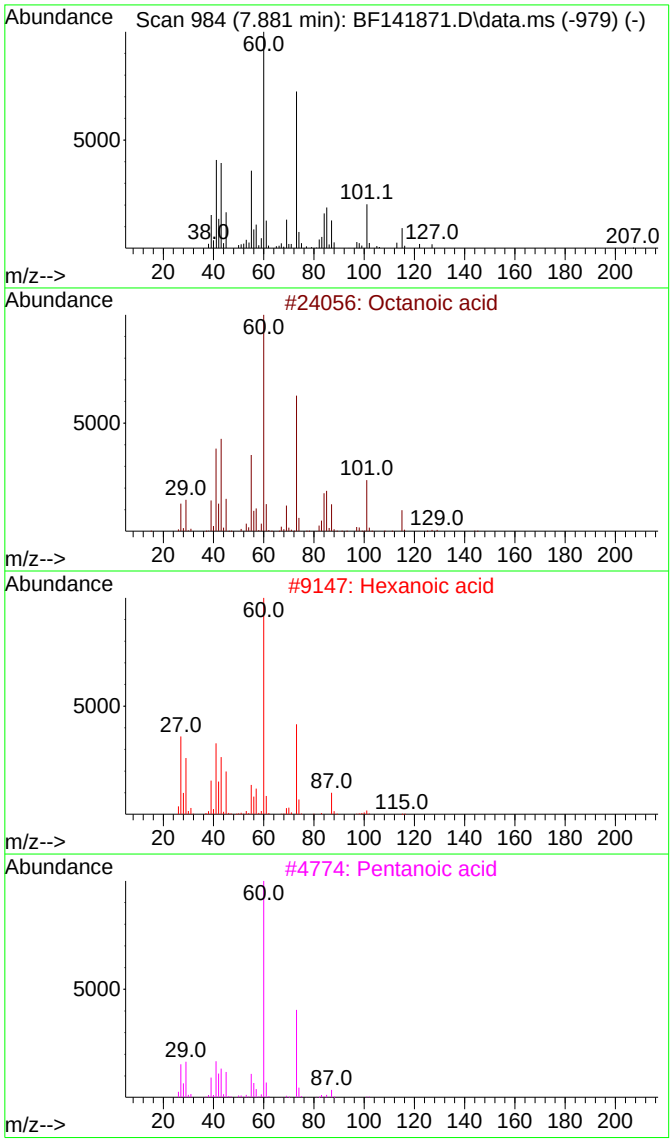
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

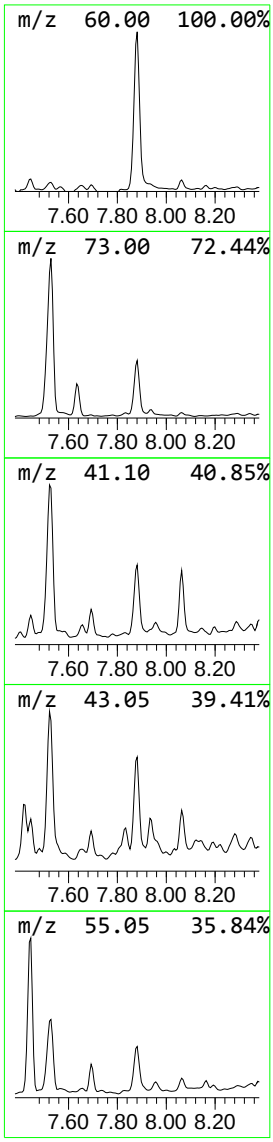
****

Peak Number 5 Octanoic acid Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.881	2.07 ng	132060	Naphthalene-d8	8.163

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octanoic acid	144	C8H16O2	000124-07-2	91
2	Hexanoic acid	116	C6H12O2	000142-62-1	53
3	Pentanoic acid	102	C5H10O2	000109-52-4	50
4	Butanoic acid, 3-methyl-	102	C5H10O2	000503-74-2	50
5	Heptanoic acid	130	C7H14O2	000111-14-8	40





Sample Results: **BF141871.D**

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Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

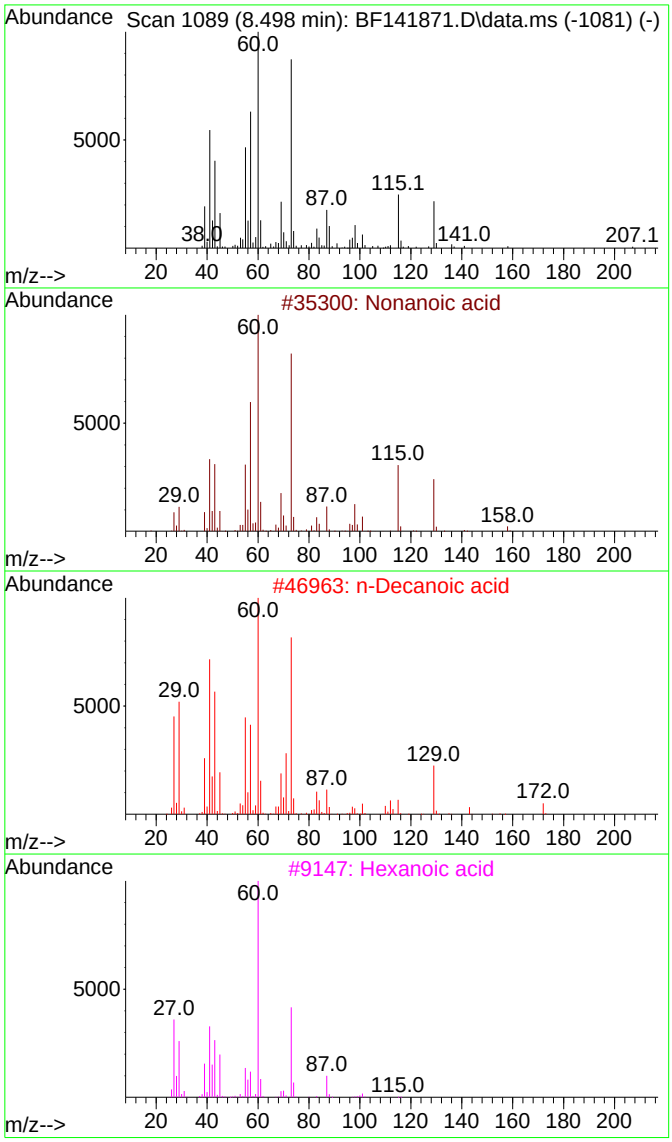
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

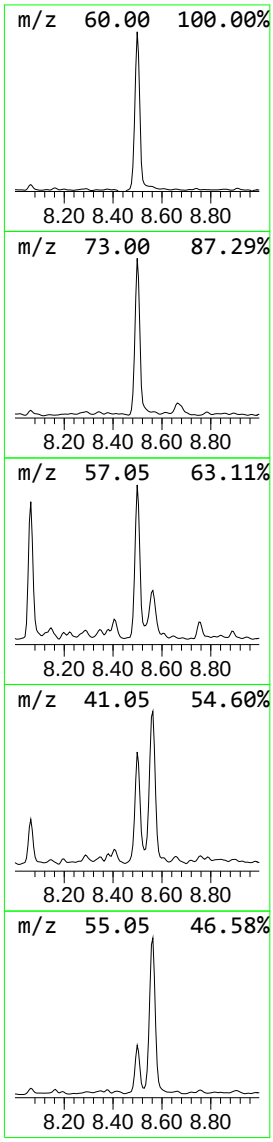
****

Peak Number 6 Nonanoic acid Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.498	4.05 ng	258256	Naphthalene-d8	8.163

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonanoic acid	158	C9H18O2	000112-05-0	94
2	n-Decanoic acid	172	C10H20O2	000334-48-5	59
3	Hexanoic acid	116	C6H12O2	000142-62-1	50
4	Octanoic acid	144	C8H16O2	000124-07-2	47
5	Pentanoic acid, 3-methyl-	116	C6H12O2	000105-43-1	43





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Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

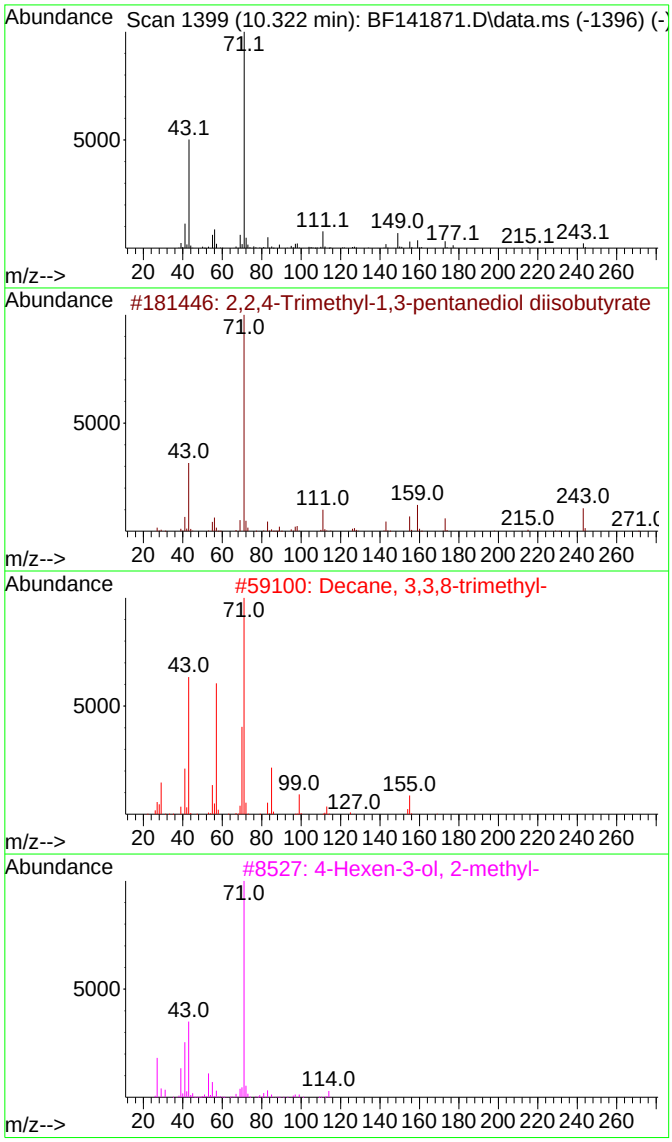
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

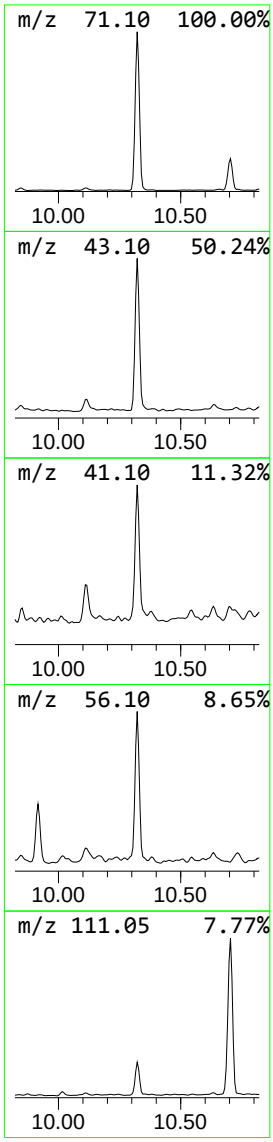
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 2,2,4-Trimethyl-1,3-pentane... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.322	2.84 ng	208266	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2,4-Trimethyl-1,3-pentanediol ...	286	C16H30O4	006846-50-0	78
2	Decane, 3,3,8-trimethyl-	184	C13H28	062338-16-3	45
3	4-Hexen-3-ol, 2-methyl-	114	C7H14O	004798-60-1	45
4	Cyclopropanemethanol, .alpha.-bu...	128	C8H16O	004379-16-2	45
5	Succinic acid, 2,2-dichloroethyl...	298	C11H16Cl2O5	1000390-71-6	45





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Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

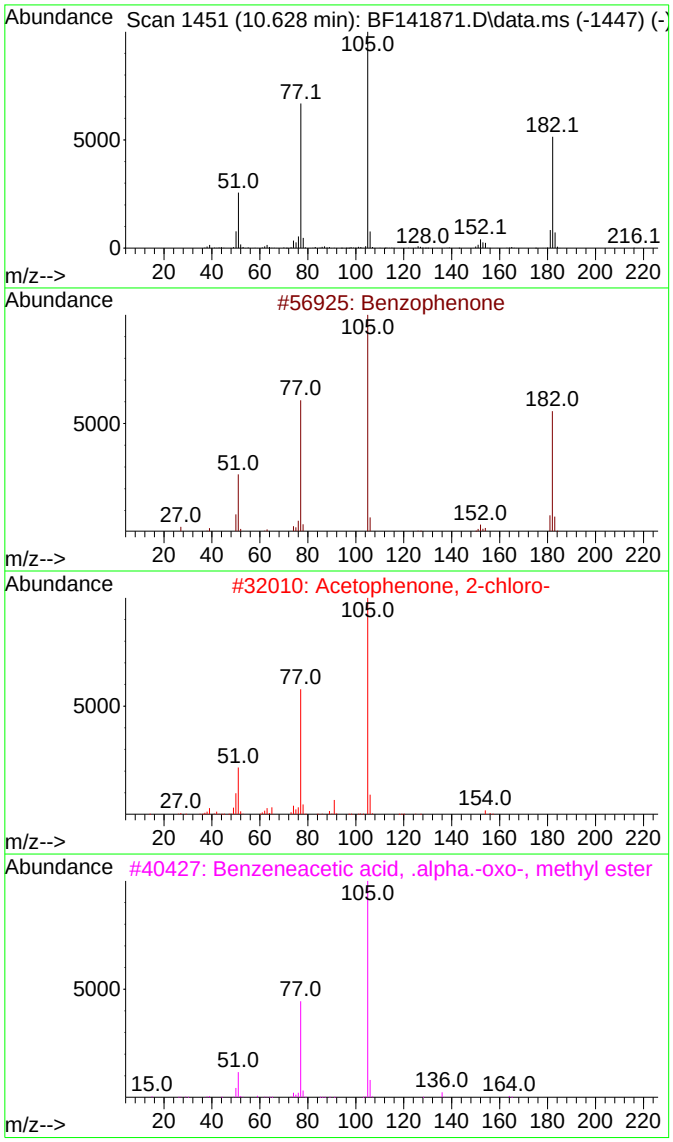
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

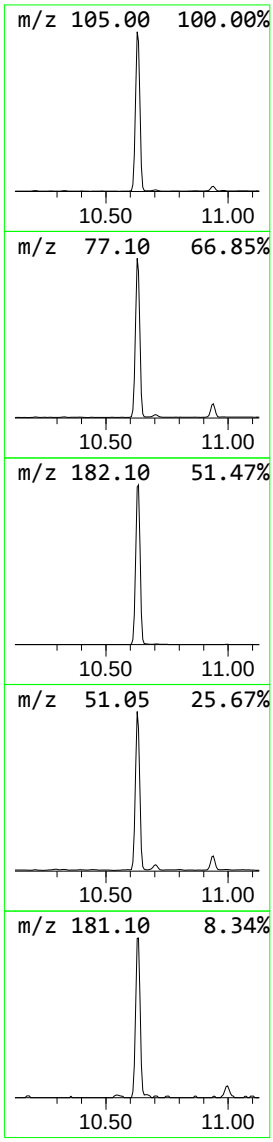
****

Peak Number 8 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.628	11.17 ng	818259	Acenaphthene-d10	9.916

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	Benzeneacetic acid, .alpha.-oxo-...	164	C9H8O3	015206-55-0	49
4	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47
5	N-Methylbenzamide, N-trifluoroac...	231	C10H8F3NO2	1000446-91-5	47





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Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

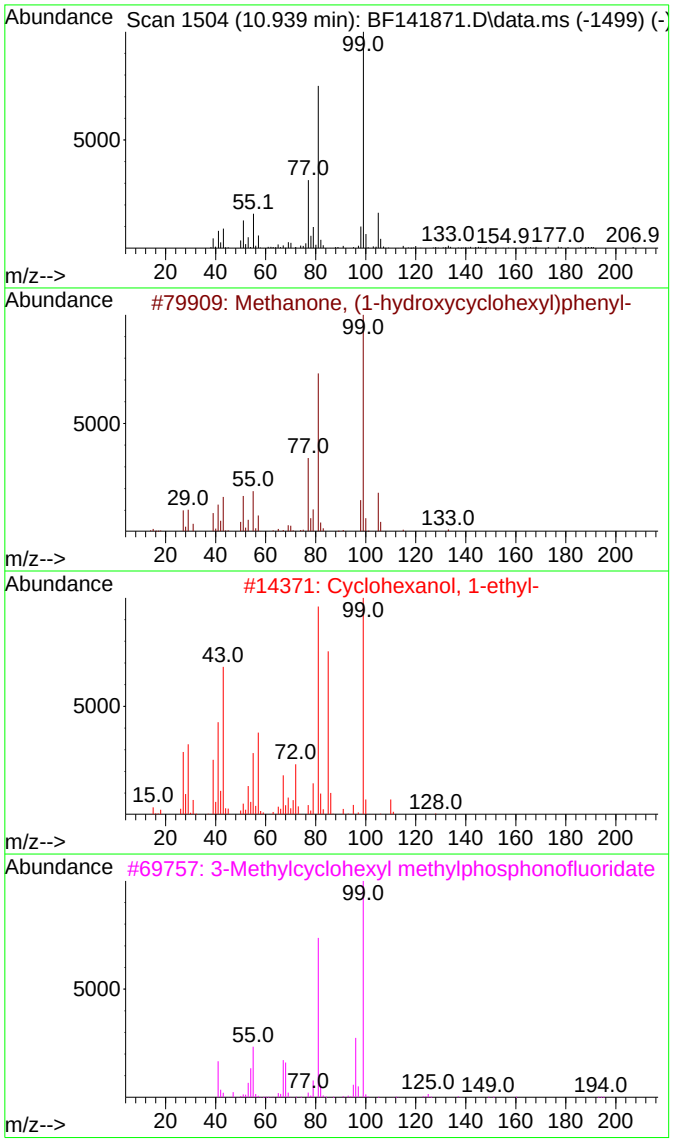
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

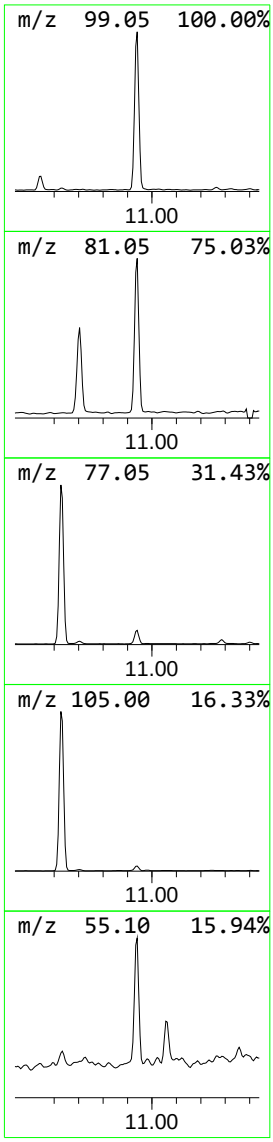
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Methanone, (1-hydroxycycloh... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.939	2.29 ng	167781	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methanone, (1-hydroxycyclohexyl)...	204	C13H16O2	000947-19-3	83
2	Cyclohexanol, 1-ethyl-	128	C8H16O	001940-18-7	45
3	3-Methylcyclohexyl methylphospho...	194	C8H16FO2P	113548-86-0	42
4	Cyclopentane, 1-methyl-2-methylene-	96	C7H12	041158-41-2	16
5	1,1'-Bicyclohexyl-1,1'-diol	198	C12H22O2	002888-11-1	16





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Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
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ClientSampleId :
ENV-102-GW01

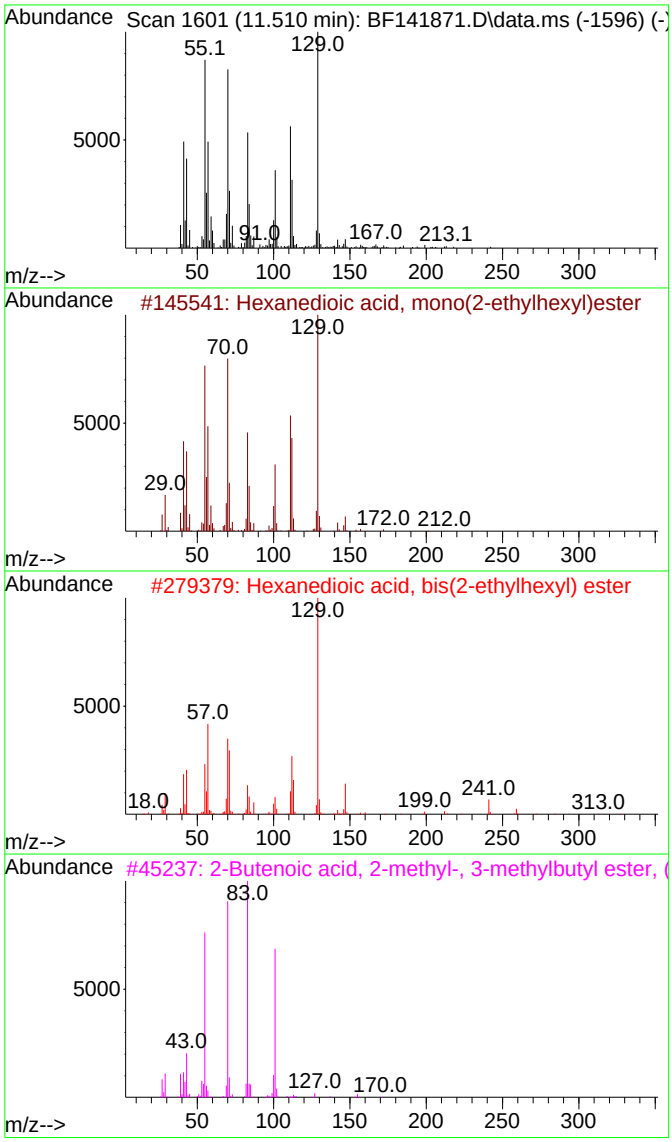
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

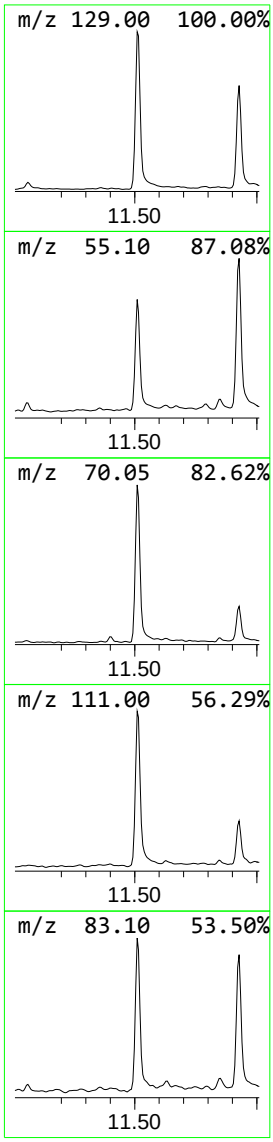
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Hexanedioic acid, mono(2-et... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.510	5.26 ng	386031	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanedioic acid, mono(2-ethylhe...	258	C14H26O4	004337-65-9	86
2	Hexanedioic acid, bis(2-ethylhex...	370	C22H42O4	000103-23-1	38
3	2-Butenoic acid, 2-methyl-, 3-me...	170	C10H18O2	041519-18-0	35
4	4-Undecene, 9-methyl-, (Z)-	168	C12H24	074630-56-1	27
5	Cyclobutanecarboxylic acid, dode...	268	C17H32O2	1000280-40-8	22





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Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
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ClientSampleId :
ENV-102-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

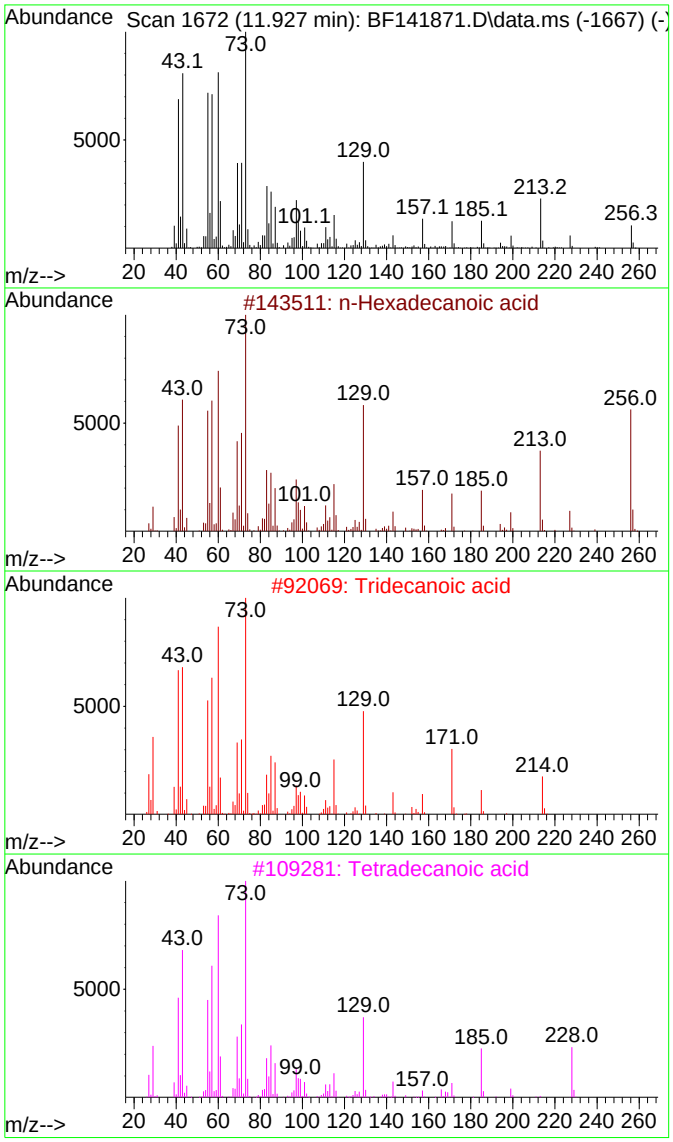
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

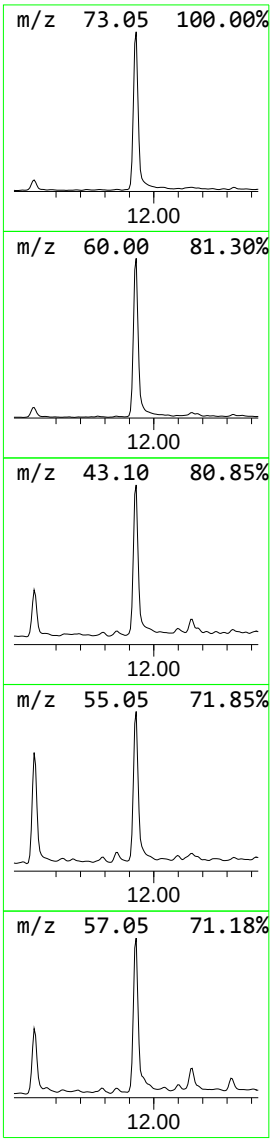
****

Peak Number 11 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.928	11.16 ng	818519	Phenanthrene-d10	11.404

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	Tetradecanoic acid	228	C14H28O2	000544-63-8	93
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
5	n-Decanoic acid	172	C10H20O2	000334-48-5	68





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Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

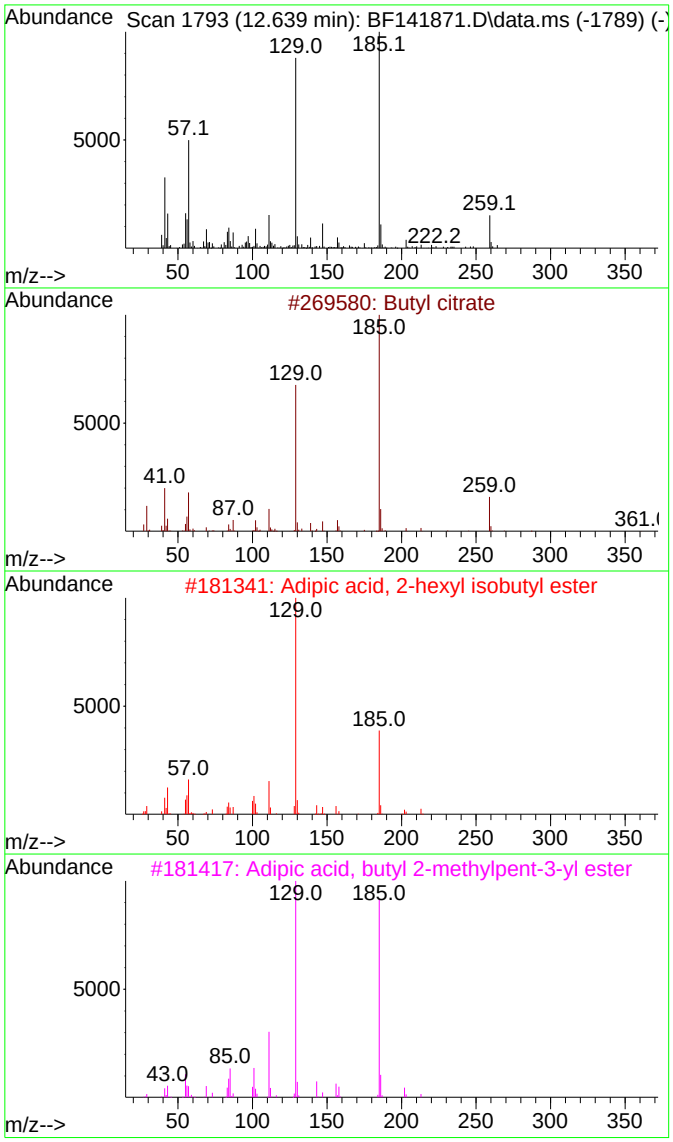
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

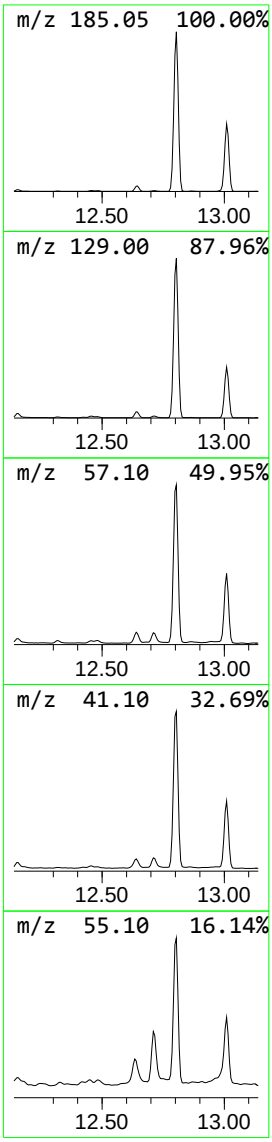
****

Peak Number 12 Butyl citrate Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.639	2.67 ng	195766	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl citrate	360	C18H32O7	000077-94-1	87
2	Adipic acid, 2-hexyl isobutyl ester	286	C16H30O4	1000353-70-9	72
3	Adipic acid, butyl 2-methylpent-...	286	C16H30O4	1010353-55-8	56
4	Adipic acid, isobutyl 2-pentyl e...	272	C15H28O4	1000324-15-6	56
5	Adipic acid, 2-decyl isobutyl ester	342	C20H38O4	1000353-59-6	50





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

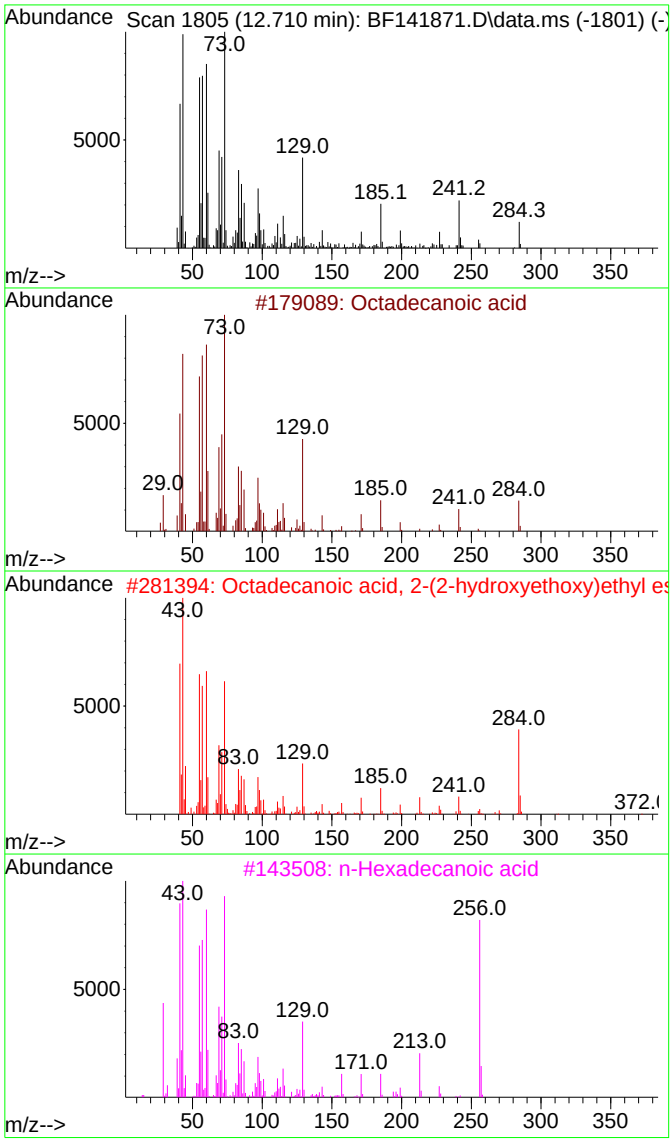
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

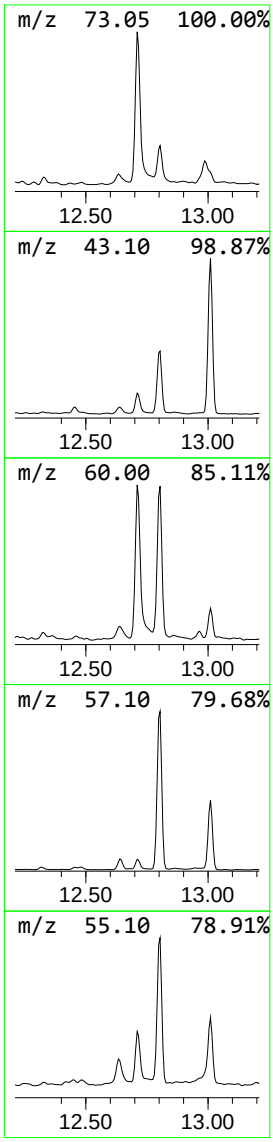
****

Peak Number 13 Octadecanoic acid Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.710	3.18 ng	233284	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	91
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	91
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	87





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ALS Vial : 15 Sample Multiplier: 1

Instrument :
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ClientSampleId :
ENV-102-GW01

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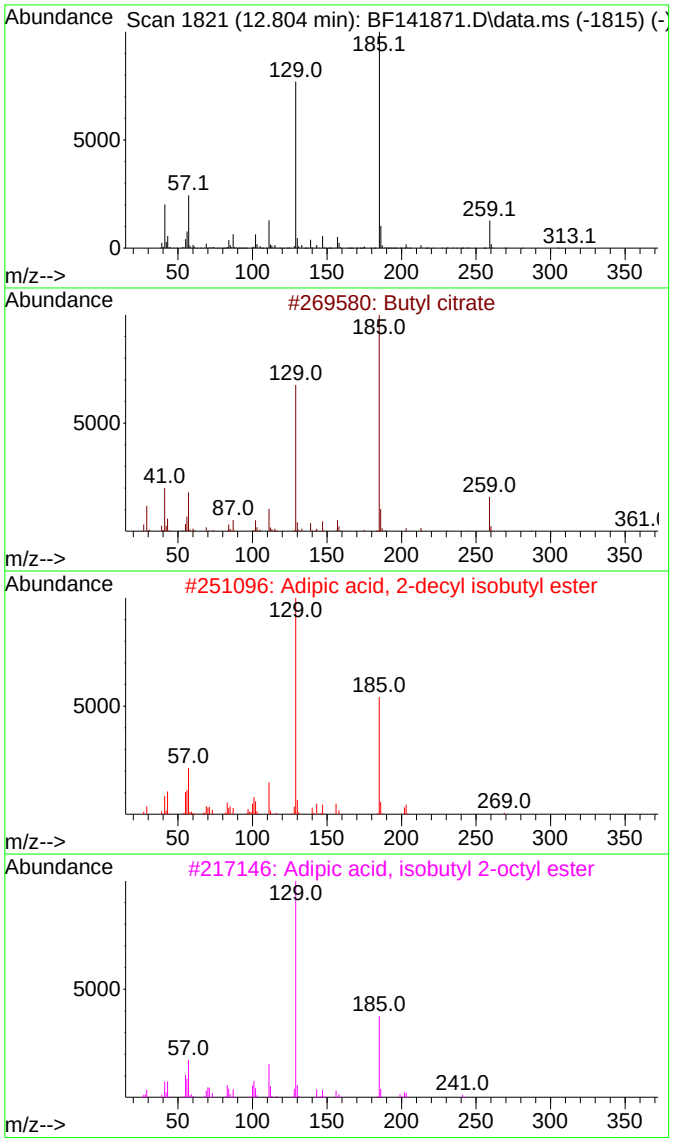
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

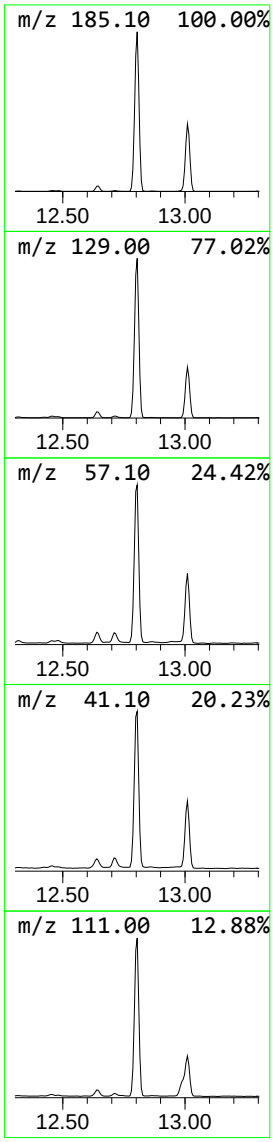
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 14 Adipic acid, 2-decyl isobut... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.804	51.88 ng	3186350	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl citrate	360	C18H32O7	000077-94-1	91
2	Adipic acid, 2-decyl isobutyl ester	342	C20H38O4	1000353-59-6	78
3	Adipic acid, isobutyl 2-octyl ester	314	C18H34O4	1000324-44-5	64
4	Adipic acid, 3,3-dimethylbut-2-y...	286	C16H30O4	1000353-66-7	56
5	Adipic acid, 2-ethylcyclohexyl i...	312	C18H32O4	1000324-22-5	56





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

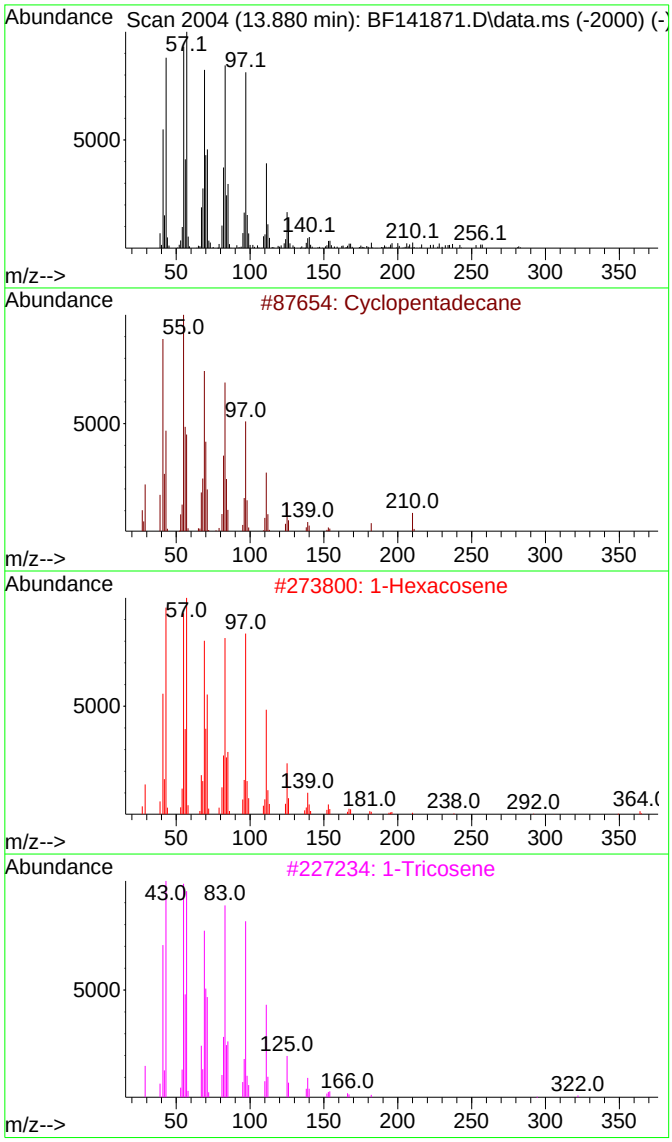
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

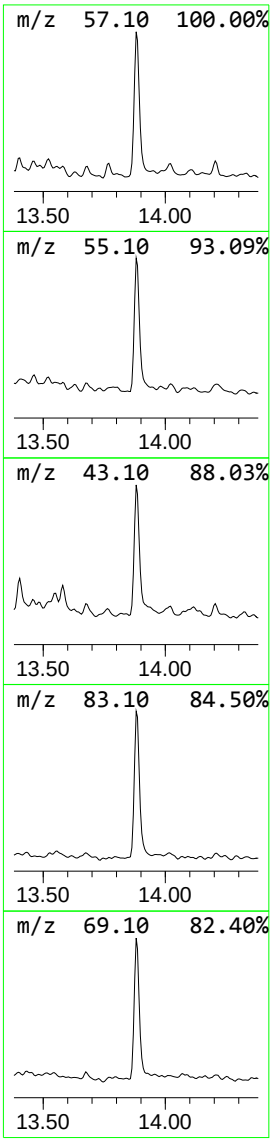
****

Peak Number 15 Cyclopentadecane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.880	3.19 ng	195898	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentadecane	210	C15H30	000295-48-7	96
2	1-Hexacosene	364	C26H52	018835-33-1	94
3	1-Tricosene	322	C23H46	018835-32-0	94
4	Behenic alcohol	326	C22H46O	000661-19-8	94
5	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

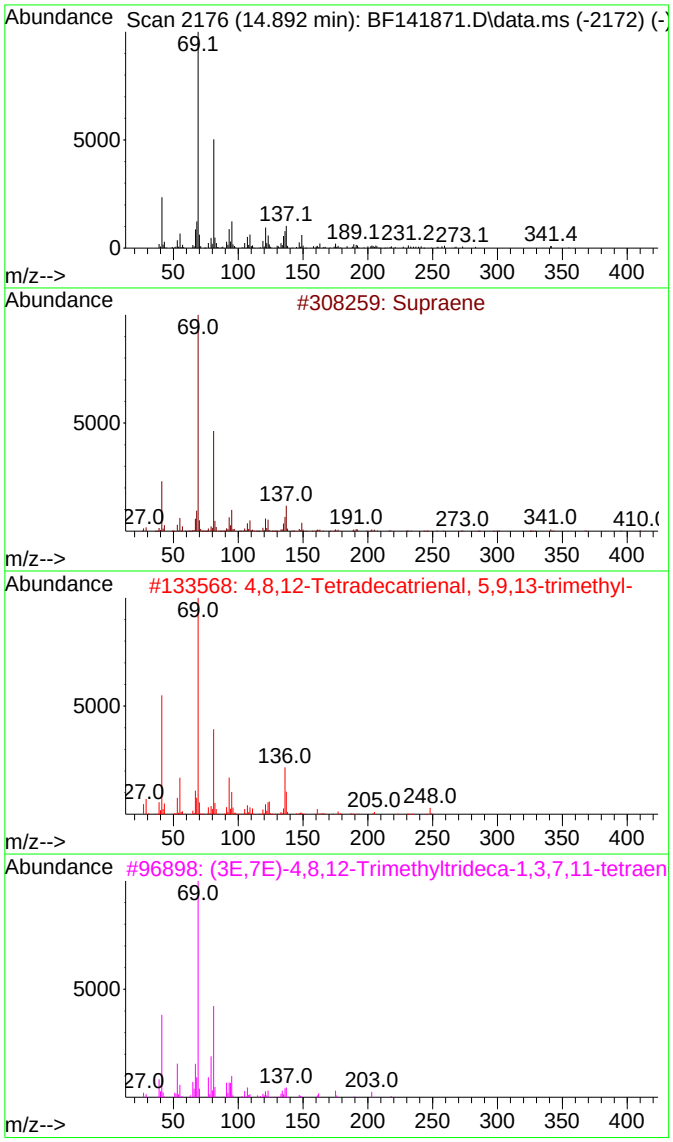
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

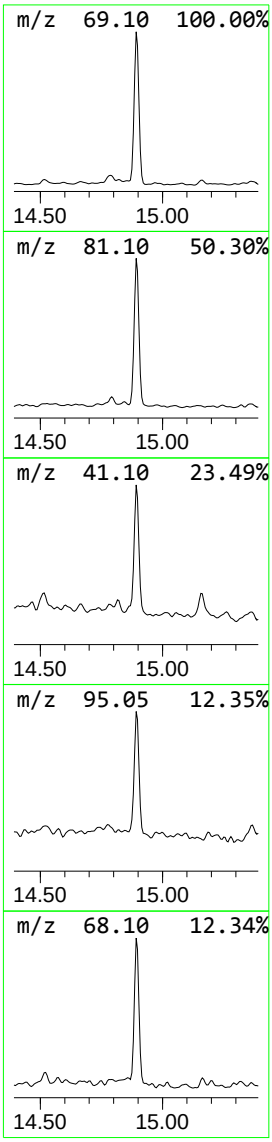
****

Peak Number 16 Supraene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.892	2.23 ng	144783	Perylene-d12	15.510

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Supraene	410	C30H50	007683-64-9	91
2	4,8,12-Tetradecatrienal, 5,9,13-...	248	C17H28O	066408-55-7	64
3	(3E,7E)-4,8,12-Trimethyltrideca-...	218	C16H26	062235-06-7	64
4	7,11-Dimethyldodeca-2,6,10-trien...	208	C14H24O	125529-10-4	64
5	Cyclopentane, bromo-	148	C5H9Br	000137-43-9	49





Sample Results: **BF141871.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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
Butane, 2-metho...	2.163	101.4	ng	4872590	1	6.887	960693	20.0
2-Pentanone, 4-...	5.104	3.7	ng	179102	1	6.887	960693	20.0
1-Hexanol, 2-et...	6.940	9.9	ng	474973	1	6.887	960693	20.0
Hexanoic acid, ...	7.528	4.0	ng	258404	2	8.163	1275630	20.0
Octanoic acid	7.881	2.1	ng	132060	2	8.163	1275630	20.0
Nonanoic acid	8.498	4.0	ng	258256	2	8.163	1275630	20.0
2,2,4-Trimethyl...	10.322	2.8	ng	208266	3	9.916	1465250	20.0
Benzophenone	10.628	11.2	ng	818259	3	9.916	1465250	20.0
Methanone, (1-h...	10.939	2.3	ng	167781	4	11.404	1466660	20.0
Hexanedioic aci...	11.510	5.3	ng	386031	4	11.404	1466660	20.0
n-Hexadecanoic ...	11.928	11.2	ng	818519	4	11.404	1466660	20.0
Butyl citrate	12.639	2.7	ng	195766	4	11.404	1466660	20.0
Octadecanoic acid	12.710	3.2	ng	233284	4	11.404	1466660	20.0
Adipic acid, 2-...	12.804	51.9	ng	3186350	5	14.039	1228360	20.0
Cyclopentadecane	13.880	3.2	ng	195898	5	14.039	1228360	20.0
Supraene	14.892	2.2	ng	144783	6	15.510	1296890	20.0

Raw Data: **BF141870.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-14	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	570 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141870.D	1	03/05/25 08:35	03/06/25 16:00	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	7.00	U	7.00	17.5	ug/L
108-95-2	Phenol	1.60	U	1.60	8.80	ug/L
111-44-4	bis(2-Chloroethyl)ether	2.10	U	2.10	8.80	ug/L
95-57-8	2-Chlorophenol	1.20	U	1.20	8.80	ug/L
95-48-7	2-Methylphenol	2.00	U	2.00	8.80	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	2.40	U	2.40	8.80	ug/L
98-86-2	Acetophenone	1.90	U	1.90	8.80	ug/L
65794-96-9	3+4-Methylphenols	2.00	U	2.00	17.5	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.60	U	2.60	4.40	ug/L
67-72-1	Hexachloroethane	1.80	U	1.80	8.80	ug/L
98-95-3	Nitrobenzene	2.20	U	2.20	8.80	ug/L
78-59-1	Isophorone	2.00	U	2.00	8.80	ug/L
88-75-5	2-Nitrophenol	3.40	U	3.40	8.80	ug/L
105-67-9	2,4-Dimethylphenol	2.60	U	2.60	8.80	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.80	U	1.80	8.80	ug/L
120-83-2	2,4-Dichlorophenol	1.50	U	1.50	8.80	ug/L
91-20-3	Naphthalene	1.80	U	1.80	8.80	ug/L
106-47-8	4-Chloroaniline	2.30	UQ	2.30	8.80	ug/L
87-68-3	Hexachlorobutadiene	2.20	U	2.20	8.80	ug/L
105-60-2	Caprolactam	58.6		2.90	17.5	ug/L
59-50-7	4-Chloro-3-methylphenol	1.50	U	1.50	8.80	ug/L
91-57-6	2-Methylnaphthalene	2.00	U	2.00	8.80	ug/L
77-47-4	Hexachlorocyclopentadiene	8.80	U	8.80	17.5	ug/L
88-06-2	2,4,6-Trichlorophenol	1.60	U	1.60	8.80	ug/L
95-95-4	2,4,5-Trichlorophenol	1.80	U	1.80	8.80	ug/L
92-52-4	1,1-Biphenyl	1.60	U	1.60	8.80	ug/L
91-58-7	2-Chloronaphthalene	1.70	U	1.70	8.80	ug/L
88-74-4	2-Nitroaniline	2.50	U	2.50	8.80	ug/L
131-11-3	Dimethylphthalate	1.60	U	1.60	8.80	ug/L

Raw Data: **BF141870.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-14	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	570 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141870.D	1	03/05/25 08:35	03/06/25 16:00	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.80	U	1.80	8.80	ug/L
606-20-2	2,6-Dinitrotoluene	2.20	U	2.20	8.80	ug/L
99-09-2	3-Nitroaniline	2.40	UQ	2.40	8.80	ug/L
83-32-9	Acenaphthene	1.40	U	1.40	8.80	ug/L
51-28-5	2,4-Dinitrophenol	11.3	U	11.3	17.5	ug/L
100-02-7	4-Nitrophenol	3.50	U	3.50	17.5	ug/L
132-64-9	Dibenzofuran	1.60	U	1.60	8.80	ug/L
121-14-2	2,4-Dinitrotoluene	2.70	U	2.70	8.80	ug/L
84-66-2	Diethylphthalate	1.80	U	1.80	8.80	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.70	U	1.70	8.80	ug/L
86-73-7	Fluorene	1.70	U	1.70	8.80	ug/L
100-01-6	4-Nitroaniline	3.60	U	3.60	8.80	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	5.40	U	5.40	17.5	ug/L
86-30-6	n-Nitrosodiphenylamine	1.60	U	1.60	8.80	ug/L
101-55-3	4-Bromophenyl-phenylether	1.70	U	1.70	8.80	ug/L
118-74-1	Hexachlorobenzene	2.00	U	2.00	8.80	ug/L
1912-24-9	Atrazine	2.20	U	2.20	8.80	ug/L
87-86-5	Pentachlorophenol	3.20	U	3.20	17.5	ug/L
85-01-8	Phenanthrene	1.60	U	1.60	8.80	ug/L
120-12-7	Anthracene	1.90	U	1.90	8.80	ug/L
86-74-8	Carbazole	2.00	U	2.00	8.80	ug/L
84-74-2	Di-n-butylphthalate	2.60	U	2.60	8.80	ug/L
206-44-0	Fluoranthene	2.30	U	2.30	8.80	ug/L
129-00-0	Pyrene	1.90	U	1.90	8.80	ug/L
85-68-7	Butylbenzylphthalate	3.70	U	3.70	8.80	ug/L
91-94-1	3,3-Dichlorobenzidine	2.20	UQ	2.20	17.5	ug/L
56-55-3	Benzo(a)anthracene	1.60	U	1.60	8.80	ug/L
218-01-9	Chrysene	1.50	U	1.50	8.80	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	3.30	U	3.30	8.80	ug/L
117-84-0	Di-n-octyl phthalate	4.40	U	4.40	17.5	ug/L
205-99-2	Benzo(b)fluoranthene	2.00	U	2.00	8.80	ug/L

Raw Data: **BF141870.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-14	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	570 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141870.D	1	03/05/25 08:35	03/06/25 16:00	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	2.10	U	2.10	8.80	ug/L
50-32-8	Benzo(a)pyrene	2.90	U	2.90	8.80	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.80	U	1.80	8.80	ug/L
53-70-3	Dibenzo(a,h)anthracene	2.00	U	2.00	8.80	ug/L
191-24-2	Benzo(g,h,i)perylene	2.10	U	2.10	8.80	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.90	U	1.90	8.80	ug/L
123-91-1	1,4-Dioxane	2.20	U	2.20	8.80	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	1.40	U	1.40	8.80	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	105		15 (10) - 110 (139)	70%	SPK: 150
13127-88-3	Phenol-d6	72.9		15 (10) - 110 (134)	49%	SPK: 150
4165-60-0	Nitrobenzene-d5	134	*	30 (49) - 130 (133)	134%	SPK: 100
321-60-8	2-Fluorobiphenyl	114		30 (52) - 130 (132)	114%	SPK: 100
118-79-6	2,4,6-Tribromophenol	211	*	15 (44) - 110 (137)	140%	SPK: 150
1718-51-0	Terphenyl-d14	108		30 (48) - 130 (125)	108%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	140000	6.887			
1146-65-2	Naphthalene-d8	541000	8.163			
15067-26-2	Acenaphthene-d10	290000	9.916			
1517-22-2	Phenanthrene-d10	493000	11.404			
1719-03-5	Chrysene-d12	387000	14.039			
1520-96-3	Perylene-d12	390000	15.509			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	200	J		2.17	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	14.1	A		5.10	ug/L
000111-76-2	Ethanol, 2-butoxy-	8.50	J		5.83	ug/L
020324-32-7	2-Propanol, 1-(2-methoxy-1-methyle	34.4	J		6.69	ug/L
010143-32-5	2-Propanol, 1-(2-ethoxypropoxy)-	30.6	J		6.72	ug/L
013429-07-7	2-Propanol, 1-(2-methoxypropoxy)-	48.8	J		6.81	ug/L
000104-76-7	1-Hexanol, 2-ethyl-	6.60	J		6.94	ug/L

Raw Data: **BF141870.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-14	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	570 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141870.D	1	03/05/25 08:35	03/06/25 16:00	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000149-57-5	Hexanoic acid, 2-ethyl-	4.60	J		7.52	ug/L
65-85-0	Benzoic acid	15.8	J		7.90	ug/L
006846-50-0	2,2,4-Trimethyl-1,3-pentanediol di	5.40	J		10.3	ug/L
000119-61-9	Benzophenone	15.5	J		10.6	ug/L
000947-19-3	Methanone, (1-hydroxycyclohexyl)ph	4.10	J		10.9	ug/L
000057-10-3	n-Hexadecanoic acid	17.6	J		11.9	ug/L
000077-94-1	Butyl citrate	5.00	J		12.6	ug/L
000057-11-4	Octadecanoic acid	4.80	J		12.7	ug/L
1000324-32-5	Adipic acid, butyl non-5-yn-3-yl ester	73.8	J		12.8	ug/L
015594-90-8	1-Heneicosanol	5.10	J		13.9	ug/L
007683-64-9	Supraene	5.10	J		14.9	ug/L

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\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Quant Time: Mar 06 16:30:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

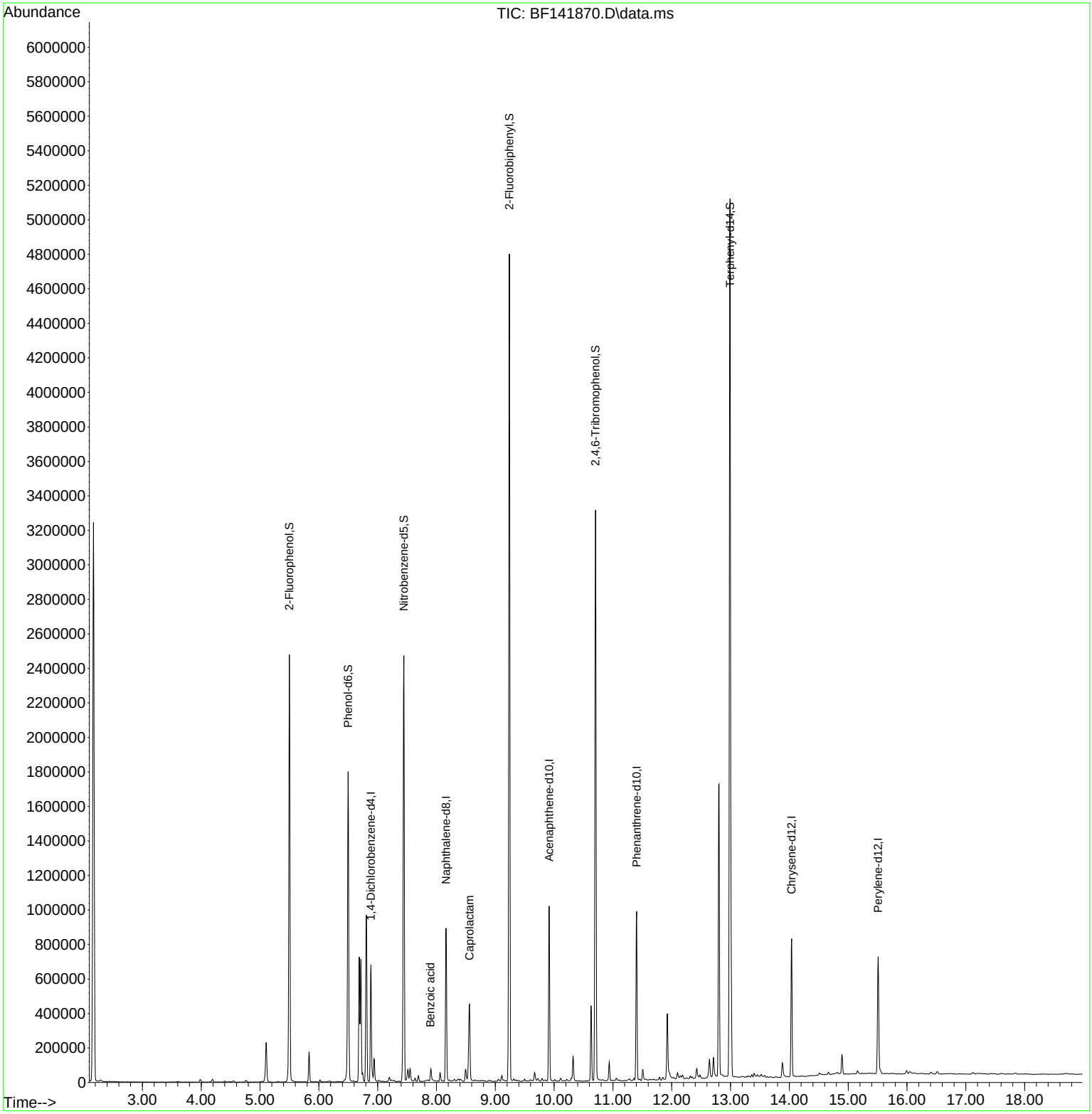
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	140013	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	541385	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	290279	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	493097	20.000	ng	0.00
76) Chrysene-d12	14.039	240	386724	20.000	ng	-0.01
86) Perylene-d12	15.509	264	390388	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	916932	104.585	ng	0.00
7) Phenol-d6	6.498	99	832242	72.931	ng	-0.01
23) Nitrobenzene-d5	7.445	82	1138168	134.381	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	573671	210.507	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	2059546	113.765	ng	0.00
79) Terphenyl-d14	12.992	244	2570569	107.544	ng	0.00
Target Compounds						Qvalue
32) Benzoic acid	7.898	122	8588	8.983	ng	95
35) Caprolactam	8.563	113	79297	33.405	ng	# 86

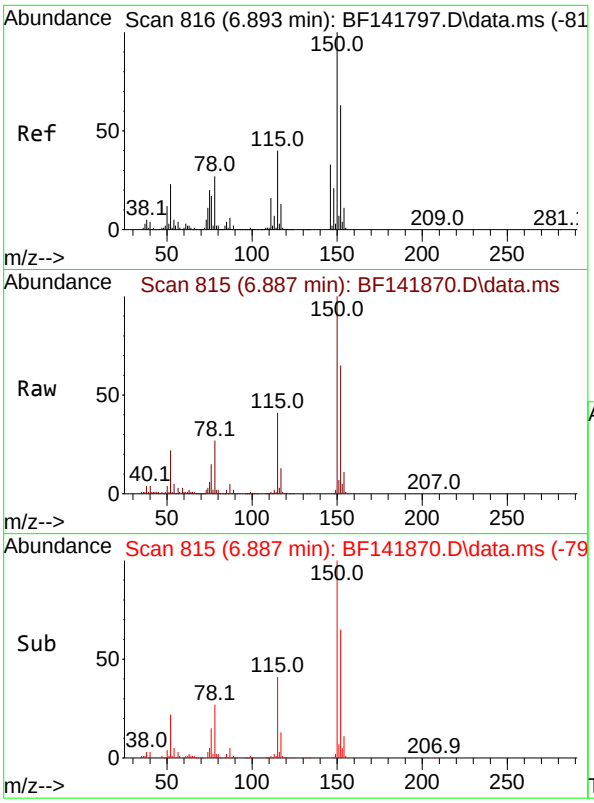
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Quant Time: Mar 06 16:30:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



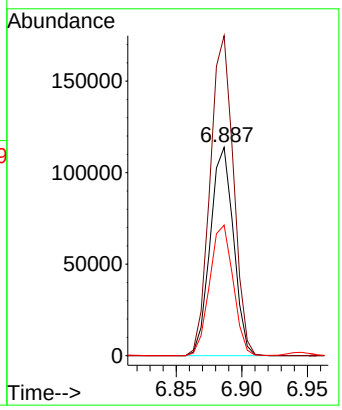


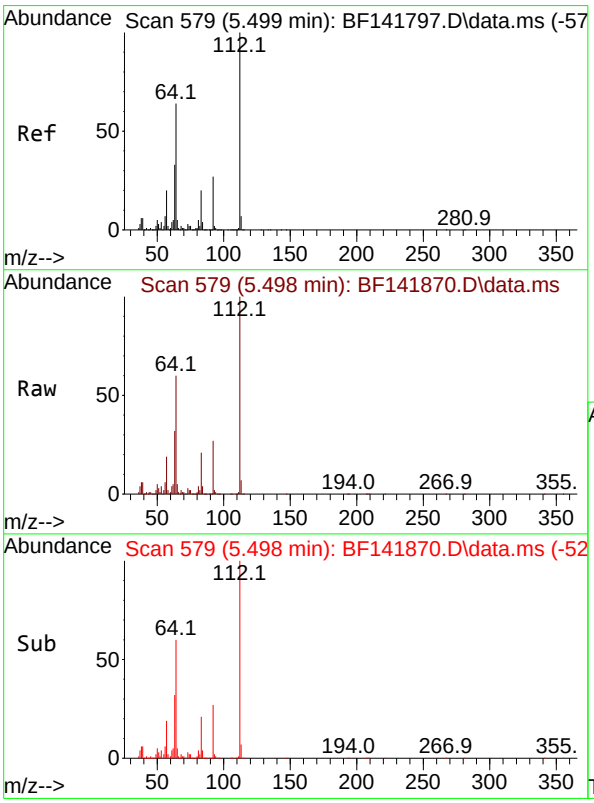
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Tgt Ion:152 Resp: 140013

Ion	Ratio	Lower	Upper
152	100		
150	153.6	127.5	191.3
115	62.7	51.4	77.2

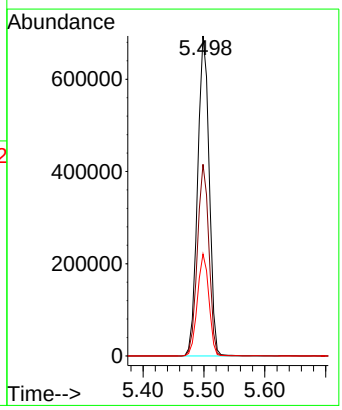


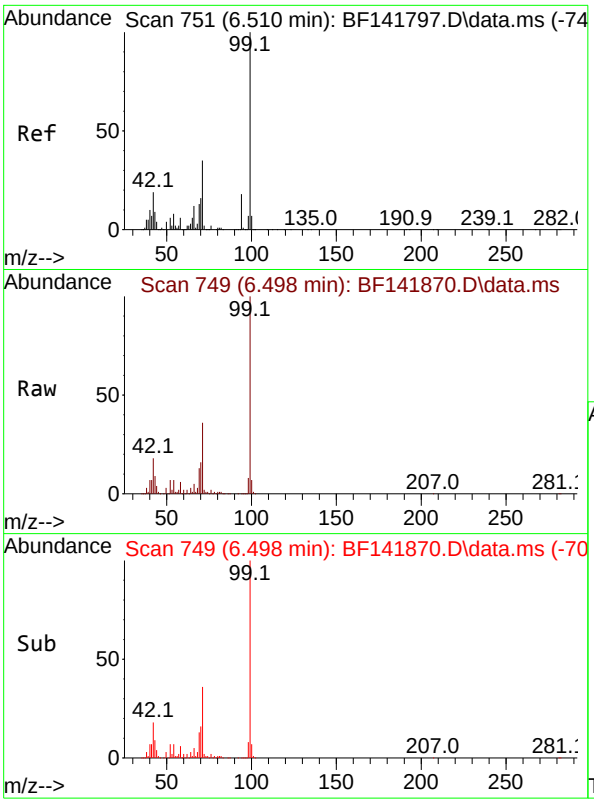


#5
2-Fluorophenol
Concen: 104.585 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Tgt Ion:112 Resp: 916932

Ion	Ratio	Lower	Upper
112	100		
64	59.9	51.3	76.9
63	31.8	26.2	39.4



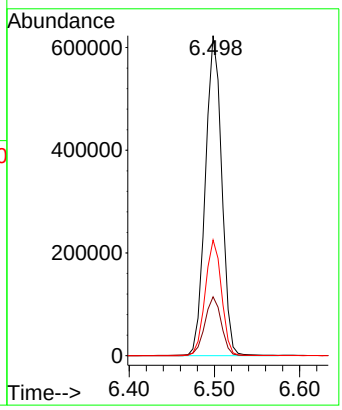


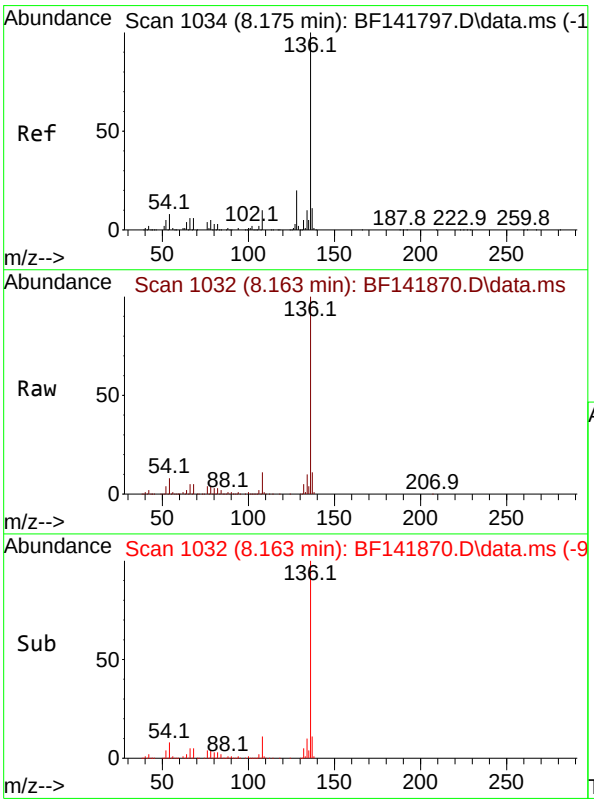
#7
Phenol-d6
Concen: 72.931 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Tgt Ion: 99 Resp: 832242

Ion	Ratio	Lower	Upper
99	100		
42	18.4	15.2	22.8
71	36.2	28.2	42.2

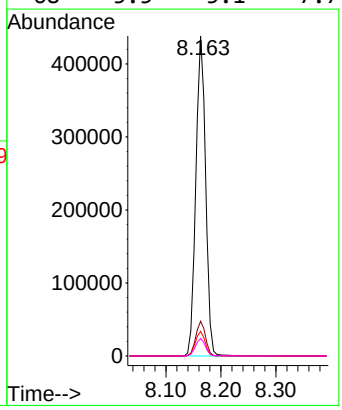


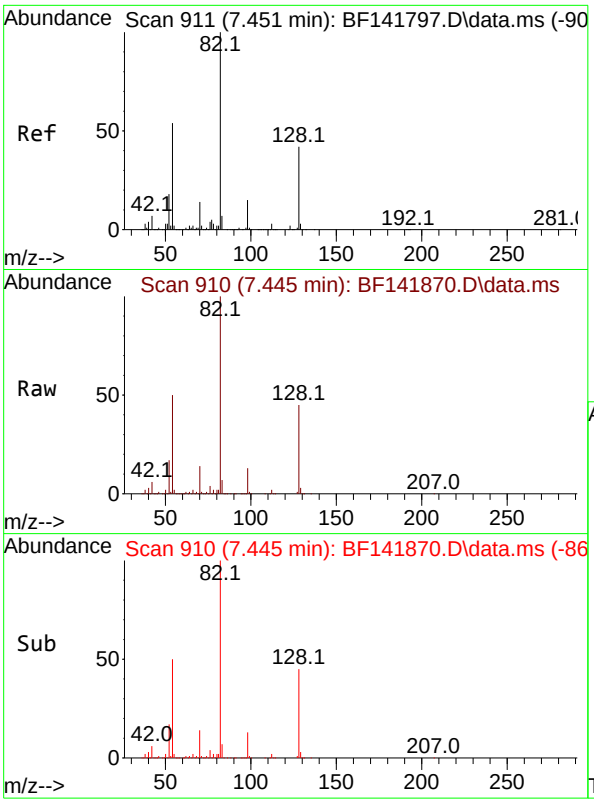


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Tgt Ion:136 Resp: 541385

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	7.7	6.9	10.3
68	5.5	5.1	7.7



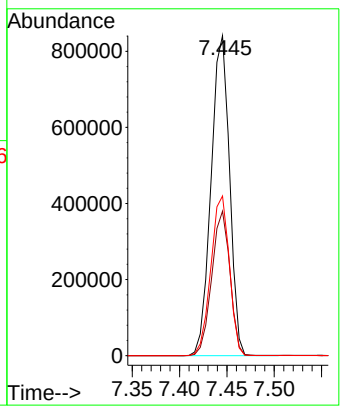


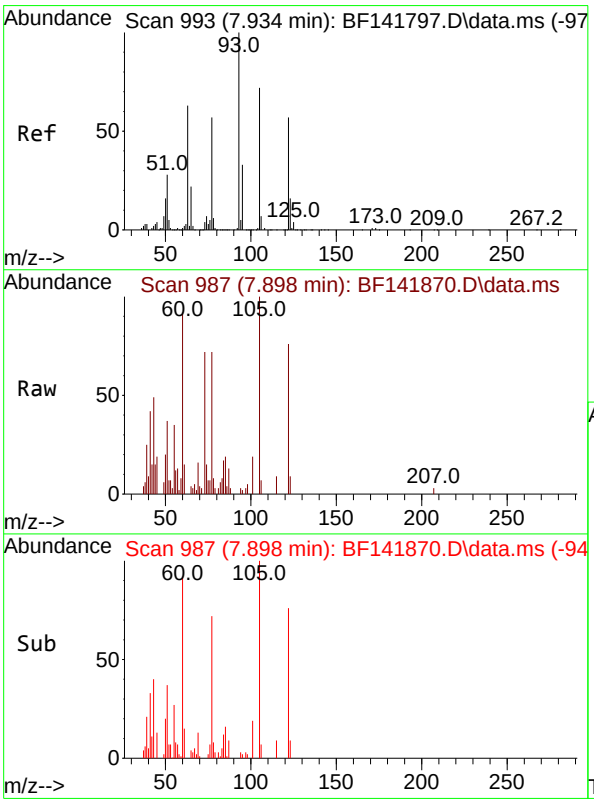
#23
Nitrobenzene-d5
Concen: 134.381 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Tgt Ion: 82 Resp: 1138168

Ion	Ratio	Lower	Upper
82	100		
128	45.1	33.5	50.3
54	49.9	42.7	64.1

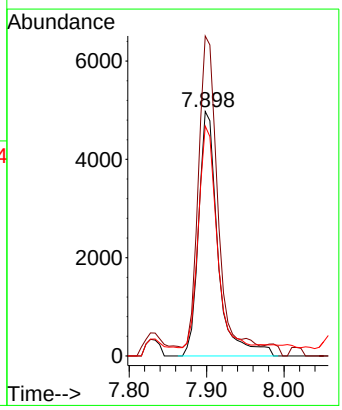


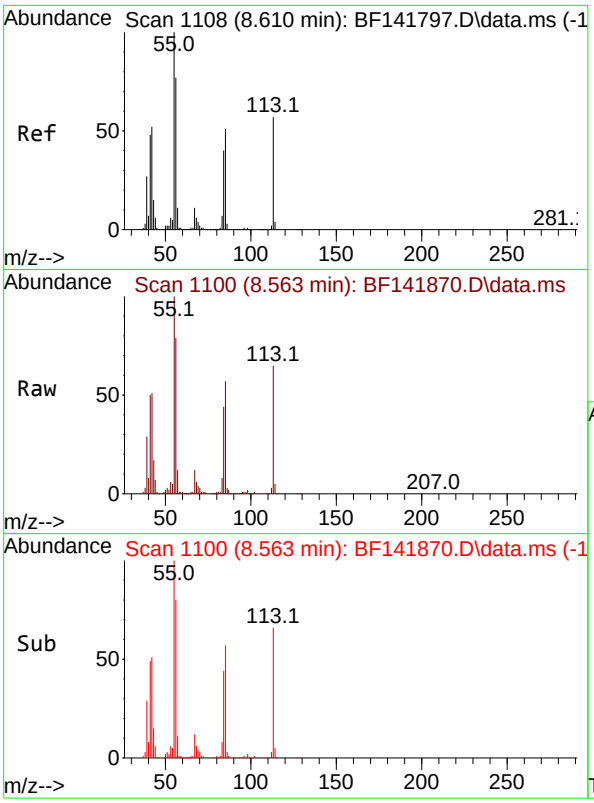


#32
Benzoic acid
Concen: 8.983 ng
RT: 7.898 min Scan# 987
Delta R.T. -0.036 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Tgt Ion:122 Resp: 8588

Ion	Ratio	Lower	Upper
122	100		
105	130.8	105.8	145.8
77	94.0	79.9	119.9



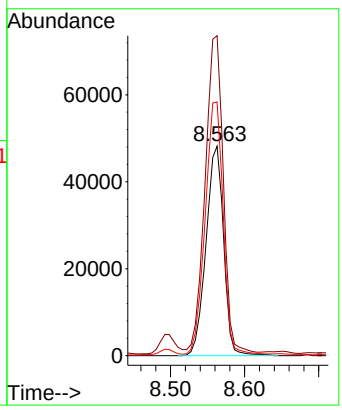


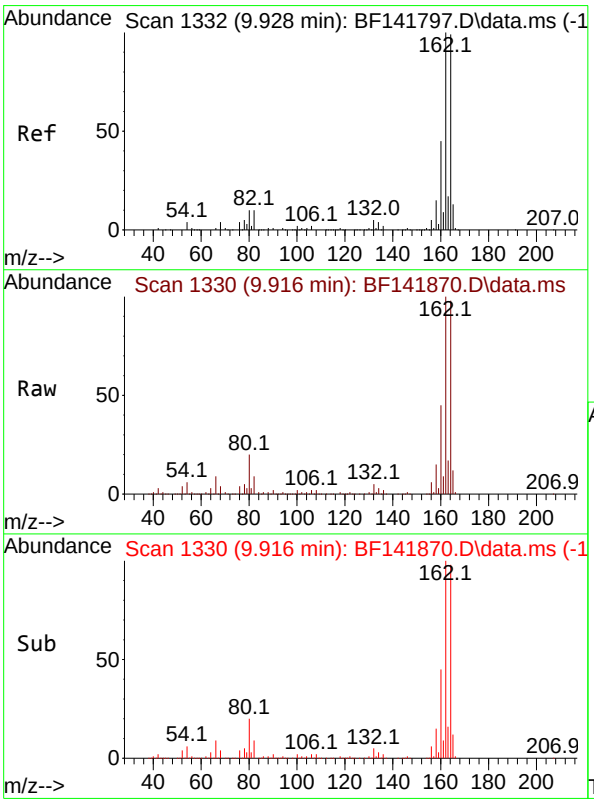
#35
Caprolactam
Concen: 33.405 ng
RT: 8.563 min Scan# 1
Delta R.T. -0.047 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Tgt Ion:113 Resp: 79297

Ion	Ratio	Lower	Upper
113	100		
55	152.8	155.6	195.6#
56	121.2	114.6	154.6

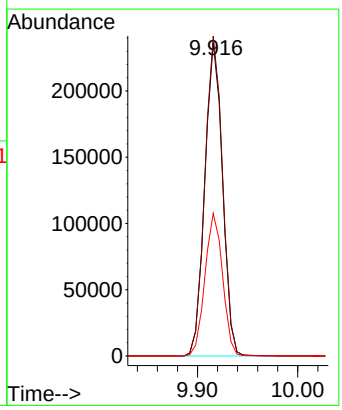


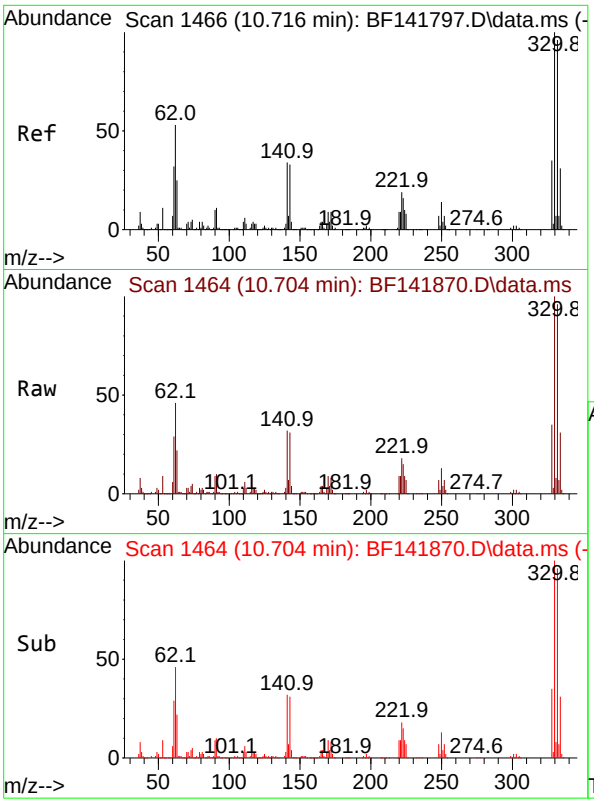


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Tgt Ion:164 Resp: 290279

Ion	Ratio	Lower	Upper
164	100		
162	102.1	80.6	120.8
160	45.5	36.3	54.5



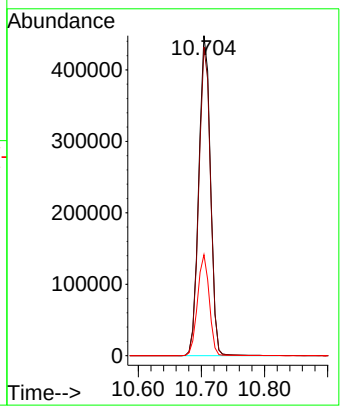


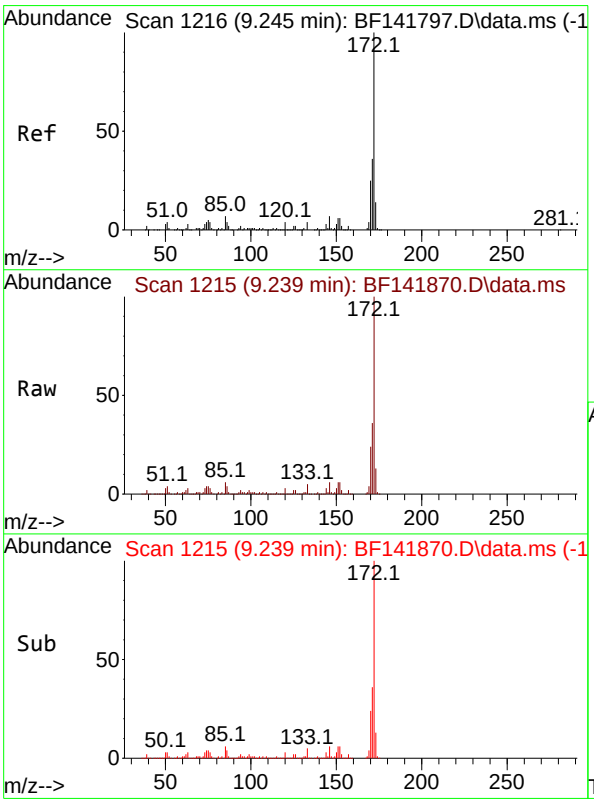
#42
2,4,6-Tribromophenol
Concen: 210.507 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Tgt Ion:330 Resp: 573671

Ion	Ratio	Lower	Upper
330	100		
332	96.6	76.6	115.0
141	31.7	29.0	43.4

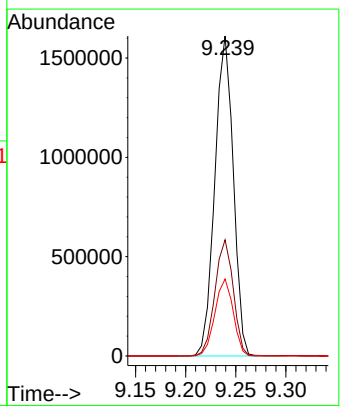


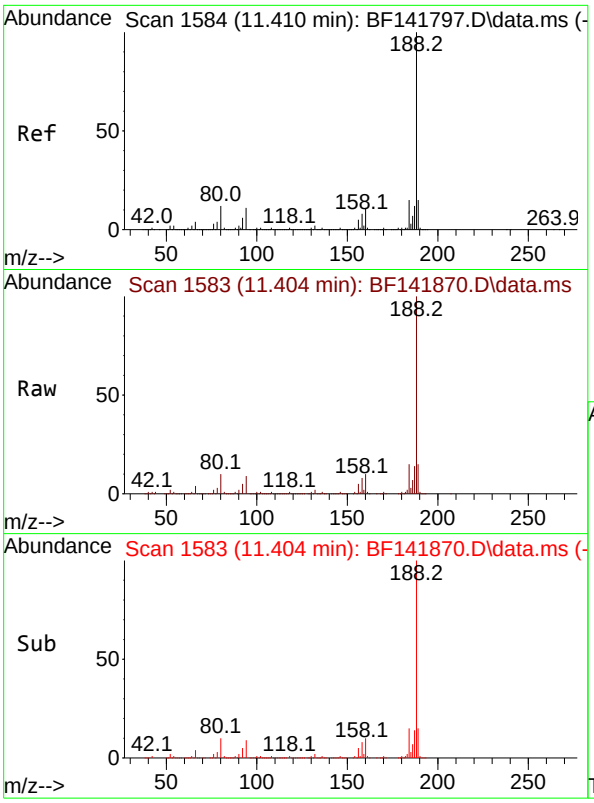


#45
2-Fluorobiphenyl
Concen: 113.765 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Tgt Ion:172 Resp: 2059546

Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.2	43.8
170	24.0	19.7	29.5



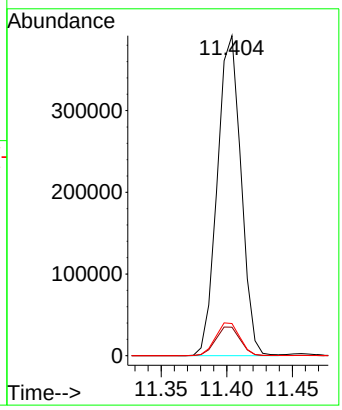


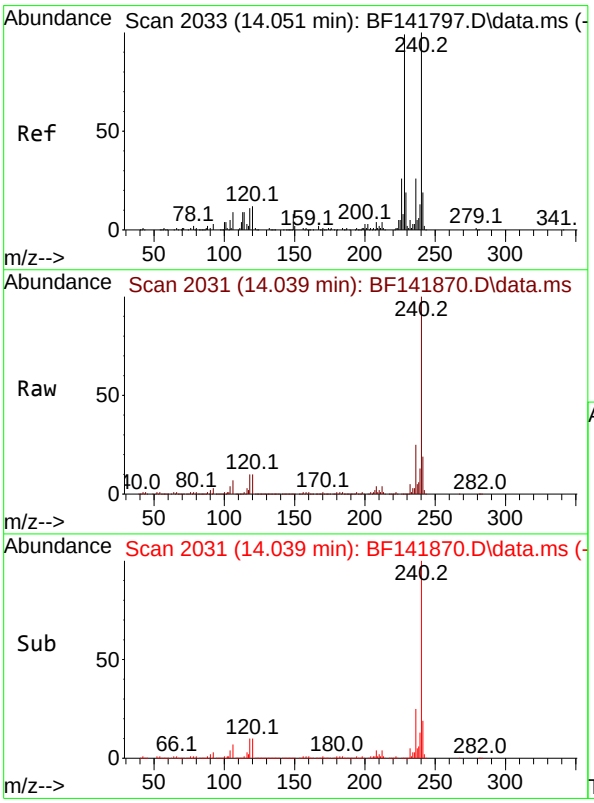
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Tgt Ion:188 Resp: 493097

Ion	Ratio	Lower	Upper
188	100		
94	8.9	8.9	13.3
80	10.1	9.7	14.5

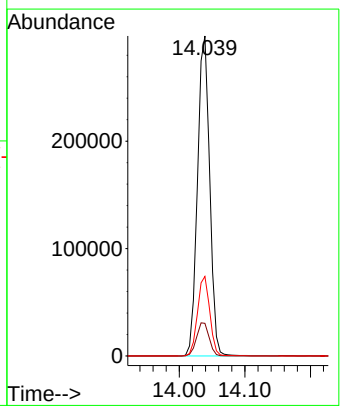


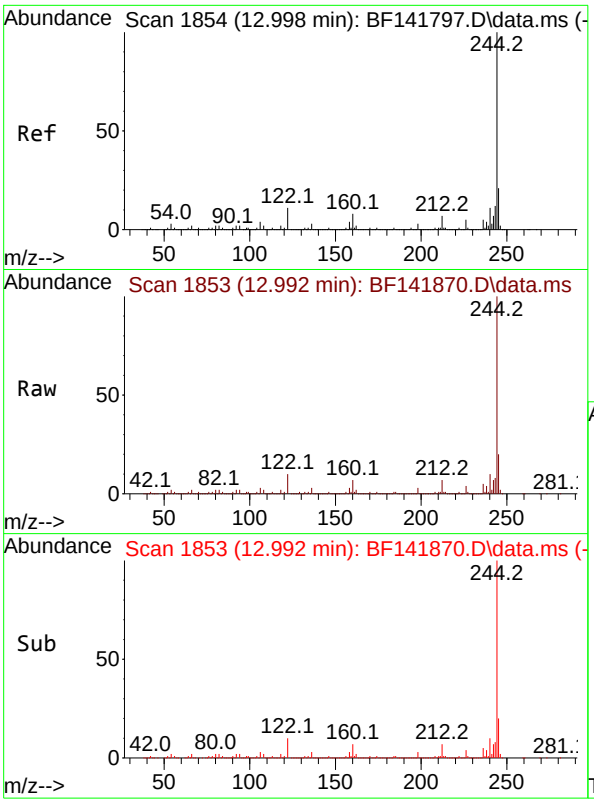


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Tgt Ion:240 Resp: 386724

Ion	Ratio	Lower	Upper
240	100		
120	10.2	9.7	14.5
236	24.8	21.0	31.4



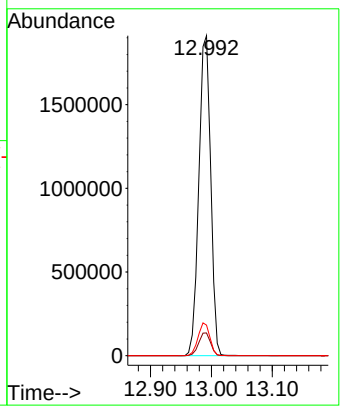


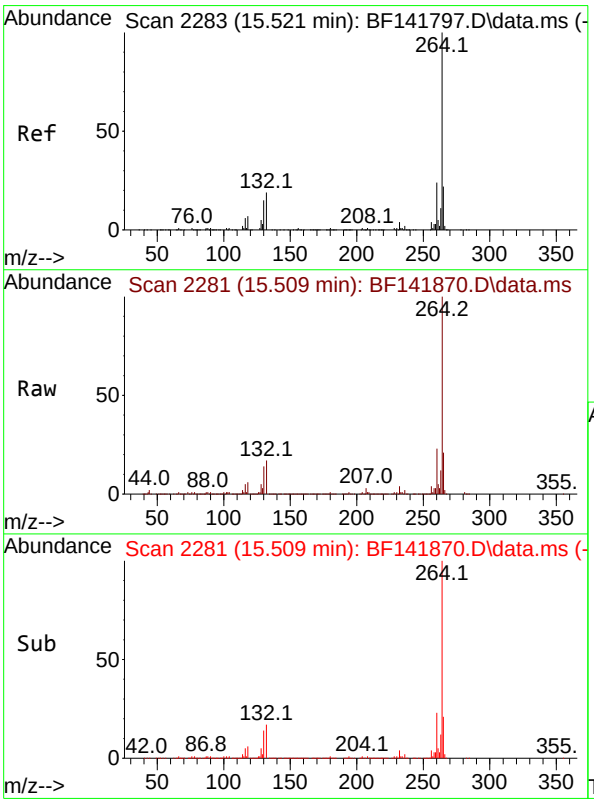
#79
Terphenyl-d14
Concen: 107.544 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Tgt Ion:244 Resp: 2570569

Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	9.5	9.0	13.6

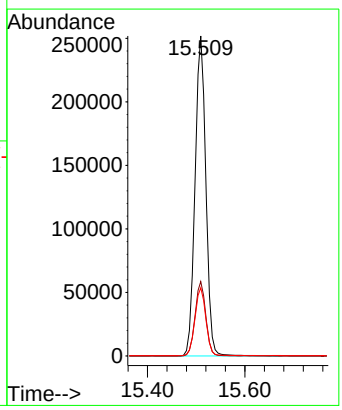




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Tgt Ion:264 Resp: 390388

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.9	28.3
265	21.3	17.4	26.0



Sample Results: **BF141870.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

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-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141870.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.169	5	13	28	rVB	3238359	5245557	68.11%	10.773%
2	5.104	503	512	524	rVB	229204	367973	4.78%	0.756%
3	5.498	564	579	599	rBV	2477921	3340148	43.37%	6.860%
4	5.834	631	636	645	rBV	174814	220234	2.86%	0.452%
5	6.498	740	749	761	rVB	1794335	2504758	32.52%	5.144%
6	6.687	776	781	783	rBV	722418	895975	11.63%	1.840%
7	6.716	783	786	790	rVB	675085	797169	10.35%	1.637%
8	6.810	796	802	807	rBV	964489	1272314	16.52%	2.613%
9	6.887	810	815	821	rVV	676180	913939	11.87%	1.877%
10	6.939	821	824	834	rVB	129631	171031	2.22%	0.351%
11	7.445	899	910	915	rBV	2469622	3373892	43.81%	6.929%
12	7.516	915	922	925	rVV	69923	121312	1.58%	0.249%
13	7.551	925	928	938	rVB	71914	104484	1.36%	0.215%
14	7.904	983	988	1001	rVB3	71001	114062	1.48%	0.234%
15	8.163	1027	1032	1040	rBV	886661	1100759	14.29%	2.261%
16	8.498	1083	1089	1093	rBV3	69024	109828	1.43%	0.226%
17	8.563	1093	1100	1112	rVB	442905	755935	9.81%	1.552%
18	9.239	1209	1215	1220	rBV	4792855	6136608	79.68%	12.603%
19	9.916	1325	1330	1335	rBV	1012498	1244593	16.16%	2.556%
20	10.322	1395	1399	1406	rVB	145606	191841	2.49%	0.394%
21	10.627	1446	1451	1458	rVB	434320	549239	7.13%	1.128%
22	10.704	1458	1464	1469	rBV	3305527	4237823	55.02%	8.703%
23	10.939	1494	1504	1508	rBV	108861	144176	1.87%	0.296%
24	11.404	1578	1583	1588	rVB	975691	1232763	16.01%	2.532%
25	11.510	1596	1601	1608	rBV	65936	106595	1.38%	0.219%
26	11.927	1666	1672	1686	rBV2	378509	618168	8.03%	1.270%
27	12.427	1752	1757	1763	rBV	55497	91026	1.18%	0.187%
28	12.639	1786	1793	1799	rBV	106238	174343	2.26%	0.358%
29	12.710	1800	1805	1815	rVV	111504	169266	2.20%	0.348%
30	12.804	1815	1821	1826	rBV	1692567	2229397	28.95%	4.579%
31	12.992	1846	1853	1864	rVB	5087829	7701943	100.00%	15.818%
32	13.880	1999	2004	2020	rBV	83521	155488	2.02%	0.319%
33	14.039	2025	2031	2038	rBV	799603	1059705	13.76%	2.176%
34	14.892	2172	2176	2182	rVB	110799	157719	2.05%	0.324%
35	15.509	2275	2281	2293	rVB	678106	1081955	14.05%	2.222%

Sample Results: **BF141870.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

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-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Sum of corrected areas: 48692018

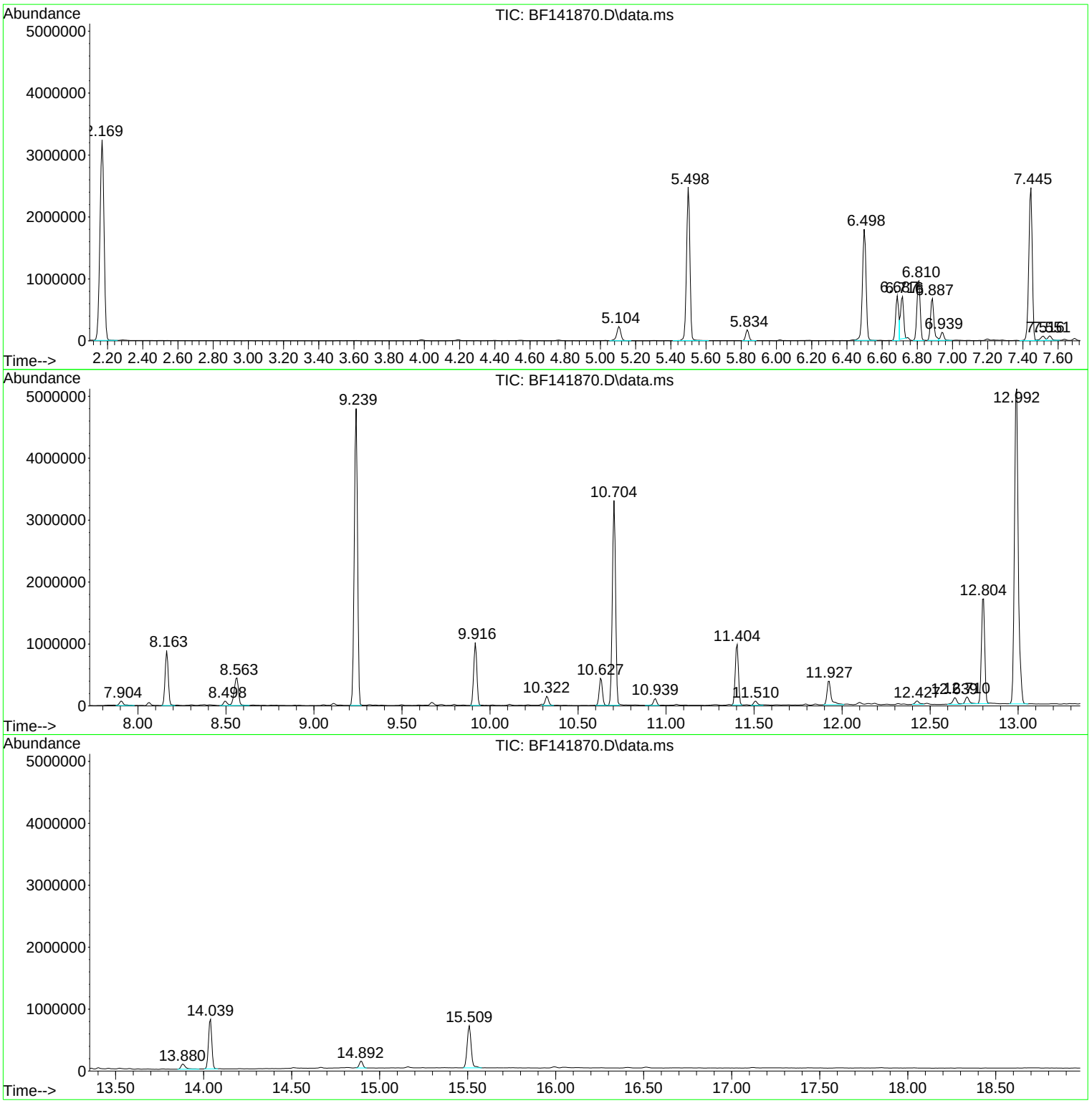
Sample Results: **BF141870.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
ENV-104-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

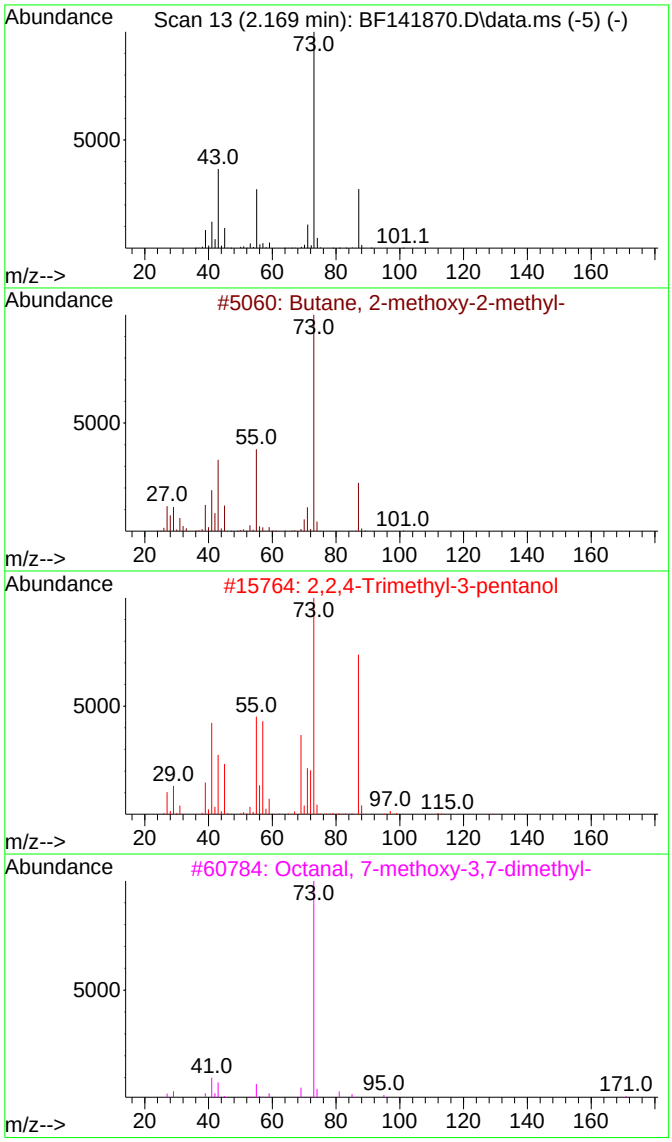
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

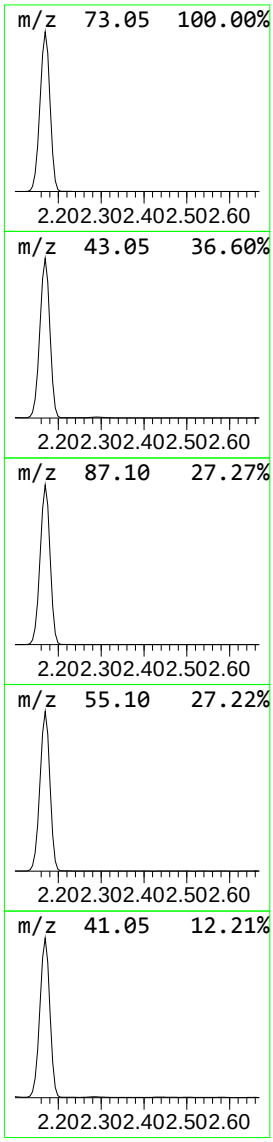
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.169	114.79 ng	5245560	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	23
4	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17





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Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
ENV-104-GW01

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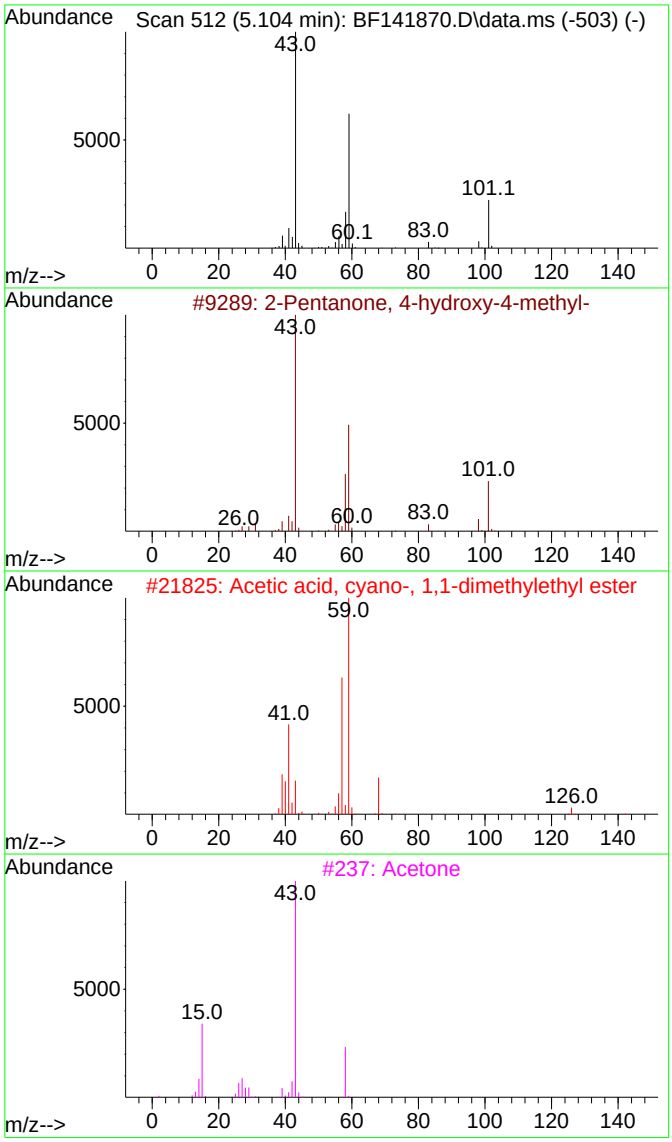
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

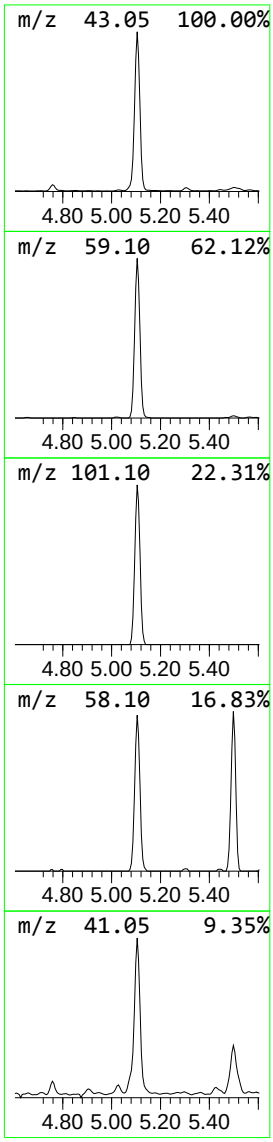
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.104	8.05 ng	367973	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
3	Acetone	58	C3H6O	000067-64-1	10
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5	5-Hexen-2-one	98	C6H10O	000109-49-9	9





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Misc :
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Instrument :
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ClientSampleId :
ENV-104-GW01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

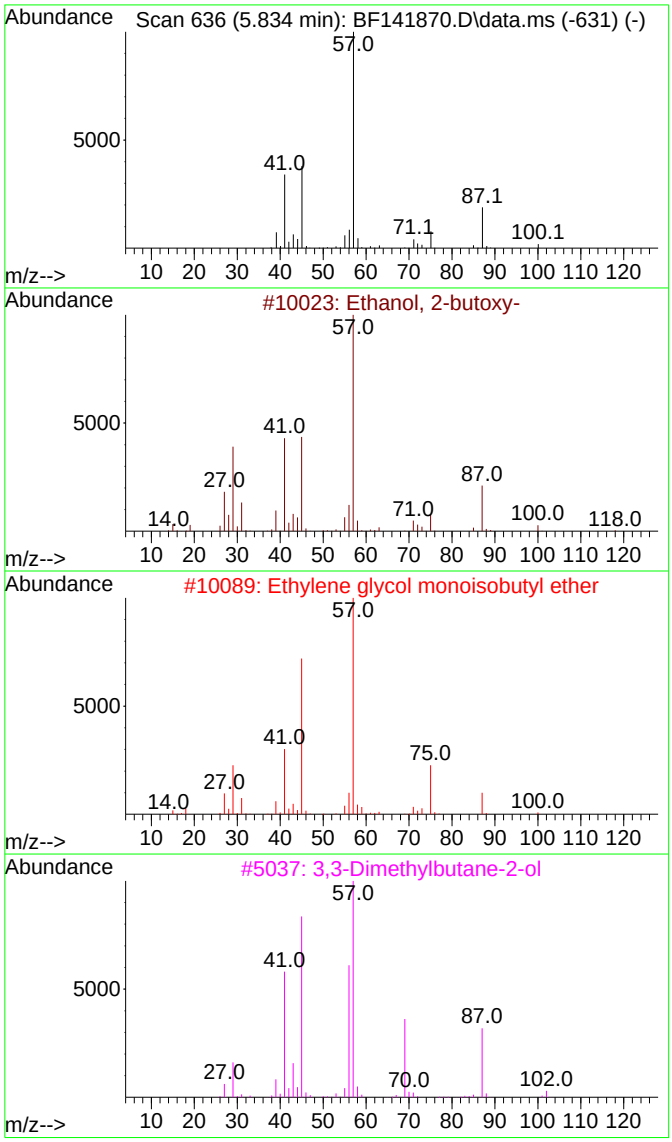
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

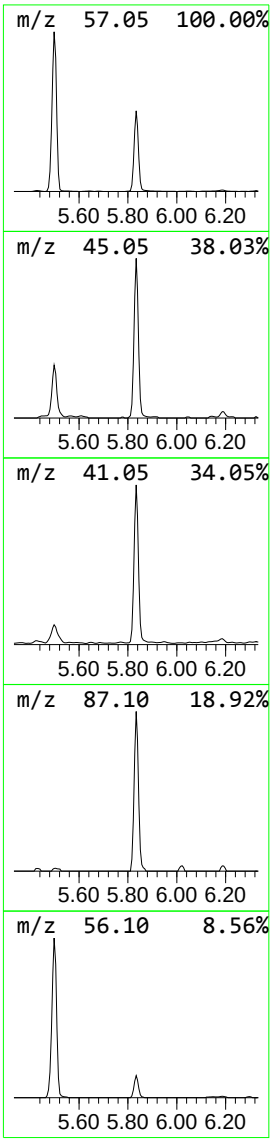
****

Peak Number 3 Ethanol, 2-butoxy- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.834	4.82 ng	220234	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-butoxy-	118	C6H14O2	000111-76-2	83
2	Ethylene glycol monoisobutyl ether	118	C6H14O2	004439-24-1	42
3	3,3-Dimethylbutane-2-ol	102	C6H14O	000464-07-3	33
4	n-Butyl ether	130	C8H18O	000142-96-1	32
5	Propanoic acid, 2-methylpropyl e...	130	C7H14O2	000540-42-1	25





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Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

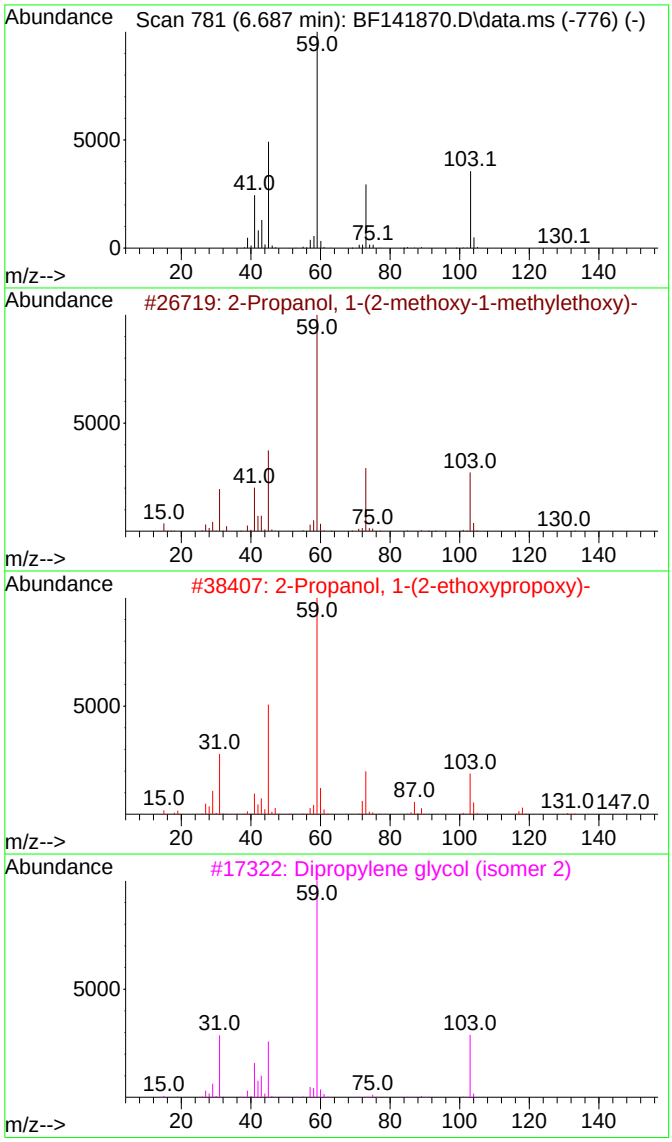
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

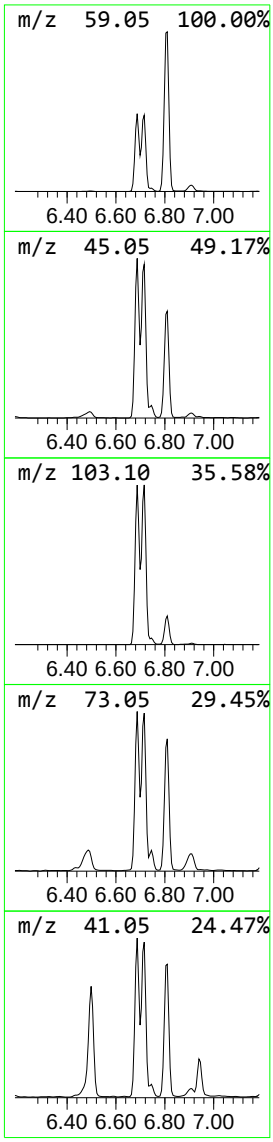
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 2-Propanol, 1-(2-methoxy-1-... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.687	19.61 ng	895975	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-(2-methoxy-1-methy...	148	C7H16O3	020324-32-7	83
2	2-Propanol, 1-(2-ethoxypropoxy)-	162	C8H18O3	010143-32-5	64
3	Dipropylene glycol (isomer 2)	134	C6H14O3	1000506-25-4	50
4	1-Propanol, 2,2'-oxybis-	134	C6H14O3	000108-61-2	50
5	Dipropylene glycol (isomer 3)	134	C6H14O3	1000506-25-5	50





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Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

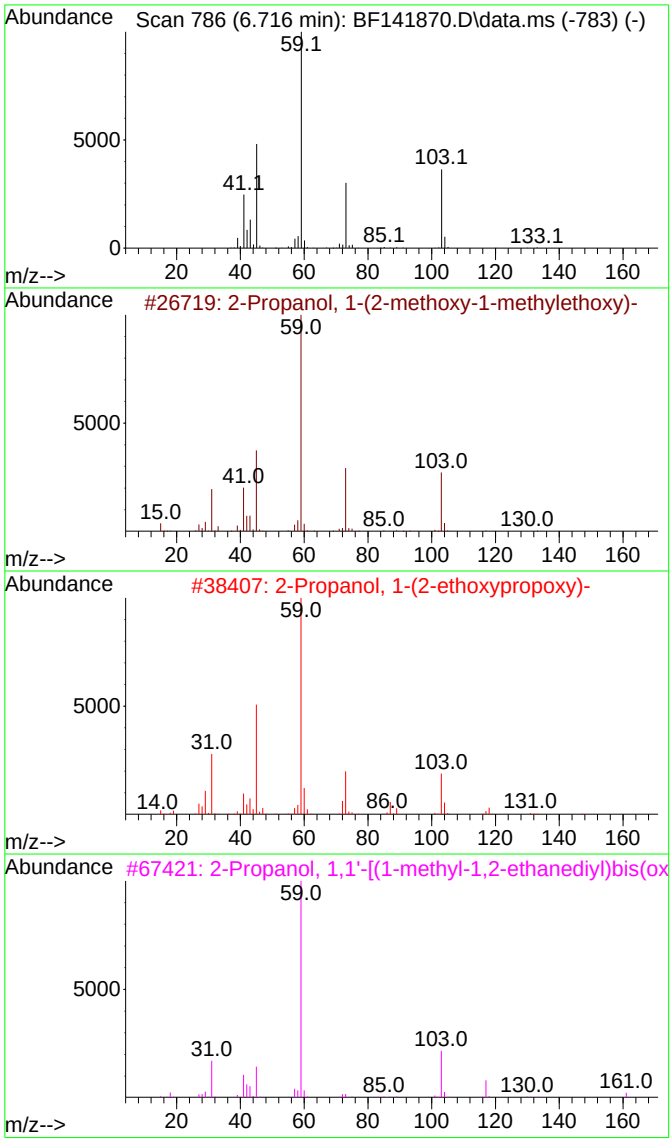
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

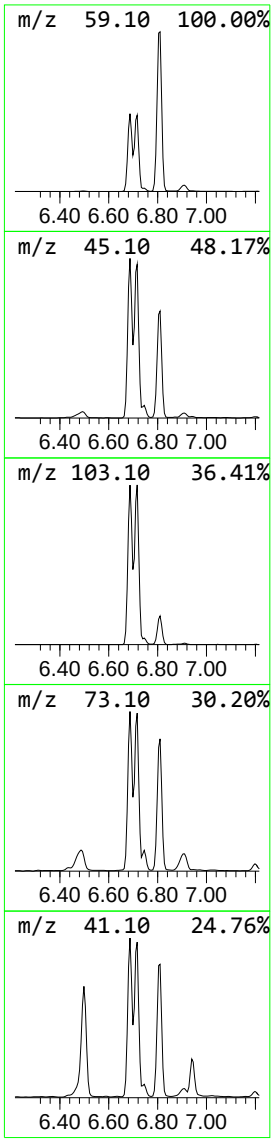
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 2-Propanol, 1-(2-ethoxyprop... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.716	17.44 ng	797169	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-(2-methoxy-1-methy...	148	C7H16O3	020324-32-7	83
2	2-Propanol, 1-(2-ethoxypropoxy)-	162	C8H18O3	010143-32-5	56
3	2-Propanol, 1,1'-[(1-methyl-1,2-...	192	C9H20O4	001638-16-0	53
4	Dipropylene glycol (isomer 2)	134	C6H14O3	1000506-25-4	50
5	1-Propanol, 2,2'-oxybis-	134	C6H14O3	000108-61-2	50





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Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

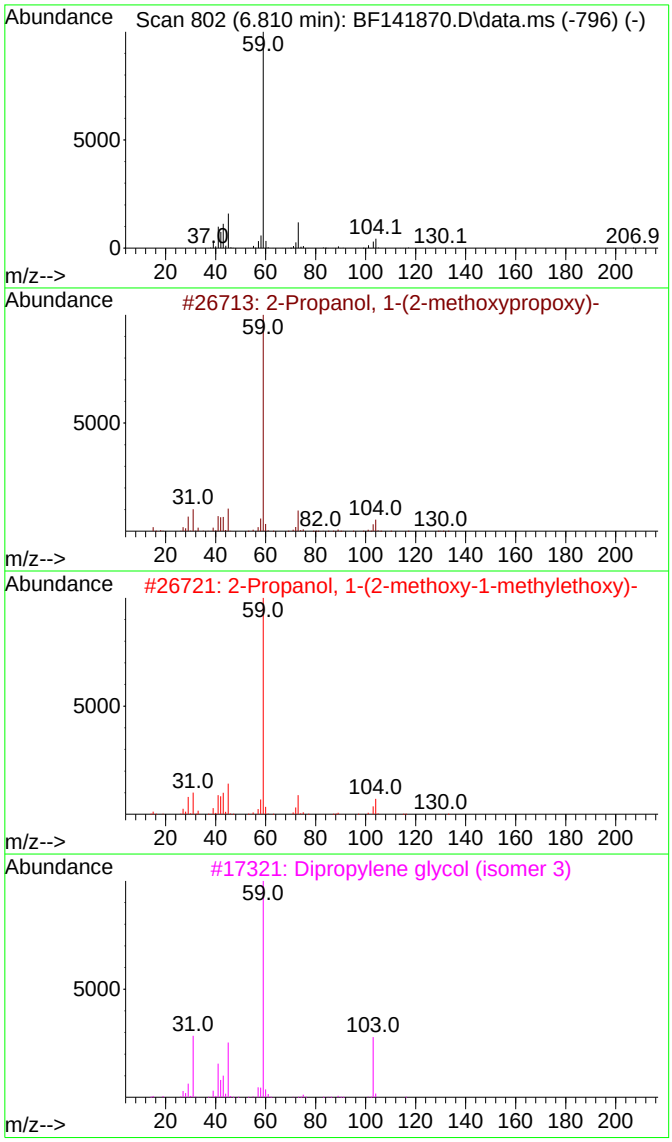
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

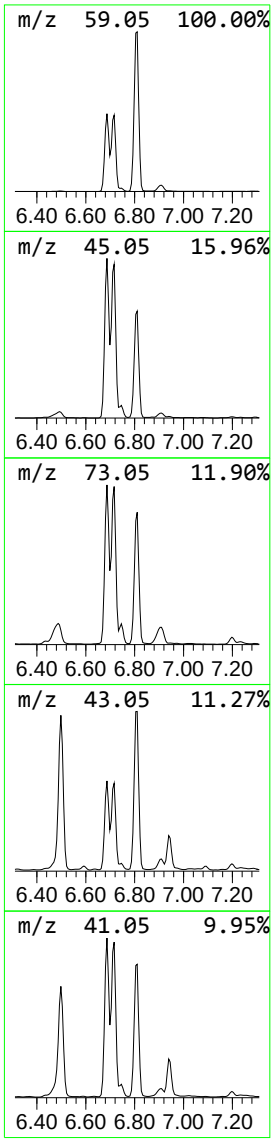
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 2-Propanol, 1-(2-methoxypro... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.810	27.84 ng	1272310	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-(2-methoxypropoxy)-	148	C7H16O3	013429-07-7	83
2	2-Propanol, 1-(2-methoxy-1-methy...	148	C7H16O3	020324-32-7	83
3	Dipropylene glycol (isomer 3)	134	C6H14O3	1000506-25-5	64
4	Dipropylene glycol (isomer 2)	134	C6H14O3	1000506-25-4	64
5	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	64





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Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

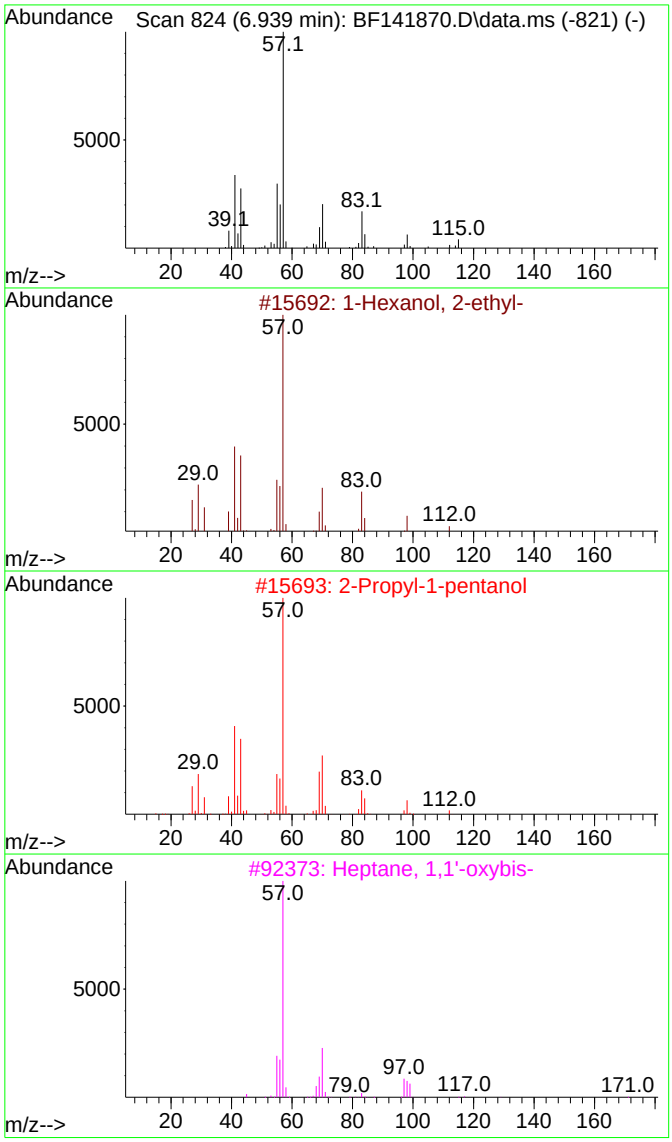
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

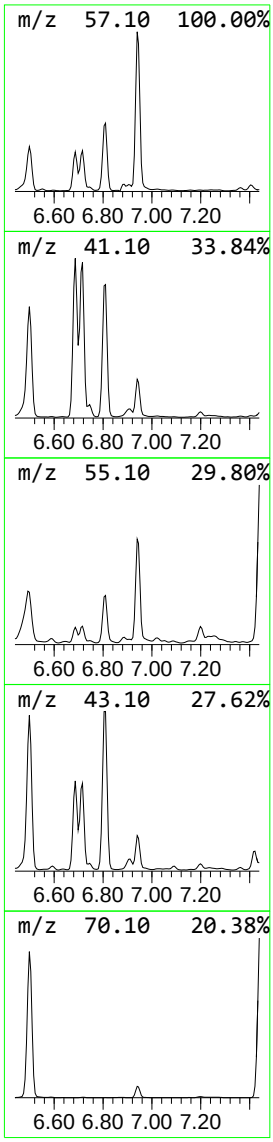
****

Peak Number 7 1-Hexanol, 2-ethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.939	3.74 ng	171031	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	78
2	2-Propyl-1-pentanol	130	C8H18O	058175-57-8	53
3	Heptane, 1,1'-oxybis-	214	C14H30O	000629-64-1	45
4	1-Pentanol, 2-ethyl-4-methyl-	130	C8H18O	000106-67-2	40
5	1-Isobutoxy-2-ethylhexane	186	C12H26O	1000139-90-3	39





Sample Results: **BF141870.D**

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Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

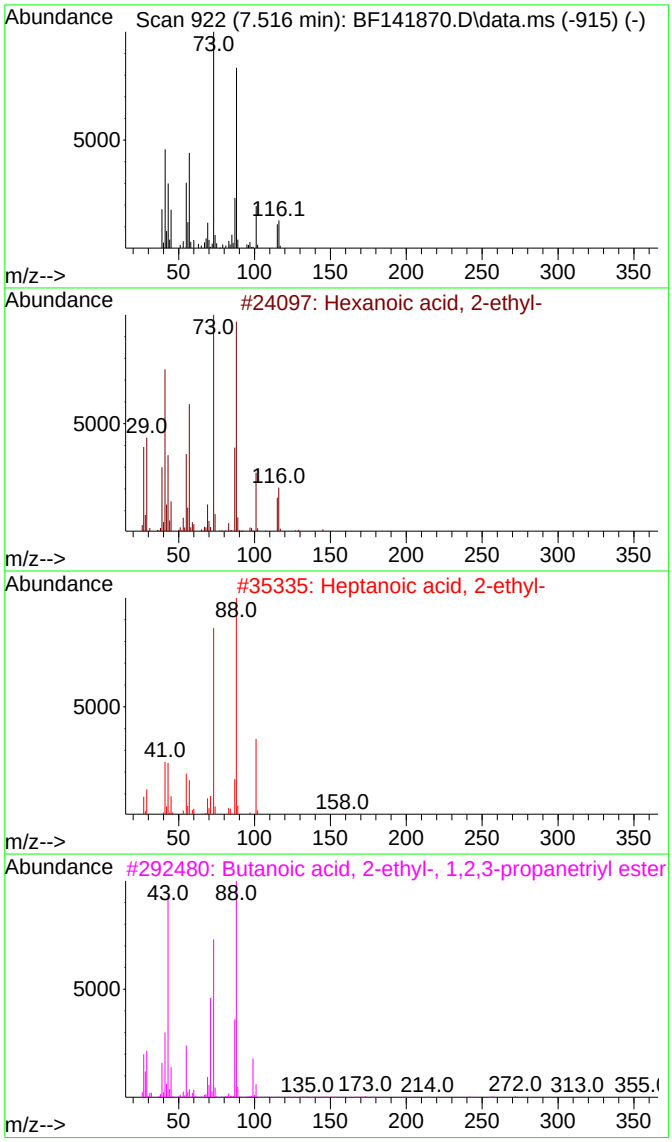
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

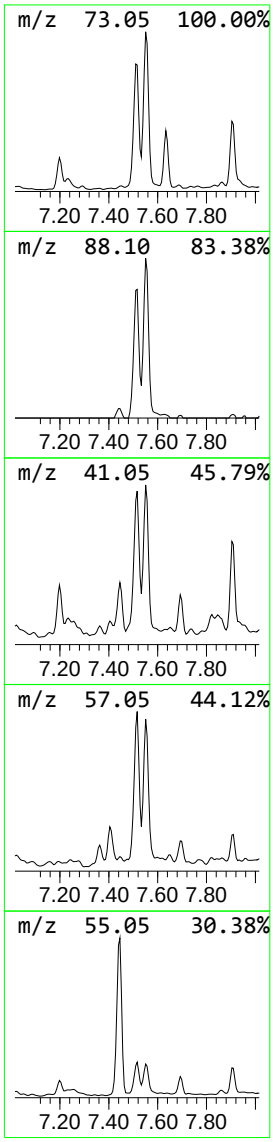
****

Peak Number 8 Hexanoic acid, 2-ethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.516	2.65 ng	121312	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	86
2	Heptanoic acid, 2-ethyl-	158	C9H18O2	003274-29-1	53
3	Butanoic acid, 2-ethyl-, 1,2,3-p...	386	C21H38O6	056554-54-2	53
4	2-Ethyl-4-methylpentanoic acid	144	C8H16O2	000108-81-6	50
5	3-Dodecyloxypropanoic acid, Me d...	272	C16H32O3	1000497-89-8	42





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Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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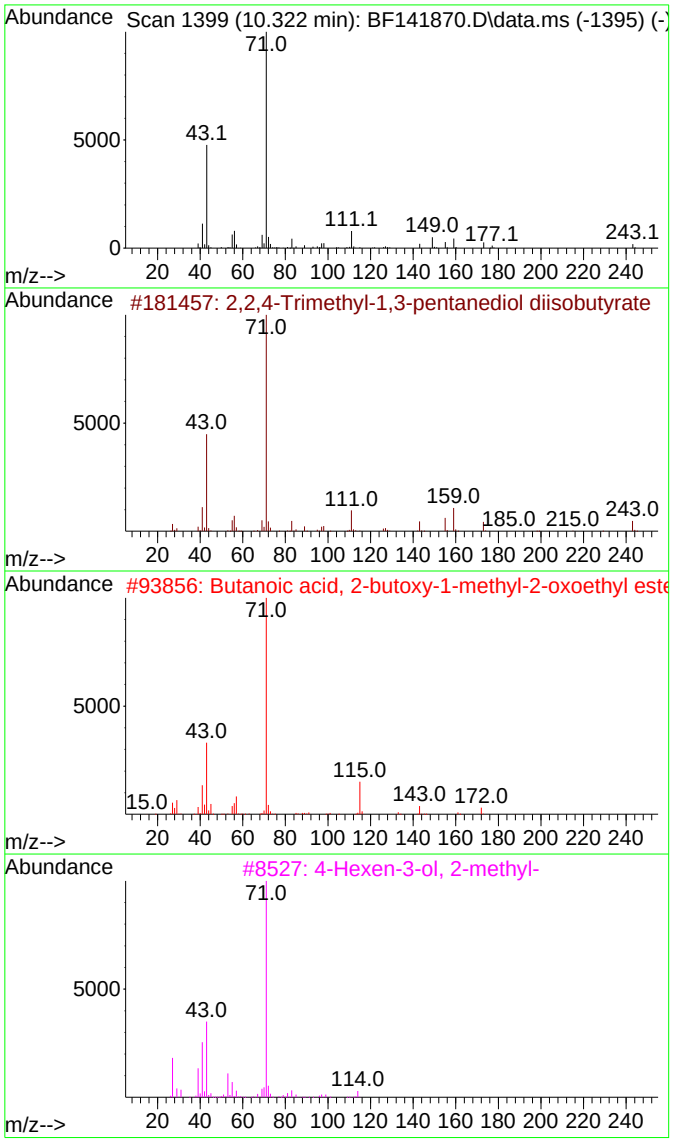
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

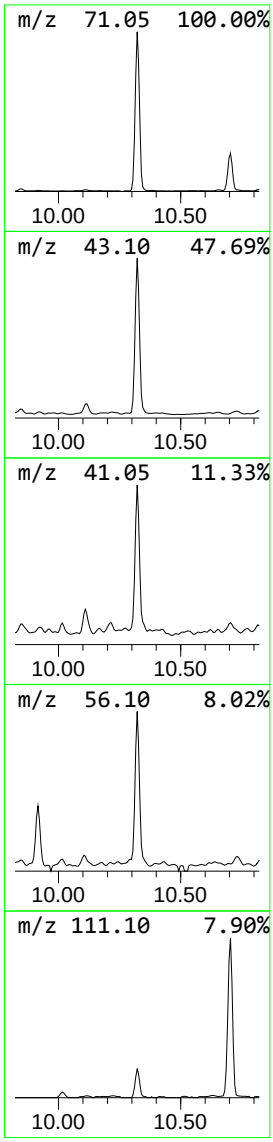
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 2,2,4-Trimethyl-1,3-pentane... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.322	3.08 ng	191841	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2,4-Trimethyl-1,3-pentanediol ...	286	C16H30O4	006846-50-0	72
2	Butanoic acid, 2-butoxy-1-methyl...	216	C11H20O4	007492-70-8	45
3	4-Hexen-3-ol, 2-methyl-	114	C7H14O	004798-60-1	45
4	Succinic acid, 2,2-dichloroethyl...	298	C11H16Cl2O5	1000390-71-6	45
5	Diethylmalonic acid, monochlorid...	262	C12H19ClO4	1000370-65-0	45





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Sample : Q1488-14
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

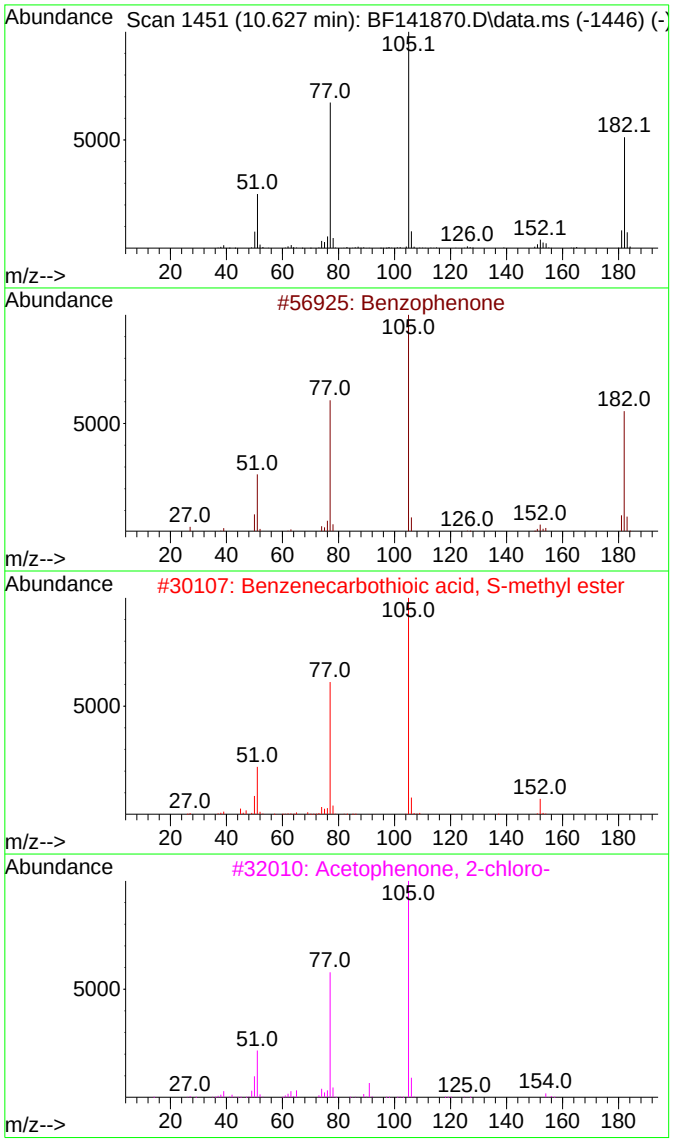
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

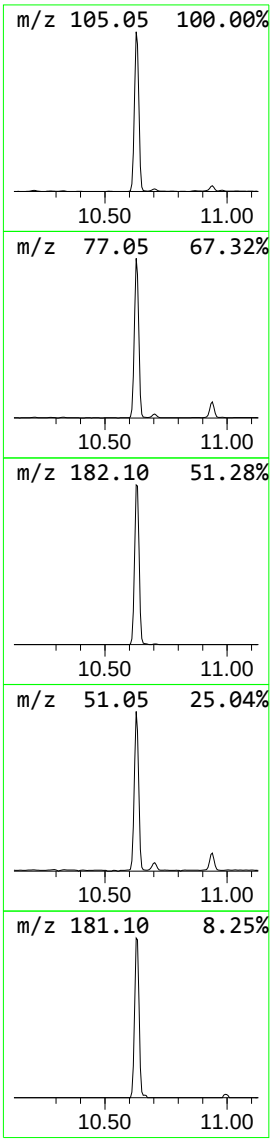
****

Peak Number 10 Benzophenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.628	8.83 ng	549239	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4	Benzilamide	227	C14H13NO2	004746-87-6	47
5	Vinyl benzoate	148	C9H8O2	000769-78-8	47





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Sample : Q1488-14
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ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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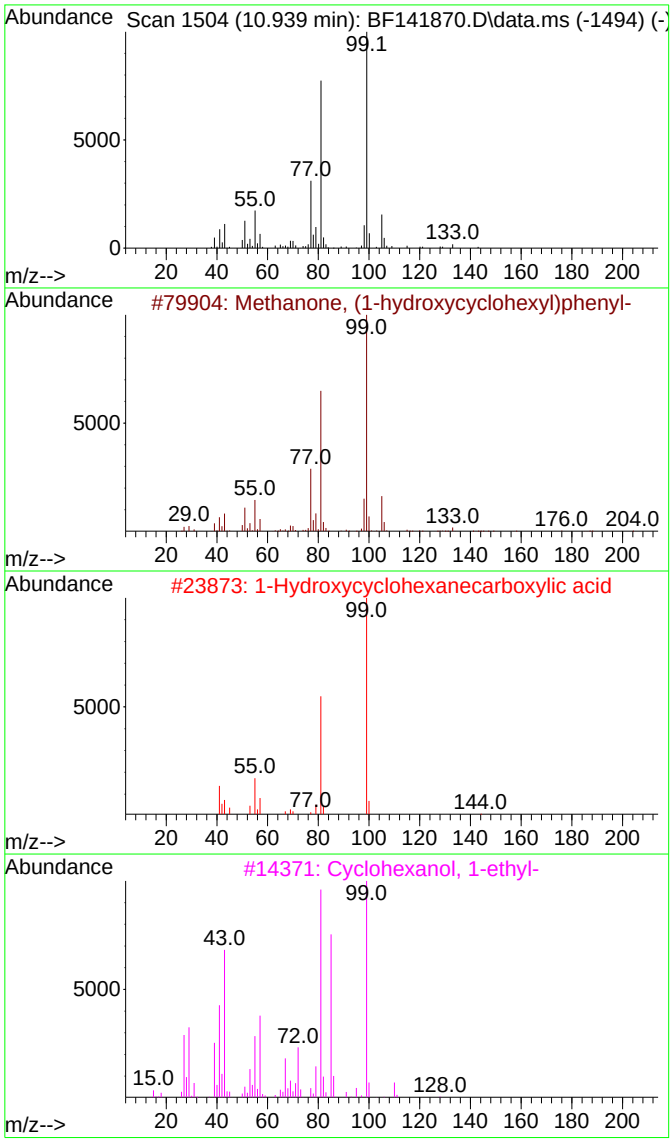
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

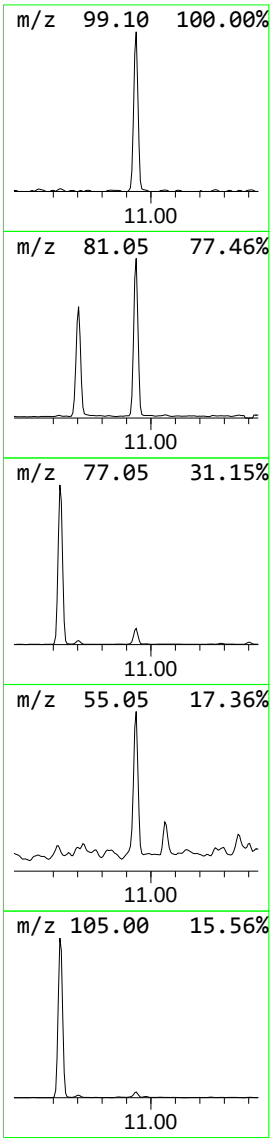
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 11 Methanone, (1-hydroxycycloh... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.939	2.34 ng	144176	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methanone, (1-hydroxycyclohexyl)...	204	C13H16O2	000947-19-3	90
2	1-Hydroxycyclohexanecarboxylic acid	144	C7H12O3	001123-28-0	45
3	Cyclohexanol, 1-ethyl-	128	C8H16O	001940-18-7	36
4	Hexanethioic acid, S-heptyl ester	230	C13H26OS	002432-80-6	22
5	1,1'-Bicyclohexyl-1,1'-diol	198	C12H22O2	002888-11-1	16





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Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

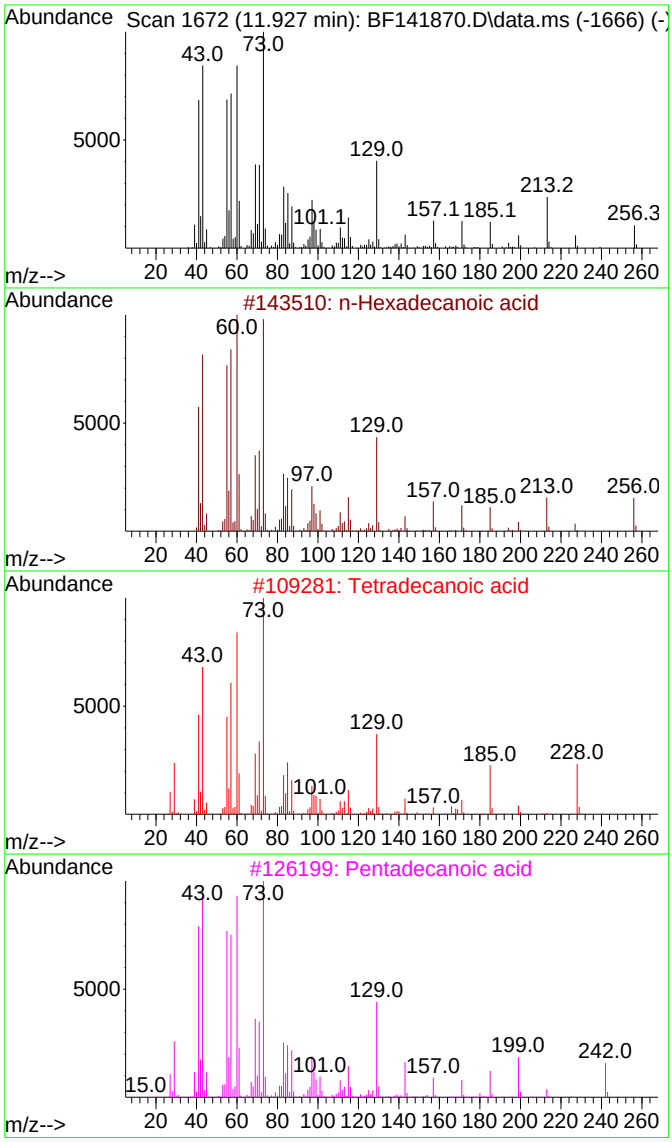
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

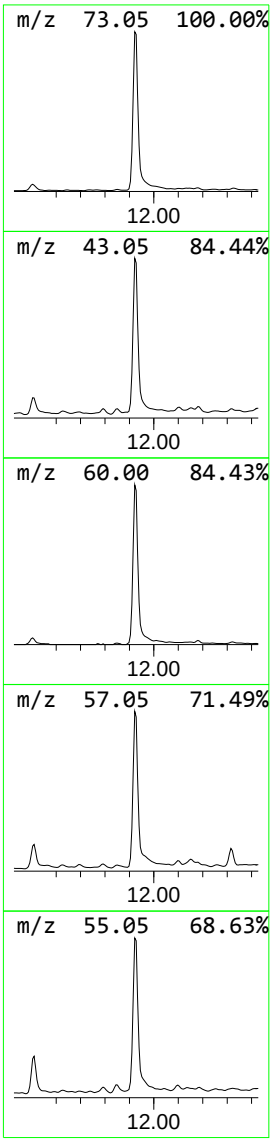
****

Peak Number 12 n-Hexadecanoic acid Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.927	10.03 ng	618168	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
4	Tridecanoic acid	214	C13H26O2	000638-53-9	80
5	n-Decanoic acid	172	C10H20O2	000334-48-5	68





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Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

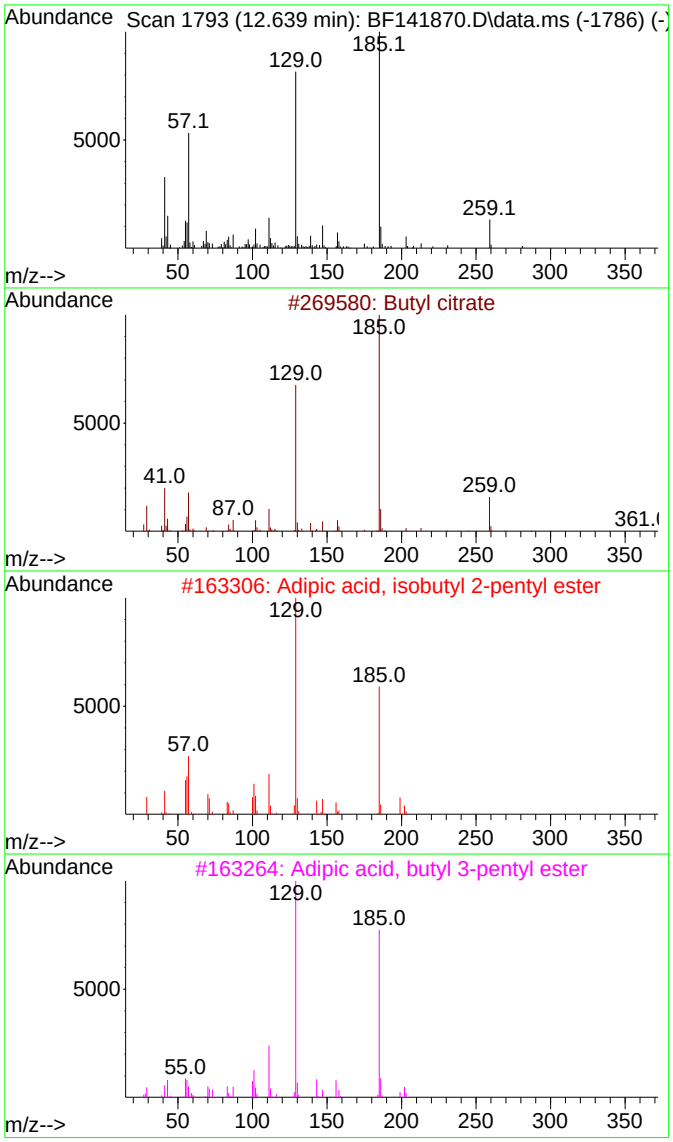
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

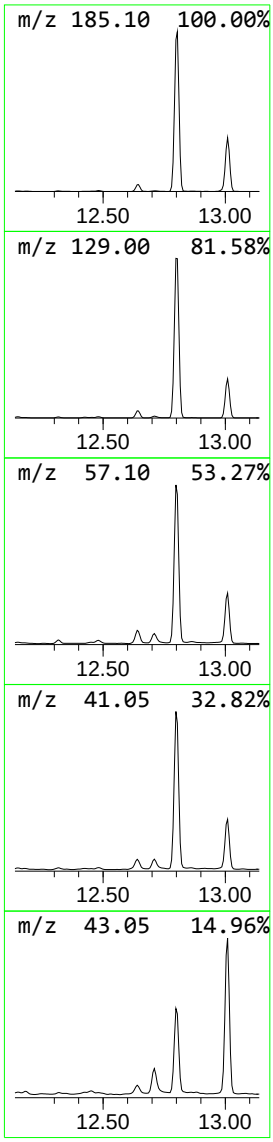
****

Peak Number 13 Butyl citrate Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.639	2.83 ng	174343	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl citrate	360	C18H32O7	000077-94-1	83
2	Adipic acid, isobutyl 2-pentyl e...	272	C15H28O4	1000324-15-6	78
3	Adipic acid, butyl 3-pentyl ester	272	C15H28O4	1000324-60-5	72
4	Adipic acid, isobutyl 2-methylbu...	272	C15H28O4	1000324-67-1	53
5	Adipic acid, 2-decyl isobutyl ester	342	C20H38O4	1000353-59-6	53





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Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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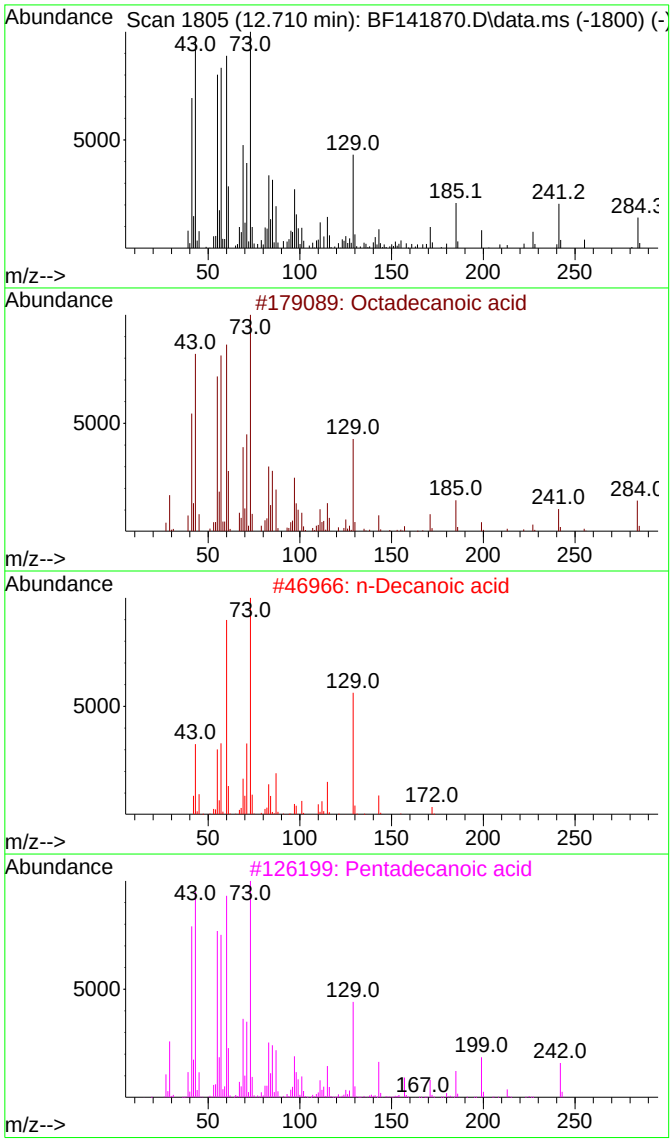
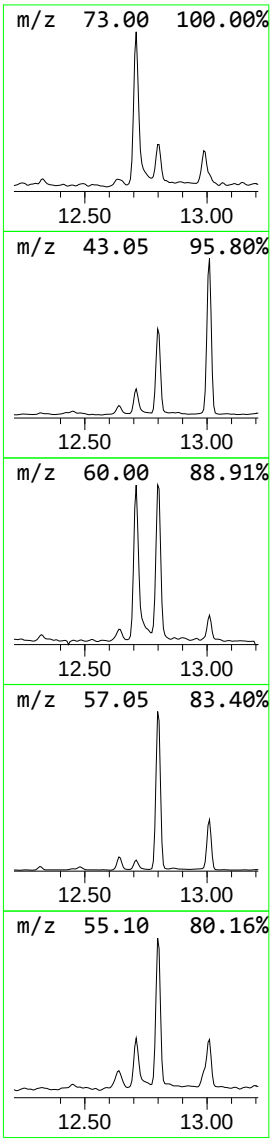
Peak Number 14 Octadecanoic acid Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.710	2.75 ng	169266	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	n-Decanoic acid	172	C10H20O2	000334-48-5	90
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	89
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	83





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

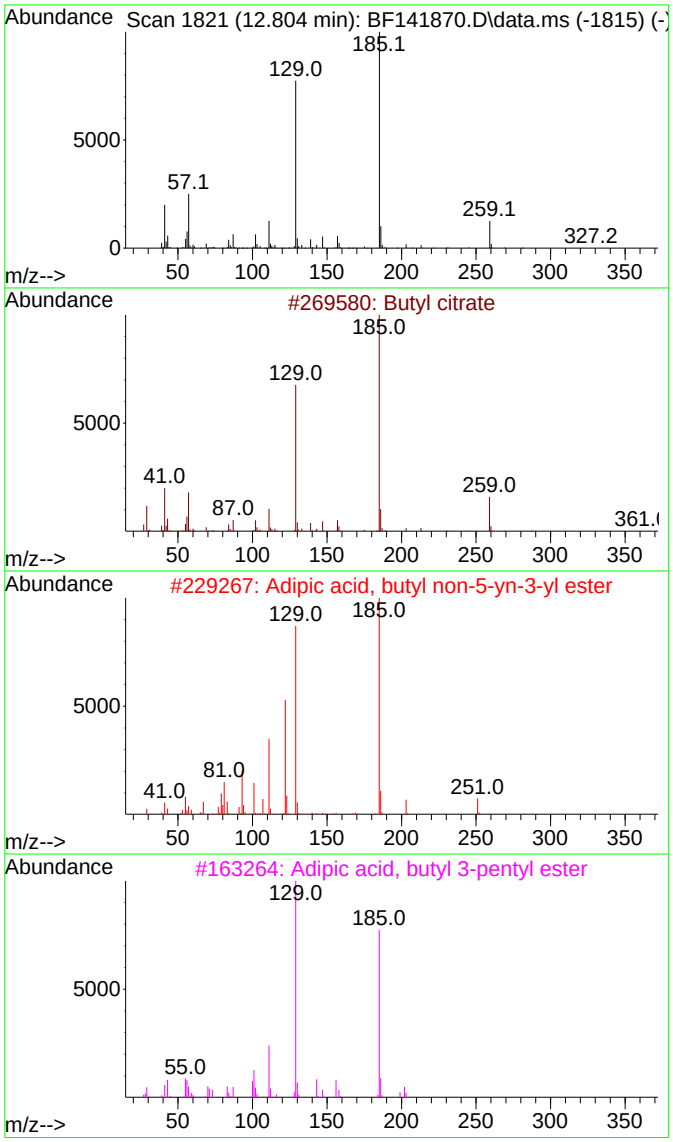
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

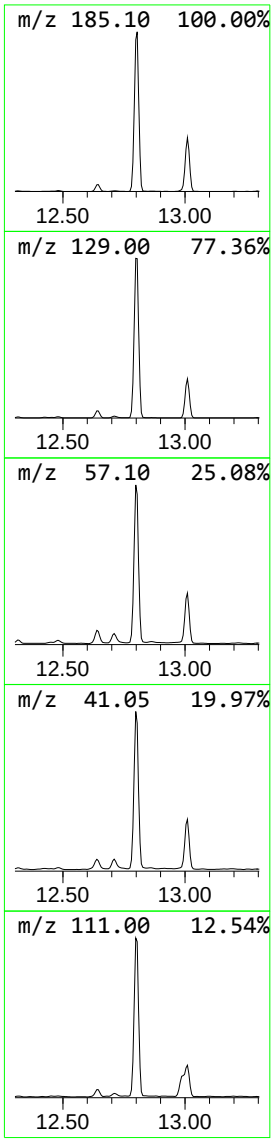
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 15 Adipic acid, butyl non-5-yn... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.804	42.08 ng	2229400	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl citrate	360	C18H32O7	000077-94-1	91
2	Adipic acid, butyl non-5-yn-3-yl...	324	C19H32O4	1000324-32-5	72
3	Adipic acid, butyl 3-pentyl ester	272	C15H28O4	1000324-60-5	64
4	Adipic acid, isobutyl pent-4-en-...	270	C15H26O4	1000354-11-8	56
5	Adipic acid, butyl isobutyl ester	258	C14H26O4	1010324-09-3	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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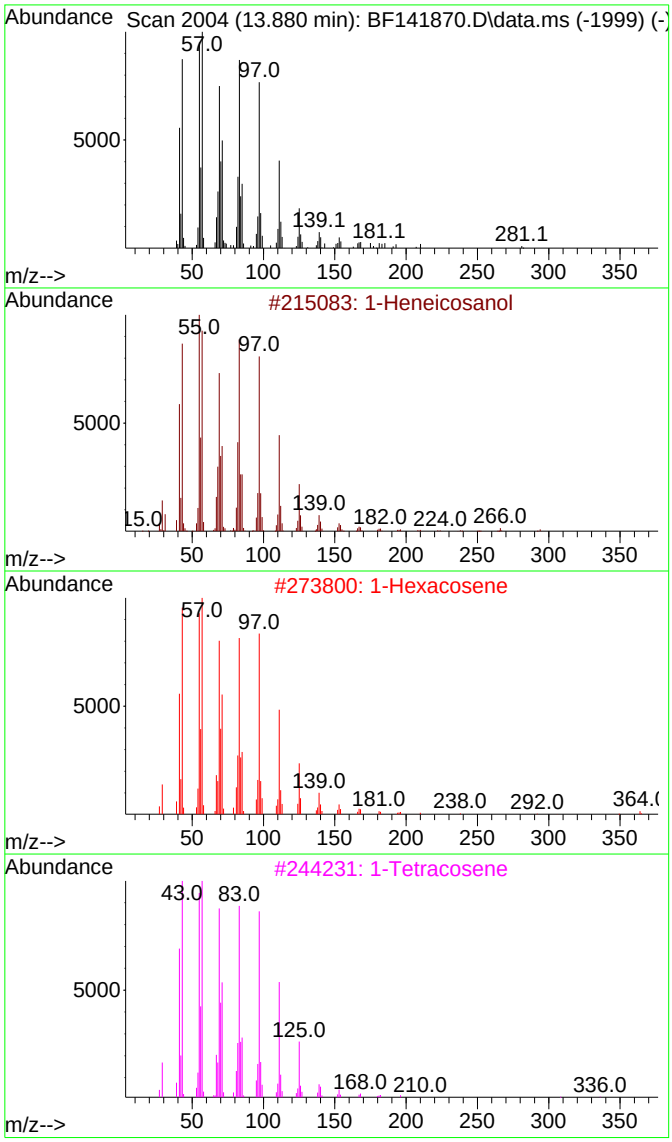
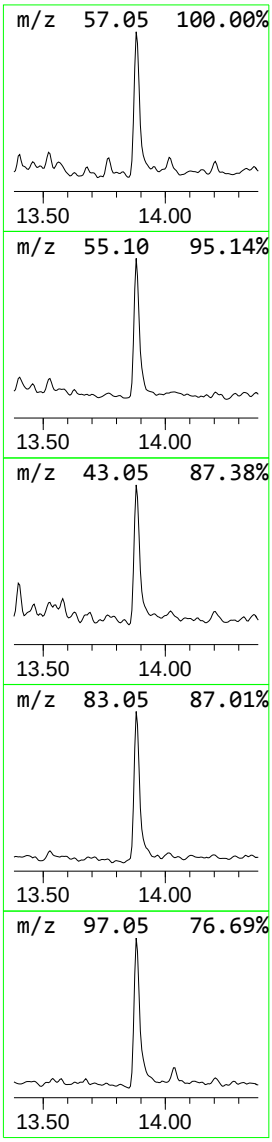
Peak Number 16 1-Heneicosanol Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.880	2.93 ng	155488	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	95
2	1-Hexacosene	364	C26H52	018835-33-1	95
3	1-Tetracosene	336	C24H48	010192-32-2	94
4	n-Tetracosanol-1	354	C24H50O	000506-51-4	93
5	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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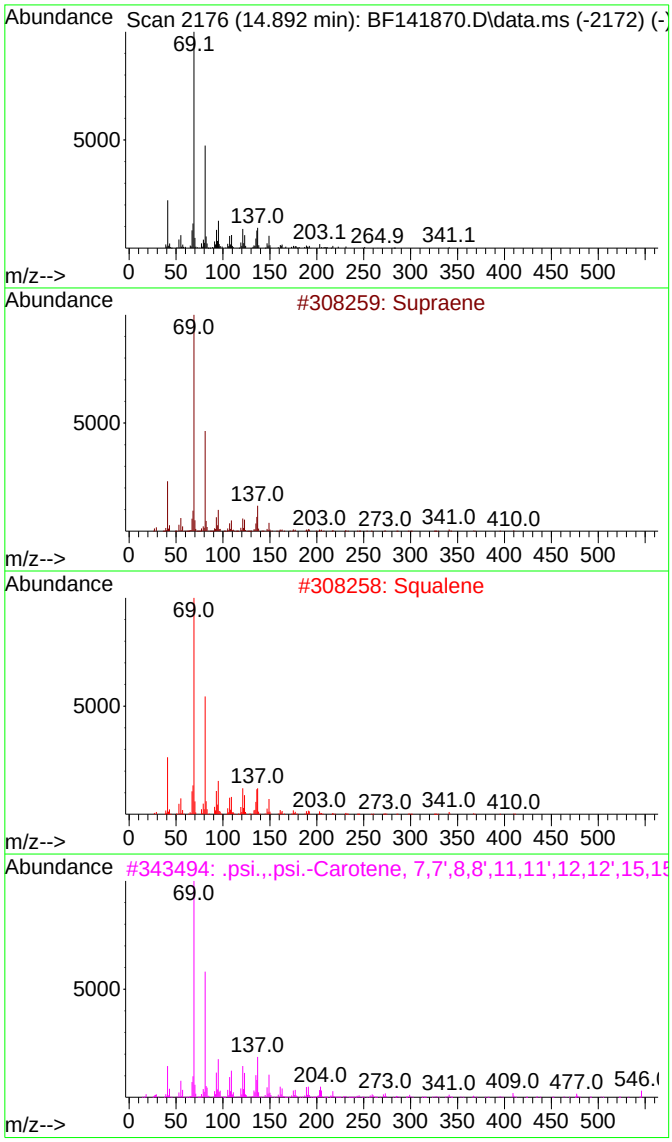
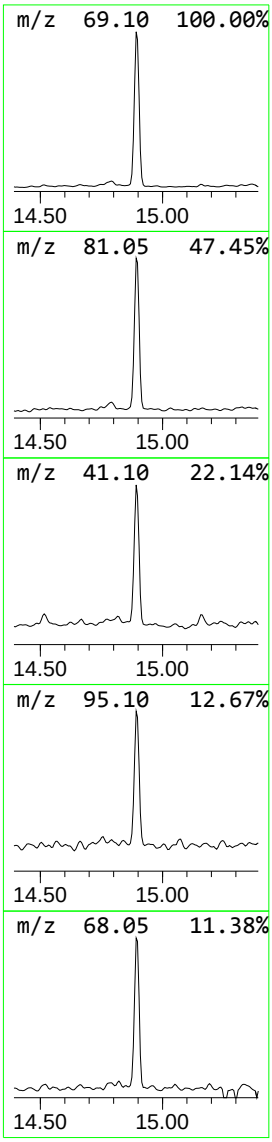
Peak Number 17 Supraene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.892	2.92 ng	157719	Perylene-d12	15.509

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Supraene	410	C30H50	007683-64-9	91
2	Squalene	410	C30H50	000111-02-4	91
3	.psi.,.psi.-Carotene, 7,7',8,8',...	547	C40H66	000502-62-5	83
4	4,9,13,17-Tetramethyl-4,8,12,16-...	316	C22H36O	056882-09-8	83
5	Docosa-2,6,10,14,18-pentaen-22-a...	384	C27H44O	1000163-04-7	83





Sample Results: **BF141870.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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
Butane, 2-metho...	2.169	114.8	ng	5245560	1	6.887	913939	20.0
2-Pentanone, 4-...	5.104	8.1	ng	367973	1	6.887	913939	20.0
Ethanol, 2-butoxy-	5.834	4.8	ng	220234	1	6.887	913939	20.0
2-Propanol, 1-(...	6.687	19.6	ng	895975	1	6.887	913939	20.0
2-Propanol, 1-(...	6.716	17.4	ng	797169	1	6.887	913939	20.0
2-Propanol, 1-(...	6.810	27.8	ng	1272310	1	6.887	913939	20.0
1-Hexanol, 2-et...	6.939	3.7	ng	171031	1	6.887	913939	20.0
Hexanoic acid, ...	7.516	2.6	ng	121312	1	6.887	913939	20.0
2,2,4-Trimethyl...	10.322	3.1	ng	191841	3	9.916	1244590	20.0
Benzophenone	10.628	8.8	ng	549239	3	9.916	1244590	20.0
Methanone, (1-h...	10.939	2.3	ng	144176	4	11.404	1232760	20.0
n-Hexadecanoic ...	11.927	10.0	ng	618168	4	11.404	1232760	20.0
Butyl citrate	12.639	2.8	ng	174343	4	11.404	1232760	20.0
Octadecanoic acid	12.710	2.8	ng	169266	4	11.404	1232760	20.0
Adipic acid, bu...	12.804	42.1	ng	2229400	5	14.039	1059710	20.0
1-Heneicosanol	13.880	2.9	ng	155488	5	14.039	1059710	20.0
Supraene	14.892	2.9	ng	157719	6	15.509	1081960	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: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: BNA_F Calibration Date(s): 02/27/2025 02/27/2025

Calibration Time(s): 15:17 18:45

LAB FILE ID: RRF2.5 = BF141793.D RRF005 = BF141794.D RRF010 = BF141795.D
RRF020 = BF141796.D RRF040 = BF141797.D RRF050 = BF141798.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.348	1.315	1.326	1.286	1.185	1.252	6.9
Benzaldehyde		1.151	1.088	1.024	0.982	0.874	0.948	16.8
Phenol-d6		1.750	1.707	1.728	1.684	1.541	1.630	6.9
Phenol		1.854	1.823	1.866	1.819	1.641	1.742	7.3
bis(2-Chloroethyl)ether		1.377	1.376	1.392	1.339	1.279	1.328	4.3
2-Chlorophenol		1.442	1.406	1.439	1.412	1.299	1.355	6.7
2-Methylphenol		1.155	1.132	1.165	1.164	1.079	1.118	4.2
2,2-oxybis(1-Chloropropane)		2.139	2.094	2.149	2.079	1.930	2.016	6.5
Acetophenone		0.539	0.517	0.512	0.497	0.456	0.487	8.0
3+4-Methylphenols		1.507	1.510	1.506	1.442	1.304	1.392	9.3
n-Nitroso-di-n-propylamine	1.133	1.136	1.105	1.120	1.087	1.009	1.072	6.0
Nitrobenzene-d5		0.248	0.271	0.318	0.341	0.332	0.313	12.1
Hexachloroethane		0.559	0.542	0.575	0.578	0.533	0.547	4.4
Nitrobenzene		0.273	0.303	0.346	0.363	0.349	0.335	10.1
Isophorone		0.702	0.682	0.690	0.682	0.642	0.672	3.4
2-Nitrophenol		0.079	0.090	0.116	0.144	0.145	0.127	25.2
2,4-Dimethylphenol		0.258	0.250	0.256	0.254	0.238	0.247	3.9
bis(2-Chloroethoxy)methane		0.463	0.448	0.450	0.435	0.404	0.429	6.2
2,4-Dichlorophenol		0.280	0.288	0.296	0.298	0.277	0.285	3.2
Naphthalene		1.140	1.097	1.100	1.043	0.960	1.028	8.7
4-Chloroaniline		0.402	0.392	0.398	0.379	0.350	0.377	5.7
Hexachlorobutadiene		0.199	0.193	0.202	0.199	0.188	0.194	3.0
Caprolactam		0.087	0.086	0.090	0.091	0.085	0.088	2.8
4-Chloro-3-methylphenol		0.333	0.316	0.329	0.326	0.300	0.317	4.2
2-Methylnaphthalene		0.762	0.725	0.723	0.677	0.621	0.674	9.7
Hexachlorocyclopentadiene		0.217	0.230	0.252	0.258	0.246	0.241	5.9
2,4,6-Trichlorophenol		0.355	0.368	0.381	0.398	0.366	0.373	3.7
2-Fluorobiphenyl		1.443	1.387	1.346	1.237	1.128	1.247	11.9
2,4,5-Trichlorophenol		0.348	0.364	0.388	0.383	0.364	0.369	3.9
1,1-Biphenyl		1.694	1.659	1.630	1.519	1.413	1.522	9.4
2-Chloronaphthalene		1.211	1.184	1.201	1.135	1.058	1.124	7.1
2-Nitroaniline		0.152	0.187	0.246	0.300	0.297	0.260	26.0
Dimethylphthalate		1.431	1.405	1.405	1.363	1.262	1.339	6.1
Acenaphthylene		1.847	1.809	1.798	1.711	1.560	1.685	8.5

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: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: BNA_F Calibration Date(s): 02/27/2025 02/27/2025

Calibration Time(s): 15:17 18:45

LAB FILE ID: RRF2.5 = BF141793.D RRF005 = BF141794.D RRF010 = BF141795.D
RRF020 = BF141796.D RRF040 = BF141797.D RRF050 = BF141798.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.136	0.184	0.231	0.257	0.251	0.226	21.5
3-Nitroaniline		0.146	0.193	0.243	0.277	0.264	0.241	21.7
Acenaphthene		1.217	1.201	1.197	1.150	1.068	1.137	6.4
2,4-Dinitrophenol			0.049	0.066	0.093	0.096	0.089	29.7
4-Nitrophenol		0.129	0.159	0.197	0.228	0.215	0.198	19.9
Dibenzofuran		1.850	1.794	1.765	1.663	1.532	1.654	9.4
2,4-Dinitrotoluene		0.151	0.198	0.265	0.313	0.310	0.269	25.6
Diethylphthalate		1.429	1.413	1.428	1.383	1.259	1.343	6.8
4-Chlorophenyl-phenylether		0.691	0.665	0.654	0.620	0.572	0.621	8.1
Fluorene		1.433	1.367	1.313	1.228	1.128	1.239	11.0
4-Nitroaniline		0.149	0.187	0.229	0.267	0.248	0.229	19.5
4,6-Dinitro-2-methylphenol			0.043	0.063	0.087	0.090	0.081	28.9
n-Nitrosodiphenylamine		0.702	0.681	0.689	0.665	0.631	0.657	5.6
2,4,6-Tribromophenol		0.175	0.179	0.188	0.199	0.183	0.188	4.8
4-Bromophenyl-phenylether		0.241	0.237	0.239	0.238	0.227	0.234	2.9
Hexachlorobenzene		0.253	0.249	0.255	0.251	0.240	0.247	2.8
Atrazine		0.213	0.208	0.196	0.179	0.149	0.181	17.1
Pentachlorophenol		0.137	0.146	0.161	0.169	0.159	0.156	7.1
Phenanthrene		1.186	1.152	1.134	1.073	1.001	1.070	8.6
Anthracene		1.203	1.156	1.155	1.068	1.002	1.072	9.5
Carbazole		1.074	1.010	1.014	0.955	0.882	0.947	9.7
Di-n-butylphthalate		1.335	1.291	1.291	1.208	1.128	1.200	9.3
Fluoranthene		1.285	1.217	1.192	1.089	0.992	1.096	12.7
Pyrene		1.698	1.687	1.815	1.796	1.738	1.732	3.3
Terphenyl-d14		1.250	1.233	1.297	1.259	1.230	1.236	3.4
Butylbenzylphthalate		0.546	0.579	0.643	0.668	0.650	0.629	7.5
3,3-Dichlorobenzidine		0.406	0.380	0.382	0.393	0.364	0.379	4.3
Benzo(a)anthracene		1.367	1.387	1.384	1.312	1.244	1.321	4.5
Chrysene		1.303	1.184	1.235	1.265	1.185	1.218	4.4
Bis(2-ethylhexyl)phthalate		0.702	0.696	0.788	0.832	0.811	0.783	7.6
Di-n-octyl phthalate		0.903	0.922	1.109	1.307	1.304	1.173	16.6
Benzo(b)fluoranthene		1.442	1.396	1.533	1.306	1.232	1.362	7.8
Benzo(k)fluoranthene		1.274	1.240	1.098	1.214	1.165	1.158	7.7
Benzo(a)pyrene		1.113	1.083	1.133	1.119	1.060	1.093	2.7
Indeno(1,2,3-cd)pyrene		1.097	1.126	1.240	1.346	1.337	1.274	9.5

All other compounds must meet a minimum RRF of 0.010.

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: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: BNA_F Calibration Date(s): 02/27/2025 02/27/2025

Calibration Time(s): 15:17 18:45

LAB FILE ID: RRF2.5 = BF141793.D RRF005 = BF141794.D RRF010 = BF141795.D
RRF020 = BF141796.D RRF040 = BF141797.D RRF050 = BF141798.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo(a,h)anthracene		0.902	0.931	1.025	1.109	1.094	1.040	8.6
Benzo(g,h,i)perylene		0.898	0.929	1.034	1.130	1.129	1.065	10.6
1,2,4,5-Tetrachlorobenzene		0.609	0.600	0.602	0.589	0.549	0.578	5.0
1,4-Dioxane		0.613	0.554	0.576	0.596	0.545	0.568	4.8
2,3,4,6-Tetrachlorophenol		0.313	0.314	0.336	0.339	0.309	0.321	3.7

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-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Feb 28 01:48:16 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF141793.D 5 =BF141794.D 10 =BF141795.D 20 =BF141796.D 40 =BF141797.D 50 =BF141798.D 60 =BF141799.D 80 =BF141800.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.613	0.554	0.576	0.596	0.545	0.554	0.541	0.568	4.81
3)		Pyridine		1.403	1.412	1.486	1.476	1.380	1.389	1.350	1.414	3.54
4)		n-Nitrosodimet...		0.634	0.666	0.689	0.730	0.674	0.686	0.683	0.680	4.21
5)	S	2-Fluorophenol		1.348	1.315	1.326	1.286	1.185	1.176	1.131	1.252	6.91
6)		Aniline		1.746	1.727	1.805	1.809	1.642	1.625	1.509	1.695	6.42
7)	S	Phenol-d6		1.750	1.707	1.728	1.684	1.541	1.523	1.477	1.630	6.90
8)		2-Chlorophenol		1.442	1.406	1.439	1.412	1.299	1.266	1.220	1.355	6.72
9)		Benzaldehyde		1.151	1.088	1.024	0.982	0.874	0.824	0.694	0.948	16.84
10)	C	Phenol		1.854	1.823	1.866	1.819	1.641	1.625	1.564	1.742	7.26
11)		bis(2-Chloroet...		1.377	1.376	1.392	1.339	1.279	1.265	1.265	1.328	4.26
12)		1,3-Dichlorobe...		1.544	1.520	1.541	1.504	1.378	1.361	1.308	1.451	6.80
13)	C	1,4-Dichlorobe...		1.554	1.533	1.549	1.512	1.390	1.377	1.317	1.462	6.66
14)		1,2-Dichlorobe...		1.493	1.444	1.476	1.401	1.286	1.270	1.186	1.365	8.63
15)		Benzyl Alcohol		1.347	1.353	1.374	1.366	1.258	1.241	1.180	1.303	5.82
16)		2,2'-oxybis(1-...		2.139	2.094	2.149	2.079	1.930	1.910	1.814	2.016	6.47
17)		2-Methylphenol		1.155	1.132	1.165	1.164	1.079	1.084	1.049	1.118	4.22
18)		Hexachloroethane		0.559	0.542	0.575	0.578	0.533	0.530	0.513	0.547	4.39
19)	P	n-Nitroso-di-n...	1.133	1.136	1.105	1.120	1.087	1.009	1.007	0.975	1.072	6.01
20)		3+4-Methylphenols		1.507	1.510	1.506	1.442	1.304	1.281	1.198	1.392	9.29
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.539	0.517	0.512	0.497	0.456	0.455	0.434	0.487	8.04
23)	S	Nitrobenzene-d5		0.248	0.271	0.318	0.341	0.332	0.340	0.339	0.313	12.10
24)		Nitrobenzene		0.273	0.303	0.346	0.363	0.349	0.357	0.354	0.335	10.07
25)		Isophorone		0.702	0.682	0.690	0.682	0.642	0.659	0.649	0.672	3.35
26)	C	2-Nitrophenol		0.079	0.090	0.116	0.144	0.145	0.155	0.158	0.127	25.21
27)		2,4-Dimethylph...		0.258	0.250	0.256	0.254	0.238	0.238	0.236	0.247	3.87
28)		bis(2-Chloroet...		0.463	0.448	0.450	0.435	0.404	0.408	0.394	0.429	6.19
29)	C	2,4-Dichloroph...		0.280	0.288	0.296	0.298	0.277	0.281	0.275	0.285	3.20
30)		1,2,4-Trichlor...		0.328	0.321	0.327	0.319	0.298	0.301	0.292	0.312	4.71
31)		Naphthalene		1.140	1.097	1.100	1.043	0.960	0.950	0.906	1.028	8.74
32)		Benzoic acid			0.099	0.145	0.191	0.200	0.215	0.226	0.179	26.89
33)		4-Chloroaniline		0.402	0.392	0.398	0.379	0.350	0.356	0.360	0.377	5.66
34)	C	Hexachlorobuta...		0.199	0.193	0.202	0.199	0.188	0.191	0.187	0.194	2.98
35)		Caprolactam		0.087	0.086	0.090	0.091	0.085	0.089	0.086	0.088	2.77
36)	C	4-Chloro-3-met...		0.333	0.316	0.329	0.326	0.300	0.310	0.303	0.317	4.16
37)		2-Methylnaphth...		0.762	0.725	0.723	0.677	0.621	0.619	0.591	0.674	9.66
38)		1-Methylnaphth...		0.734	0.688	0.697	0.652	0.594	0.594	0.570	0.647	9.67

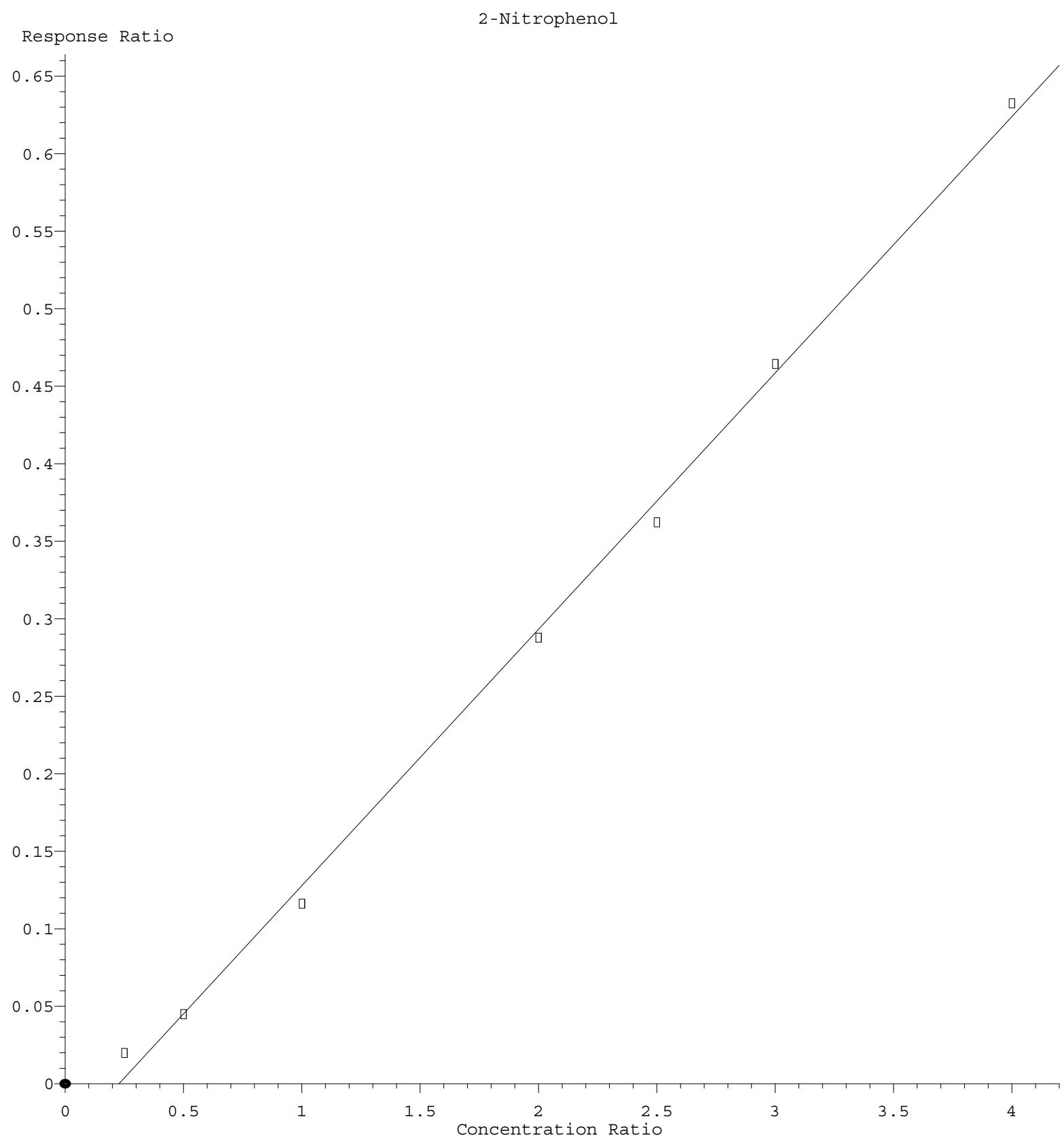
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022725.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.609	0.600	0.602	0.589	0.549	0.553	0.540	0.578	5.03
41)	P	Hexachlorocycl...	0.217	0.230	0.252	0.258	0.246	0.247	0.236	0.241	5.87
42)	S	2,4,6-Tribromo...	0.175	0.179	0.188	0.199	0.183	0.196	0.194	0.188	4.80
43)	C	2,4,6-Trichlor...	0.355	0.368	0.381	0.398	0.366	0.368	0.377	0.373	3.65
44)		2,4,5-Trichlor...	0.348	0.364	0.388	0.383	0.364	0.380	0.360	0.369	3.89
45)	S	2-Fluorobiphenyl	1.443	1.387	1.346	1.237	1.128	1.141	1.049	1.247	11.93
46)		1,1'-Biphenyl	1.694	1.659	1.630	1.519	1.413	1.419	1.323	1.522	9.38
47)		2-Chloronaphth...	1.211	1.184	1.201	1.135	1.058	1.071	1.006	1.124	7.10
48)		2-Nitroaniline	0.152	0.187	0.246	0.300	0.297	0.319	0.323	0.260	26.00
49)		Acenaphthylene	1.847	1.809	1.798	1.711	1.560	1.596	1.472	1.685	8.54
50)		Dimethylphthalate	1.431	1.405	1.405	1.363	1.262	1.285	1.224	1.339	6.09
51)		2,6-Dinitrotol...	0.136	0.184	0.231	0.257	0.251	0.265	0.261	0.226	21.50
52)	C	Acenaphthene	1.217	1.201	1.197	1.150	1.068	1.084	1.039	1.137	6.37
53)		3-Nitroaniline	0.146	0.193	0.243	0.277	0.264	0.282	0.280	0.241	21.68
54)	P	2,4-Dinitrophenol		0.049	0.066	0.093	0.096	0.112	0.116	0.089	29.73
55)		Dibenzofuran	1.850	1.794	1.765	1.663	1.532	1.542	1.436	1.654	9.40
56)	P	4-Nitrophenol	0.129	0.159	0.197	0.228	0.215	0.229	0.227	0.198	19.87
57)		2,4-Dinitrotol...	0.151	0.198	0.265	0.313	0.310	0.325	0.320	0.269	25.57
58)		Fluorene	1.433	1.367	1.313	1.228	1.128	1.134	1.072	1.239	10.97
59)		2,3,4,6-Tetrac...	0.313	0.314	0.336	0.339	0.309	0.322	0.315	0.321	3.66
60)		Diethylphthalate	1.429	1.413	1.428	1.383	1.259	1.275	1.212	1.343	6.78
61)		4-Chlorophenyl...	0.691	0.665	0.654	0.620	0.572	0.583	0.562	0.621	8.09
62)		4-Nitroaniline	0.149	0.187	0.229	0.267	0.248	0.265	0.256	0.229	19.54
63)		Azobenzene	1.544	1.503	1.505	1.437	1.320	1.325	1.262	1.414	7.81
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.043	0.063	0.087	0.090	0.100	0.103	0.081	28.86
66)	c	n-Nitrosodiphe...	0.702	0.681	0.689	0.665	0.631	0.623	0.607	0.657	5.56
67)		4-Bromophenyl-...	0.241	0.237	0.239	0.238	0.227	0.230	0.224	0.234	2.86
68)		Hexachlorobenzene	0.253	0.249	0.255	0.251	0.240	0.242	0.237	0.247	2.79
69)		Atrazine	0.213	0.208	0.196	0.179	0.149	0.139		0.181	17.11
70)	C	Pentachlorophenol	0.137	0.146	0.161	0.169	0.159	0.164	0.160	0.156	7.07
71)		Phenanthrene	1.186	1.152	1.134	1.073	1.001	1.001	0.940	1.070	8.58
72)		Anthracene	1.203	1.156	1.155	1.068	1.002	0.990	0.931	1.072	9.54
73)		Carbazole	1.074	1.010	1.014	0.955	0.882	0.871	0.821	0.947	9.69
74)		Di-n-butylphth...	1.335	1.291	1.291	1.208	1.128	1.114	1.035	1.200	9.30
75)	C	Fluoranthene	1.285	1.216	1.192	1.089	0.992	0.981	0.917	1.096	12.66
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.342	0.198	0.259	0.214	0.181	0.316	0.252	26.09
78)		Pyrene	1.698	1.687	1.815	1.796	1.738	1.734	1.656	1.732	3.32
79)	S	Terphenyl-d14	1.250	1.233	1.297	1.259	1.230	1.227	1.157	1.236	3.43
80)		Butylbenzylpht...	0.546	0.579	0.643	0.668	0.650	0.667	0.652	0.629	7.54
81)		Benzo(a)anthra...	1.367	1.387	1.384	1.312	1.244	1.262	1.292	1.321	4.46
82)		3,3'-Dichlorob...	0.406	0.380	0.382	0.393	0.364	0.364	0.365	0.379	4.27
83)		Chrysene	1.303	1.184	1.235	1.265	1.185	1.209	1.144	1.218	4.42
84)		Bis(2-ethylhex...	0.702	0.696	0.788	0.832	0.811	0.828	0.827	0.783	7.59
85)	c	Di-n-octyl pht...	0.903	0.922	1.109	1.307	1.304	1.318	1.348	1.173	16.59

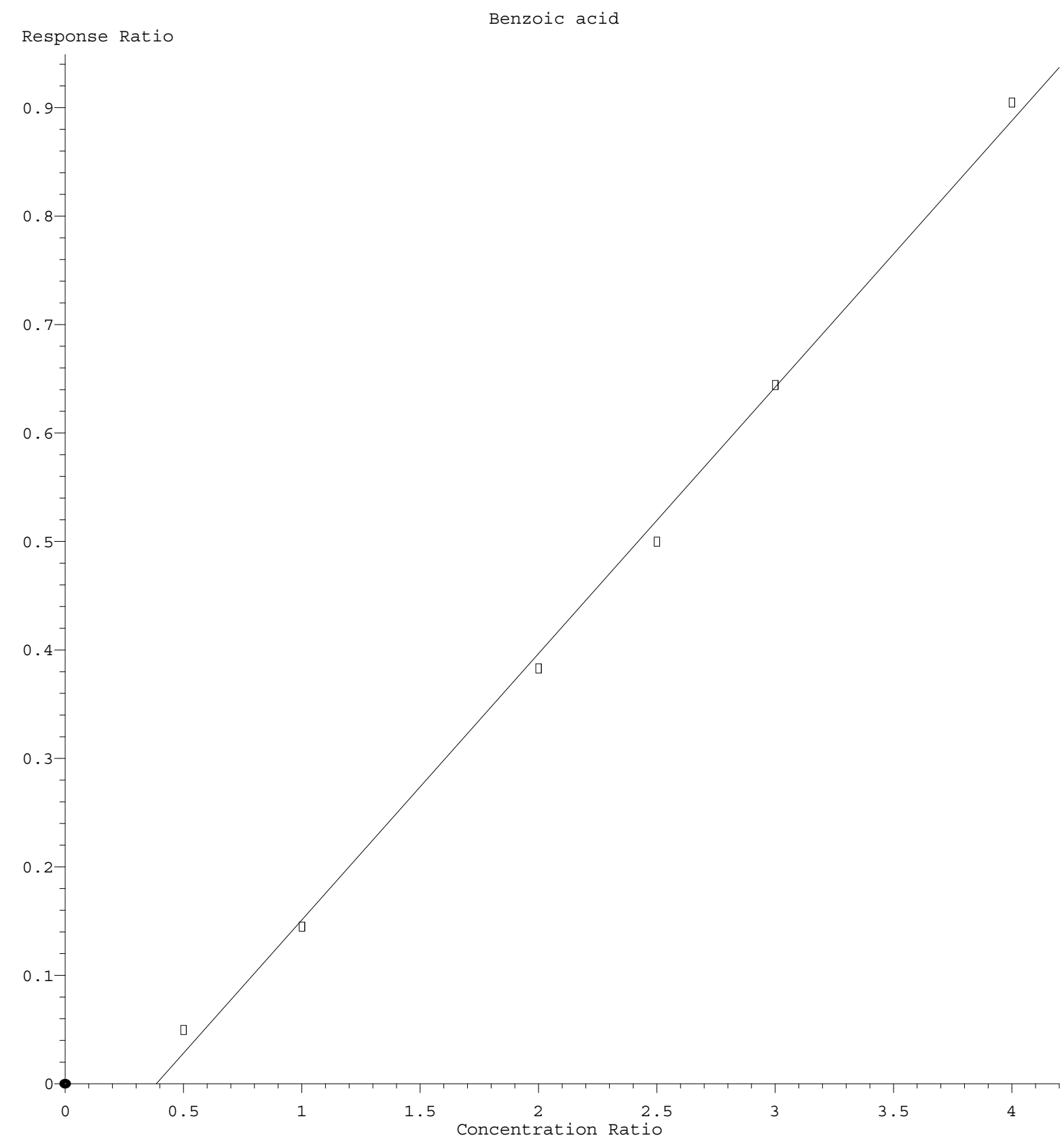
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022725.M

86)	I	Perylene-d12	----------ISTD----------								
87)		Indeno(1,2,3-c...	1.097	1.126	1.240	1.346	1.337	1.371	1.397	1.274	9.52
88)		Benzo(b)fluora...	1.442	1.396	1.533	1.306	1.232	1.370	1.256	1.362	7.81
89)		Benzo(k)fluora...	1.274	1.240	1.098	1.214	1.165	1.040	1.074	1.158	7.70
90)	C	Benzo(a)pyrene	1.113	1.083	1.133	1.119	1.060	1.080	1.060	1.093	2.68
91)		Dibenzo(a,h)an...	0.902	0.931	1.025	1.109	1.094	1.101	1.115	1.040	8.63
92)		Benzo(g,h,i)pe...	0.898	0.929	1.034	1.130	1.129	1.156	1.179	1.065	10.60

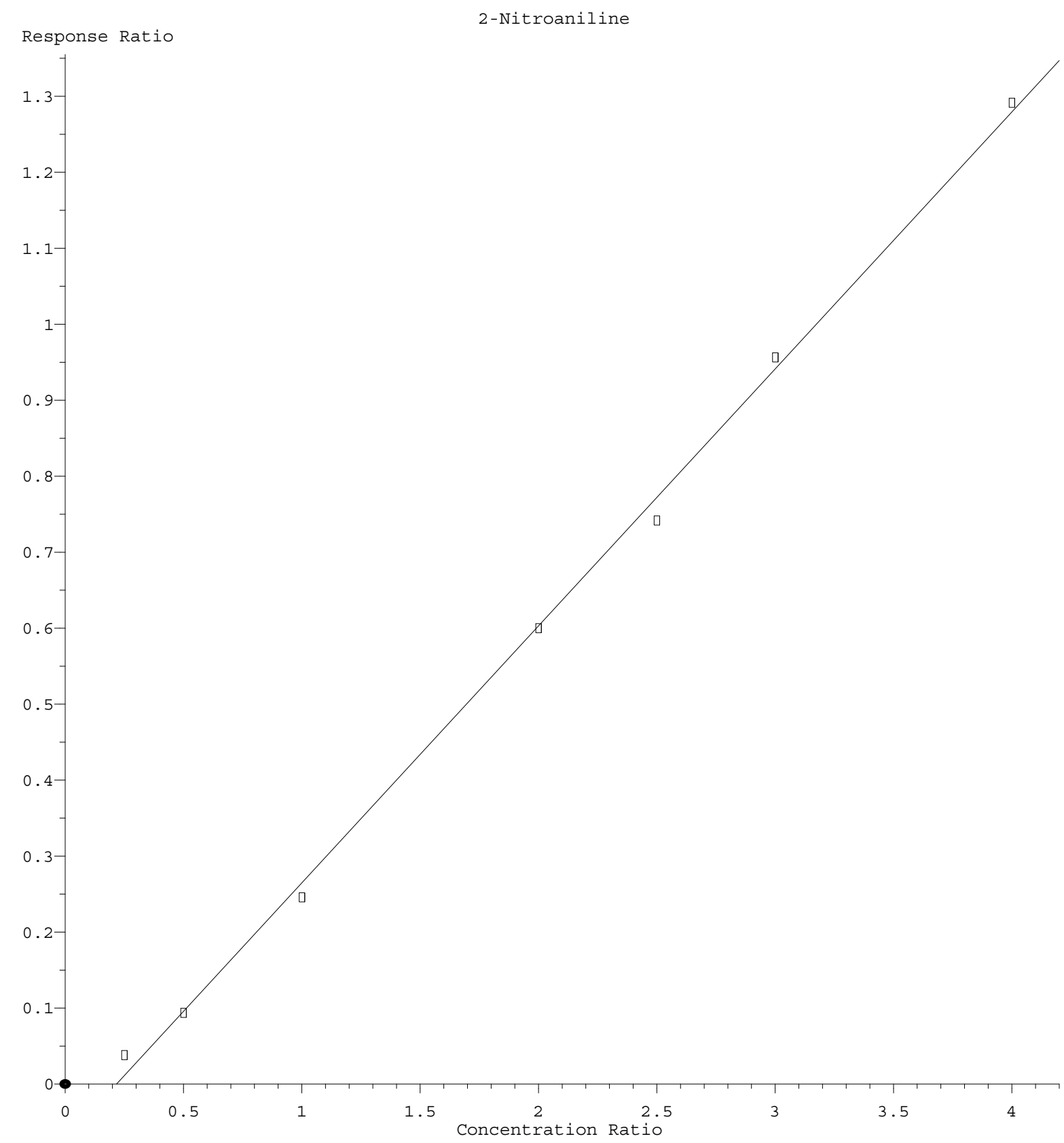
(#) = Out of Range



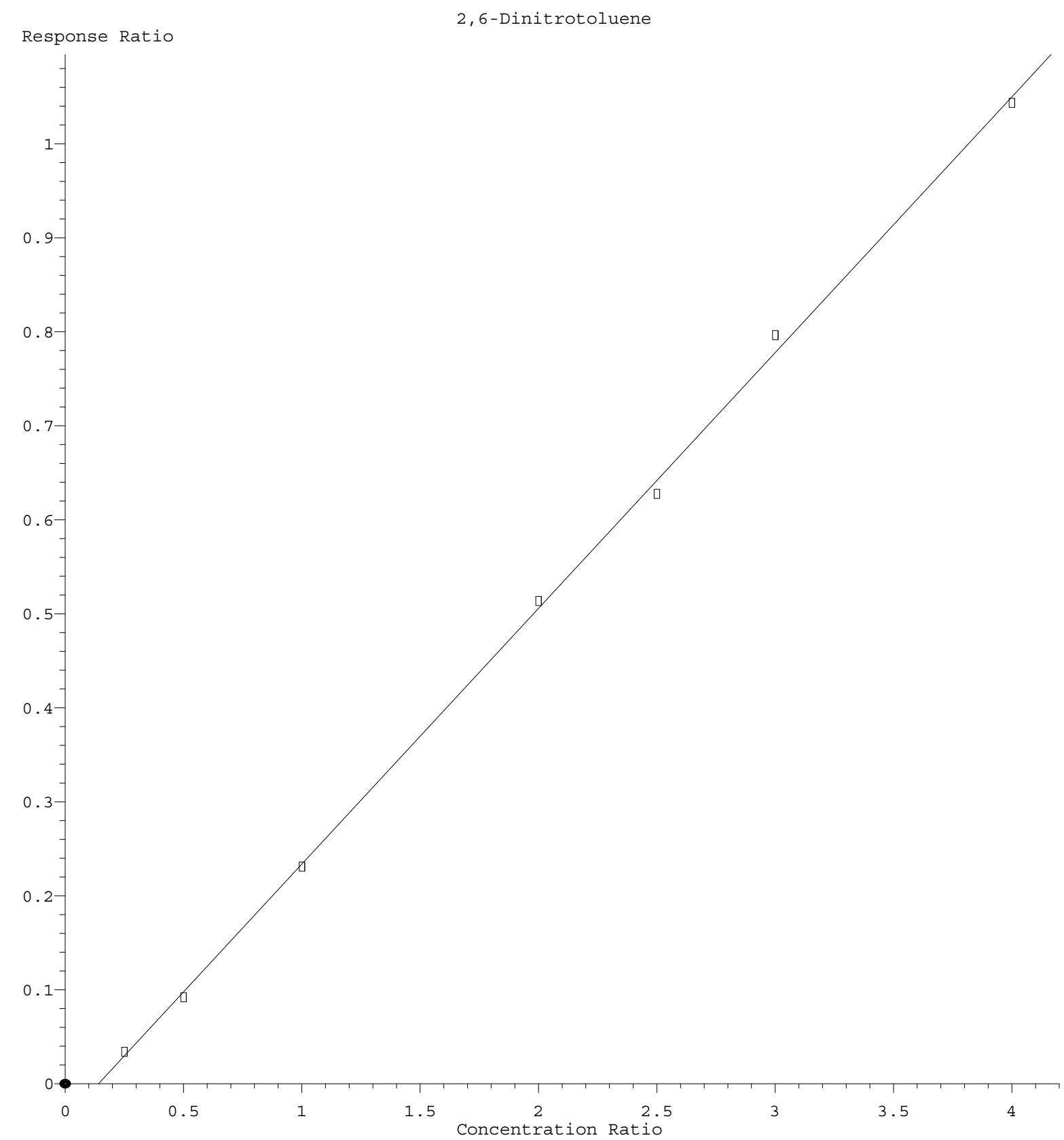
Response = 1.654e-001 * Amt - 3.762e-002
Coef of Det (r^2) = 0.997727 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025



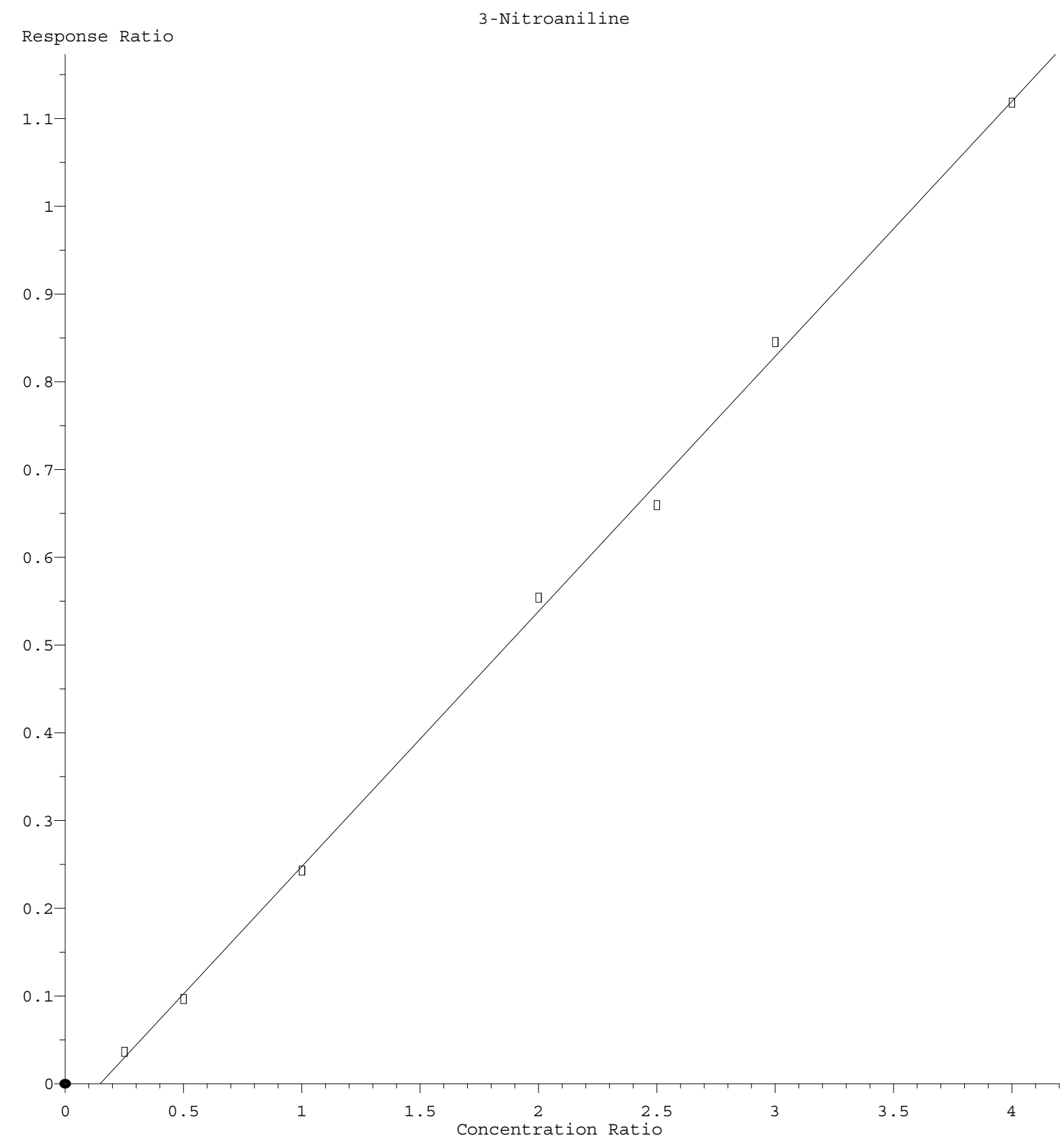
Response = 2.456e-001 * Amt - 9.444e-002
Coef of Det (r^2) = 0.997308 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025



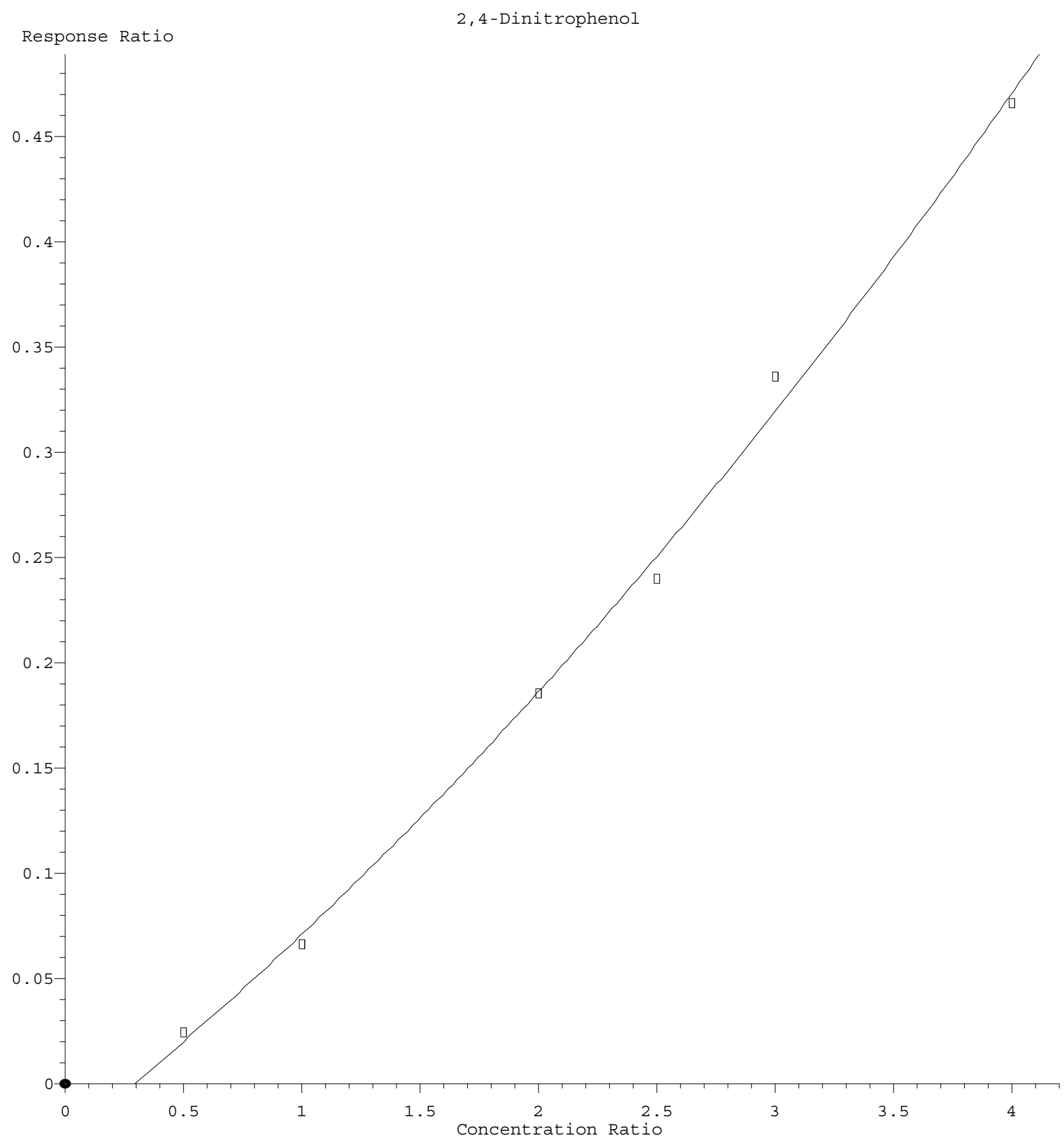
Response = 3.381e-001 * Amt - 7.336e-002
Coef of Det (r^2) = 0.998178 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025



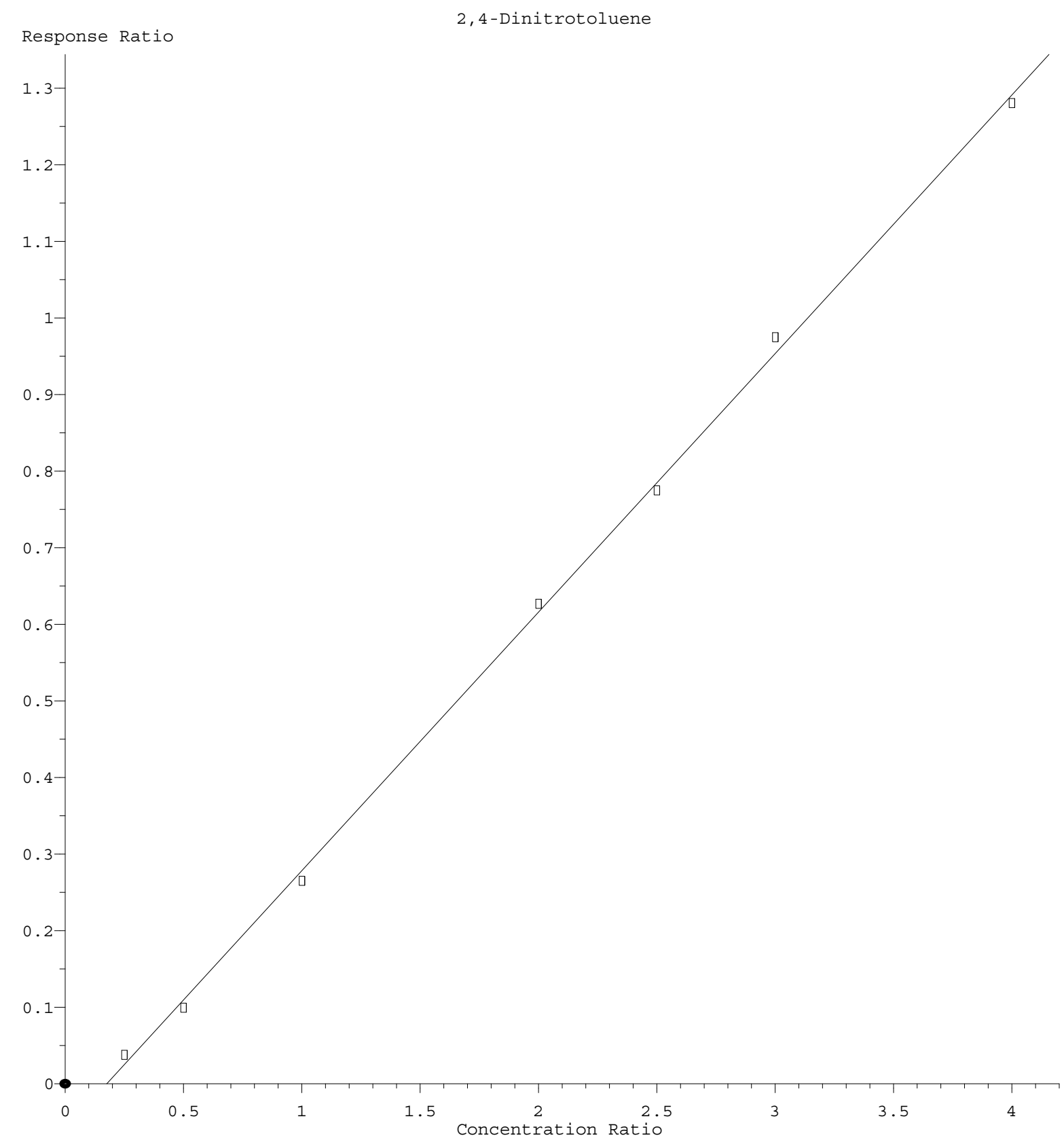
Response = 2.723e-001 * Amt - 3.850e-002
Coef of Det (r^2) = 0.999171 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025



Response = 2.909e-001 * Amt - 4.315e-002
Coef of Det (r^2) = 0.998769 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025

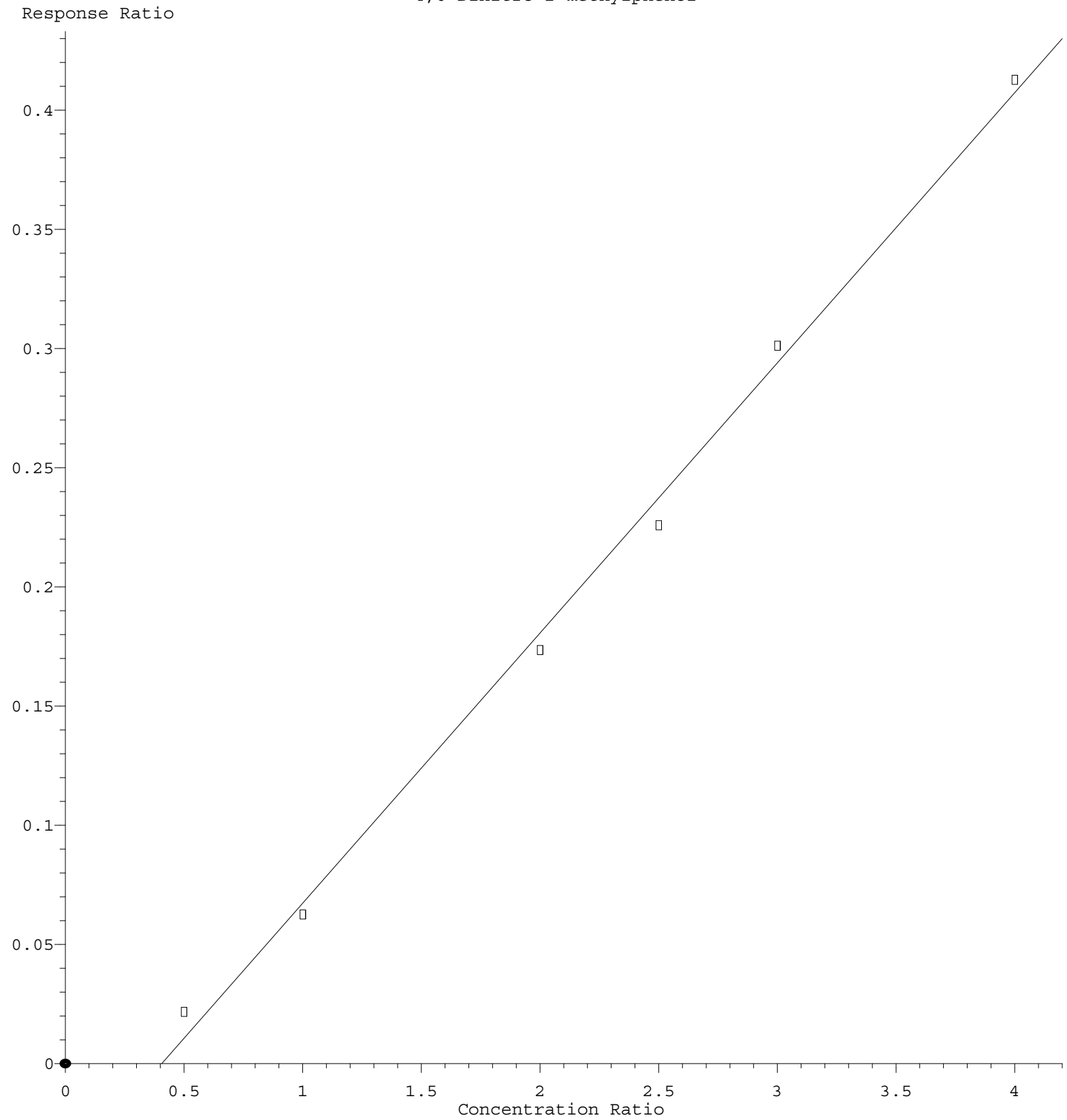


R = 8.979e-003 A*A + 8.829e-002 A - 2.630e-002
Coef of Det (r^2) = 0.996714 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025



Response = 3.378e-001 * Amt - 5.953e-002
Coef of Det (r^2) = 0.999067 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025

4,6-Dinitro-2-methylphenol



Response = 1.134e-001 * Amt - 4.606e-002
Coef of Det (r^2) = 0.996201 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141793.D
Acq On : 27 Feb 2025 15:17
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Feb 28 00:18:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 00:17:06 2025
Response via : Initial Calibration

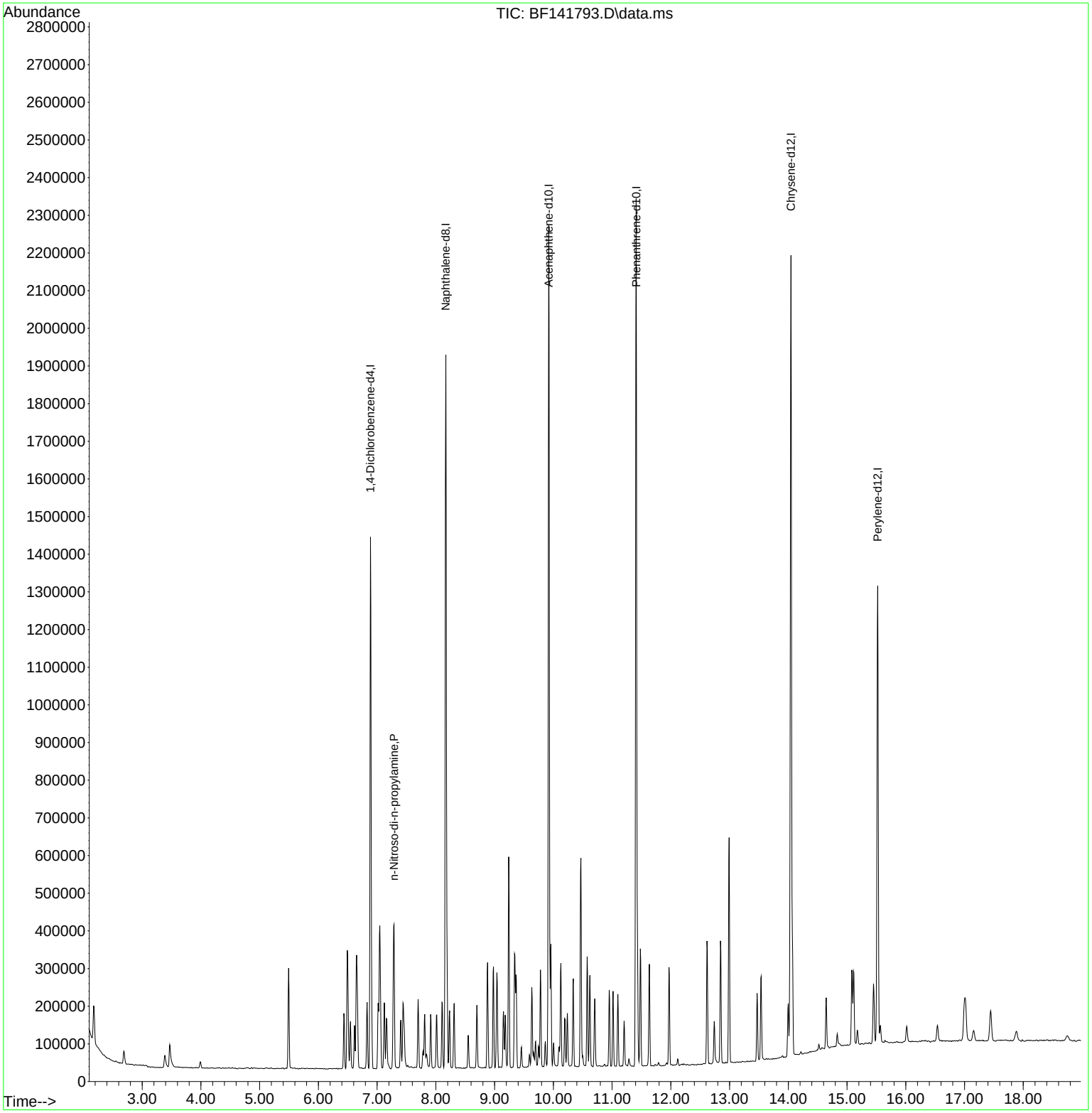
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	282413	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	1147711	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	650007	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	1119232	20.000	ng	0.00
76) Chrysene-d12	14.045	240	894958	20.000	ng	0.00
86) Perylene-d12	15.521	264	684814	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...	7.287	70	39992	2.936	ng	100

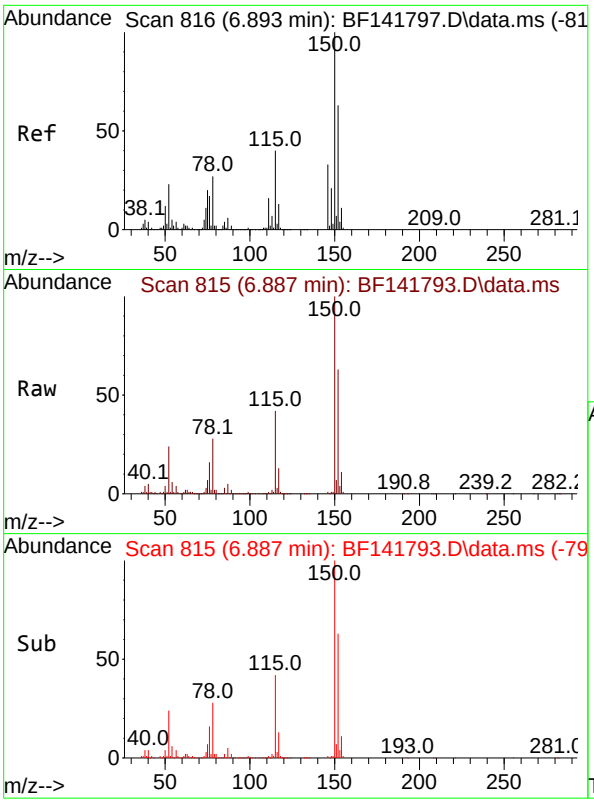
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141793.D
Acq On : 27 Feb 2025 15:17
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Feb 28 00:18:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 00:17:06 2025
Response via : Initial Calibration



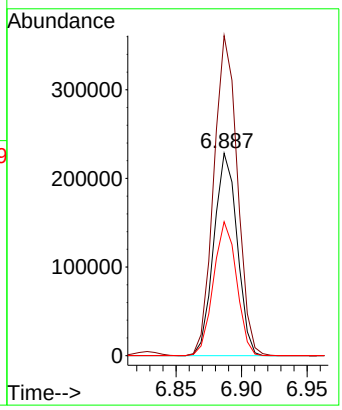


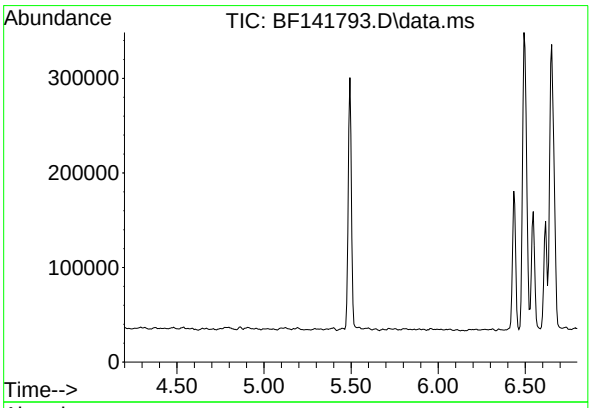
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 282413

Ion	Ratio	Lower	Upper
152	100		
150	158.1	127.5	191.3
115	66.2	51.4	77.2



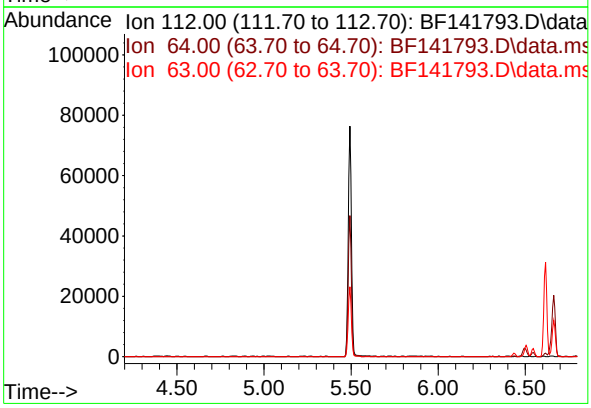


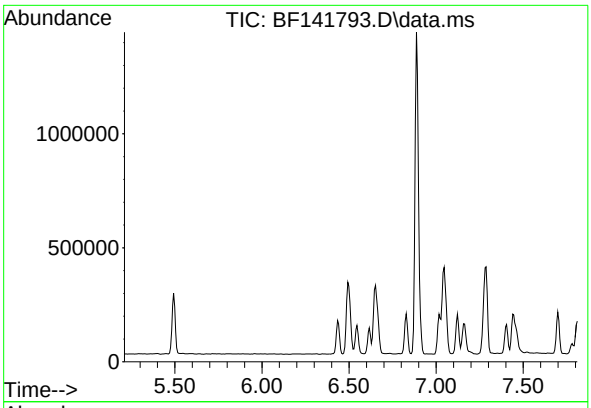
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.50 min

Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	64.1
63	32.8





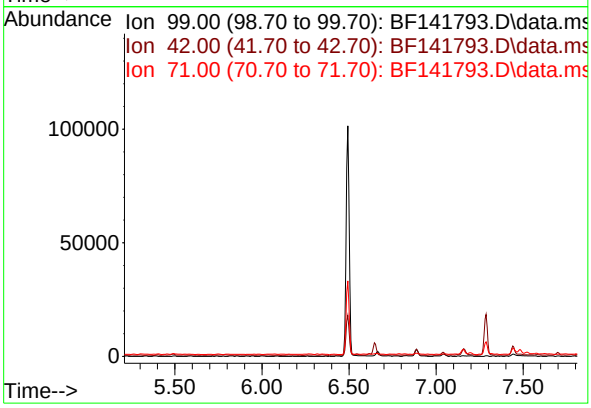
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.51 min

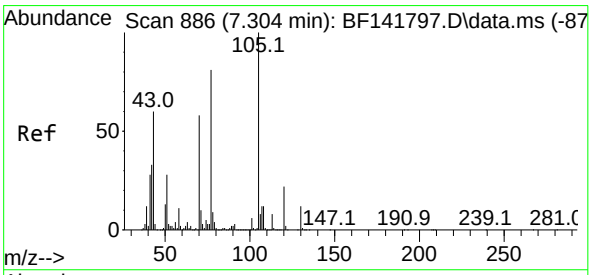
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

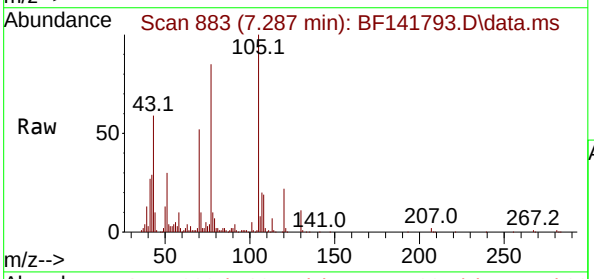
Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

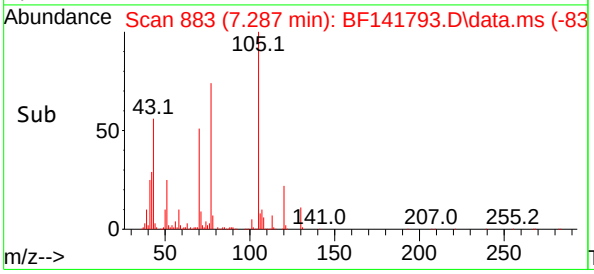
Tgt Ion: 99

Sig	Exp Ratio
99	100
42	19.0
71	35.2





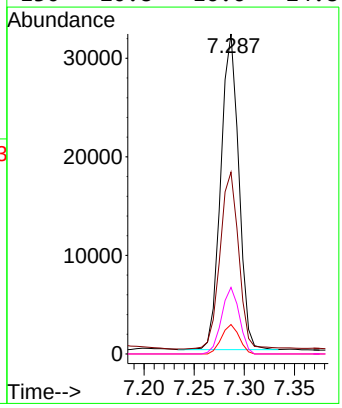


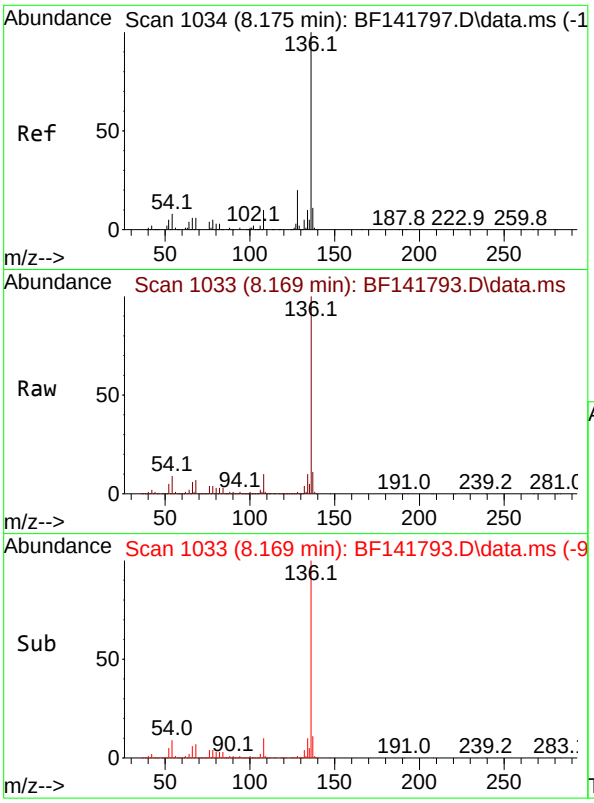


#19
n-Nitroso-di-n-propylamine
Concen: 2.936 ng
RT: 7.287 min Scan# 883
Delta R.T. -0.018 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Tgt Ion: 70 Resp: 39992

Ion	Ratio	Lower	Upper
70	100		
42	56.8	45.4	68.0
101	9.2	7.8	11.8
130	20.8	16.6	24.8



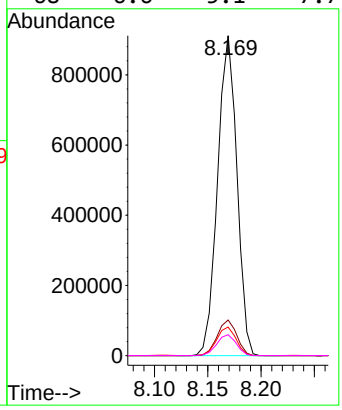


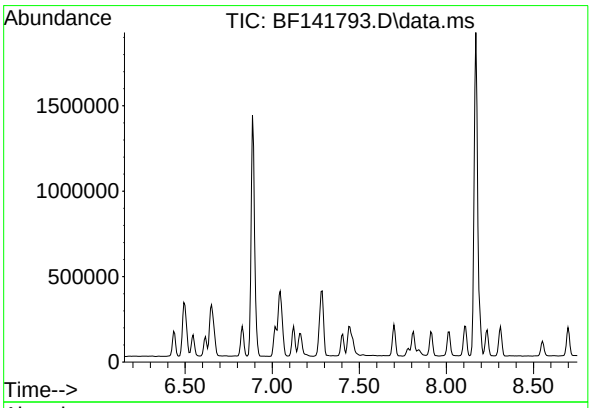
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 1147711

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	8.9	6.9	10.3
68	6.6	5.1	7.7



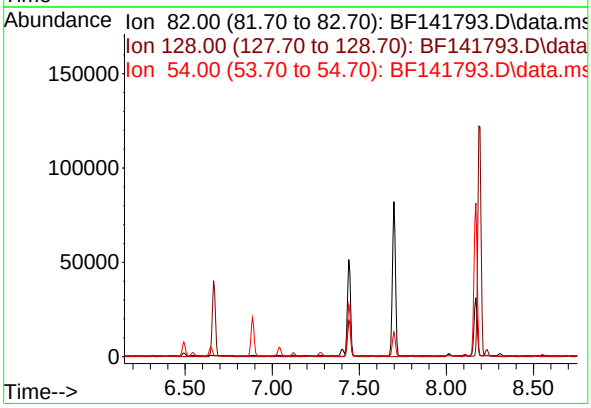


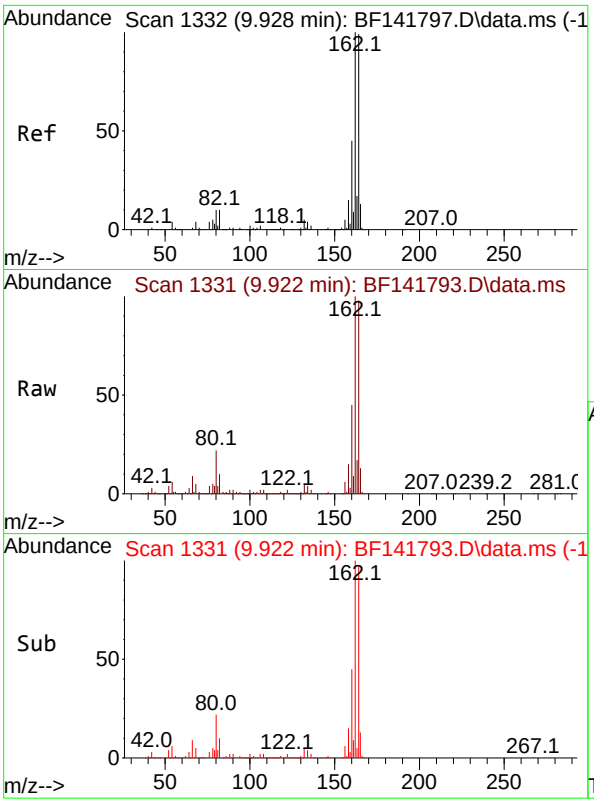
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 7.45 min

Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	41.9
54	53.4



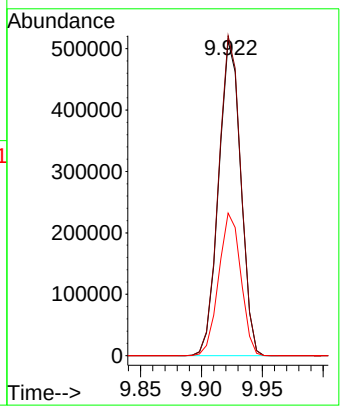


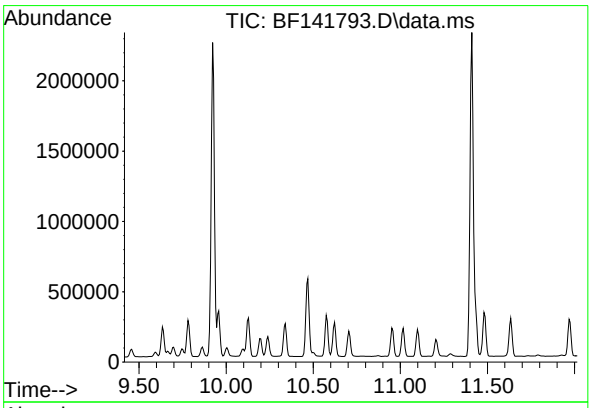
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 650007

Ion	Ratio	Lower	Upper
164	100		
162	101.6	80.6	120.8
160	45.3	36.3	54.5



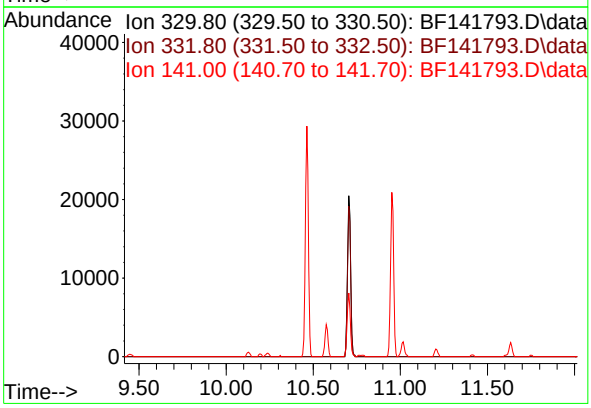


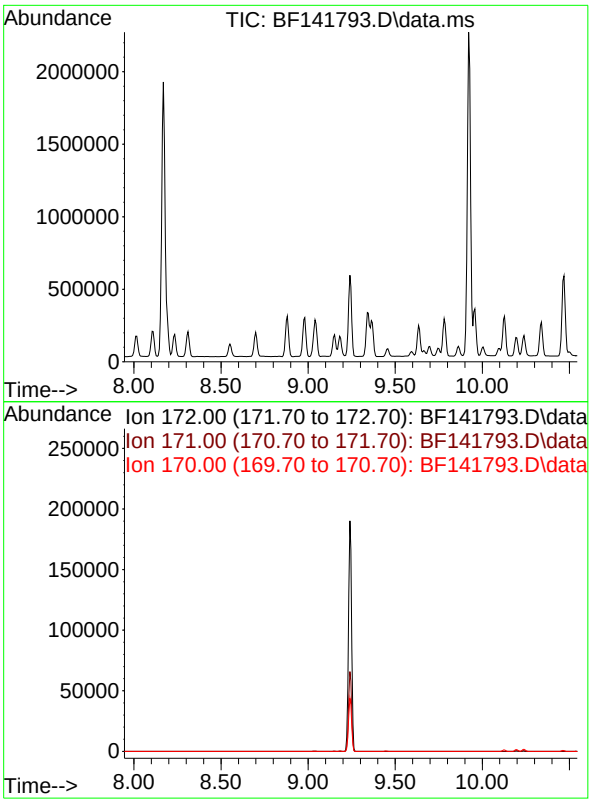
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.72 min

Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	95.8
141	36.2





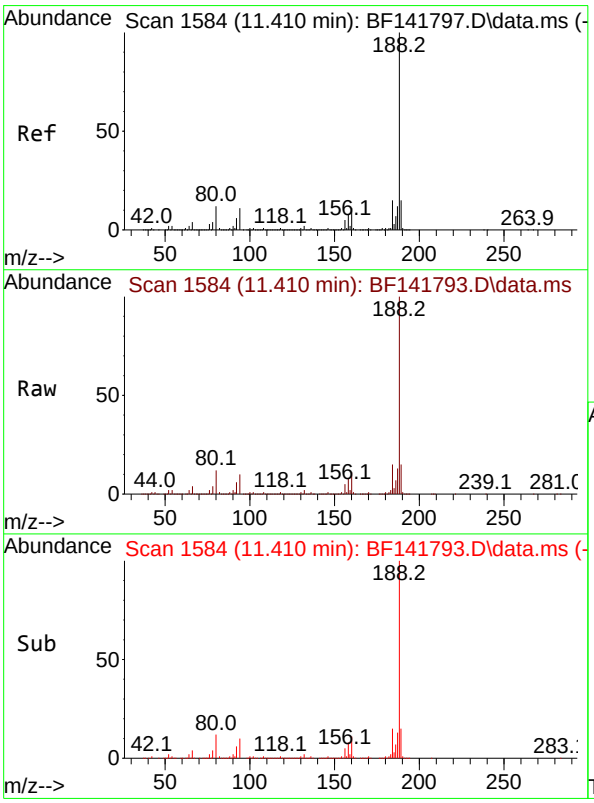
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.25 min

Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

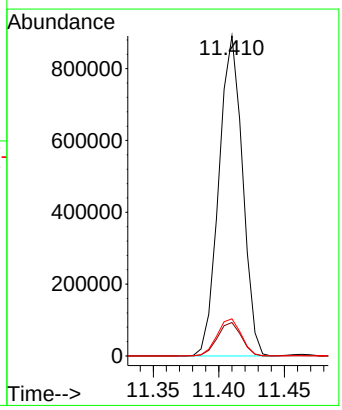
Sig	Exp Ratio
172	100
171	36.5
170	24.6

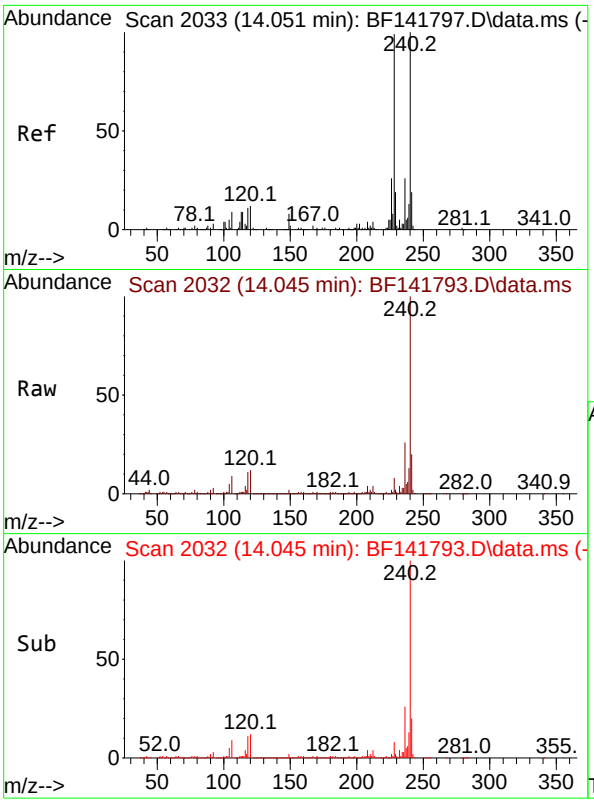


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Tgt Ion:188 Resp: 1119232

Ion	Ratio	Lower	Upper
188	100		
94	10.5	8.9	13.3
80	11.6	9.7	14.5



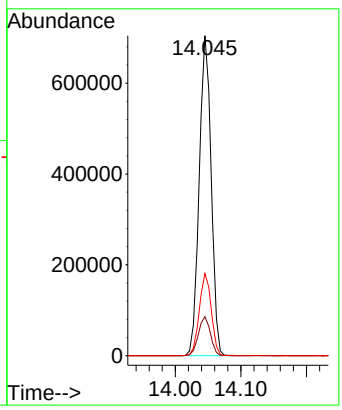


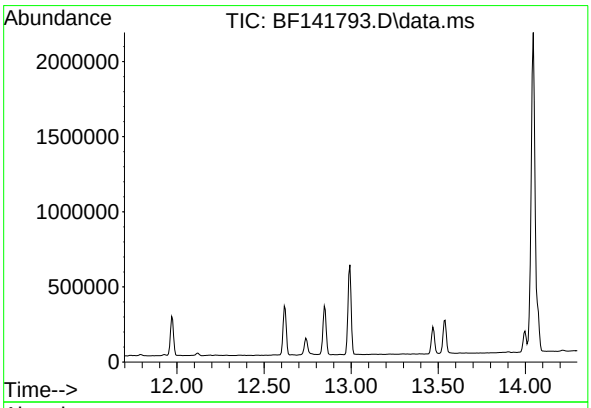
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 894958

Ion	Ratio	Lower	Upper
240	100		
120	12.2	9.7	14.5
236	25.7	21.0	31.4



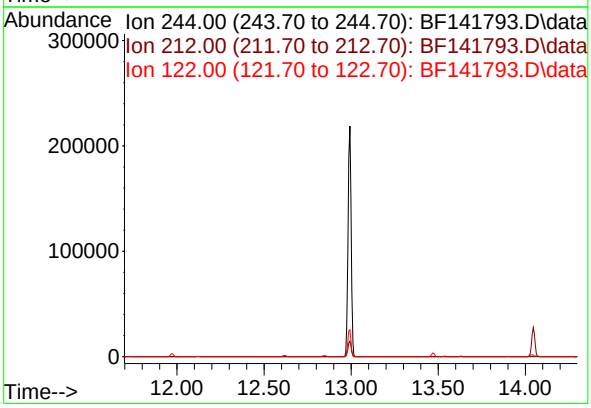


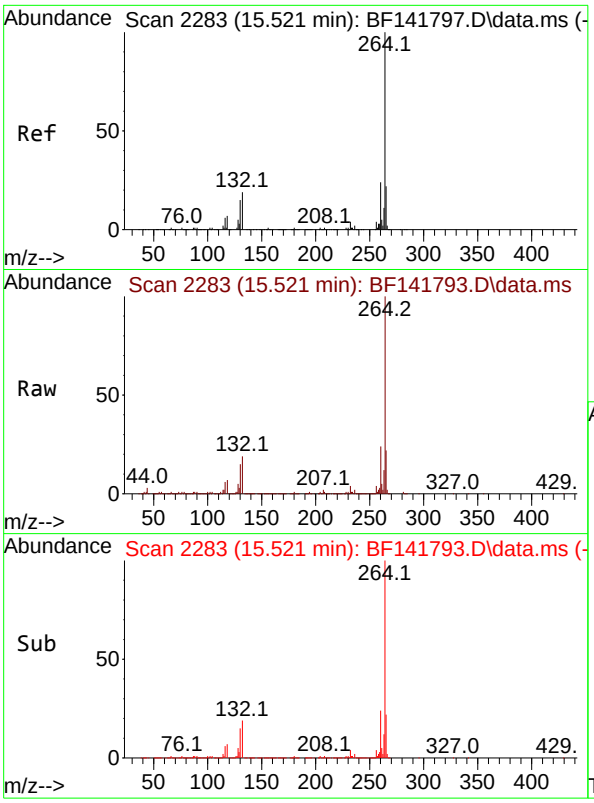
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 13.00 min

Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	7.5
122	11.3



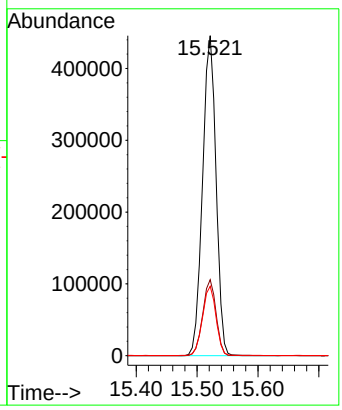


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 684814

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.9	28.3
265	21.7	17.4	26.0



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141794.D
Acq On : 27 Feb 2025 15:46
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 28 01:23:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	281554	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	1128074	20.000	ng		0.00
39) Acenaphthene-d10	9.922	164	643922	20.000	ng		0.00
64) Phenanthrene-d10	11.410	188	1101046	20.000	ng		0.00
76) Chrysene-d12	14.045	240	852555	20.000	ng		0.00
86) Perylene-d12	15.521	264	648925	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.493	112	189803	10.766	ng		0.00
7) Phenol-d6	6.493	99	246391	10.737	ng		-0.02
23) Nitrobenzene-d5	7.440	82	139940	7.929	ng		-0.01
42) 2,4,6-Tribromophenol	10.704	330	56406	9.331	ng		-0.01
45) 2-Fluorobiphenyl	9.239	172	464621	11.570	ng		0.00
79) Terphenyl-d14	12.992	244	532855	10.112	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.687	88	43124	5.391	ng		98
3) Pyridine	3.458	79	98722	4.960	ng		97
4) n-Nitrosodimethylamine	3.381	42	44659	4.663	ng	#	97
6) Aniline	6.546	93	122918m	5.180	ng		
8) 2-Chlorophenol	6.663	128	101533	5.324	ng		98
9) Benzaldehyde	6.434	77	81024	6.070	ng		99
10) Phenol	6.504	94	130523m	5.339	ng		
11) bis(2-Chloroethyl)ether	6.616	93	96953	5.187	ng		100
12) 1,3-Dichlorobenzene	6.828	146	108688	5.321	ng		99
13) 1,4-Dichlorobenzene	6.904	146	109382	5.315	ng		99
14) 1,2-Dichlorobenzene	7.057	146	105070	5.468	ng		98
15) Benzyl Alcohol	7.016	79	94845	5.172	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	150528	5.303	ng		100
17) 2-Methylphenol	7.122	107	81304	5.165	ng		97
18) Hexachloroethane	7.404	117	39359	5.110	ng		99
19) n-Nitroso-di-n-propyla...	7.287	70	79943	5.300	ng		99
20) 3+4-Methylphenols	7.275	107	106084	5.412	ng		93
22) Acetophenone	7.287	105	152122	5.537	ng	#	97
24) Nitrobenzene	7.463	77	76930	4.071	ng		96
25) Isophorone	7.698	82	197960	5.221	ng		99
26) 2-Nitrophenol	7.781	139	22354	6.947	ng		97
27) 2,4-Dimethylphenol	7.810	122	72631	5.211	ng		99
28) bis(2-Chloroethoxy)met...	7.910	93	130473	5.395	ng		98
29) 2,4-Dichlorophenol	8.016	162	79008	4.914	ng		99
30) 1,2,4-Trichlorobenzene	8.110	180	92399	5.244	ng		98
31) Naphthalene	8.192	128	321546	5.546	ng		98
33) 4-Chloroaniline	8.234	127	113407	5.335	ng		98
34) Hexachlorobutadiene	8.310	225	56205	5.134	ng		99
35) Caprolactam	8.557	113	24467	4.946	ng		95
36) 4-Chloro-3-methylphenol	8.698	107	93983	5.262	ng		97
37) 2-Methylnaphthalene	8.881	142	214971	5.653	ng		97
38) 1-Methylnaphthalene	8.981	142	207097	5.676	ng		99
40) 1,2,4,5-Tetrachloroben...	9.045	216	98100	5.275	ng		97
41) Hexachlorocyclopentadiene	9.034	237	34990	4.508	ng		98
43) 2,4,6-Trichlorophenol	9.151	196	57097	4.753	ng		98
44) 2,4,5-Trichlorophenol	9.187	196	55979	4.706	ng		98

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141794.D
Acq On : 27 Feb 2025 15:46
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 28 01:23:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	1,1'-Biphenyl	9.345	154	272648	5.563	ng		97
47)	2-Chloronaphthalene	9.369	162	194915	5.388	ng		97
48)	2-Nitroaniline	9.457	65	24463	6.586	ng		98
49)	Acenaphthylene	9.781	152	297257	5.481	ng		98
50)	Dimethylphthalate	9.639	163	230425	5.344	ng		99
51)	2,6-Dinitrotoluene	9.698	165	21902	5.327	ng		98
52)	Acenaphthene	9.957	154	195912	5.353	ng		97
53)	3-Nitroaniline	9.863	138	23458	5.471	ng	#	83
55)	Dibenzofuran	10.128	168	297756	5.590	ng		96
56)	4-Nitrophenol	10.004	139	20838	3.272	ng		91
57)	2,4-Dinitrotoluene	10.098	165	24255	5.755	ng	#	96
58)	Fluorene	10.469	166	230713	5.782	ng		99
59)	2,3,4,6-Tetrachlorophenol	10.239	232	50417	4.873	ng		99
60)	Diethylphthalate	10.339	149	230060	5.322	ng		98
61)	4-Chlorophenyl-phenyle...	10.463	204	111169	5.561	ng		98
62)	4-Nitroaniline	10.469	138	24006	3.260	ng	#	84
63)	Azobenzene	10.622	77	248519	5.460	ng		98
66)	n-Nitrosodiphenylamine	10.575	169	193204	5.344	ng		99
67)	4-Bromophenyl-phenylether	10.951	248	66312	5.156	ng		99
68)	Hexachlorobenzene	11.016	284	69598	5.125	ng		100
69)	Atrazine	11.098	200	58634	5.897	ng		98
70)	Pentachlorophenol	11.204	266	37669	4.373	ng		99
71)	Phenanthrene	11.433	178	326529	5.544	ng		99
72)	Anthracene	11.481	178	331149	5.610	ng		98
73)	Carbazole	11.633	167	295693	5.673	ng		98
74)	Di-n-butylphthalate	11.969	149	367349	5.560	ng		99
75)	Fluoranthene	12.622	202	353684	5.861	ng		97
78)	Pyrene	12.845	202	361938	4.903	ng		98
80)	Butylbenzylphthalate	13.469	149	116439	4.341	ng		99
81)	Benzo(a)anthracene	14.033	228	291373	5.174	ng		98
82)	3,3'-Dichlorobenzidine	13.998	252	86483	5.353	ng		97
83)	Chrysene	14.069	228	277632	5.348	ng		99
84)	Bis(2-ethylhexyl)phtha...	14.033	149	149689	4.482	ng		99
85)	Di-n-octyl phthalate	14.645	149	192390	3.848	ng		99
87)	Indeno(1,2,3-cd)pyrene	16.998	276	178035	4.309	ng		99
88)	Benzo(b)fluoranthene	15.086	252	233991	5.294	ng		98
89)	Benzo(k)fluoranthene	15.116	252	206614	5.499	ng		100
90)	Benzo(a)pyrene	15.451	252	180486	5.091	ng		99
91)	Dibenzo(a,h)anthracene	17.021	278	146279	4.337	ng		97
92)	Benzo(g,h,i)perylene	17.445	276	145755	4.218	ng		99

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

ICAL Form

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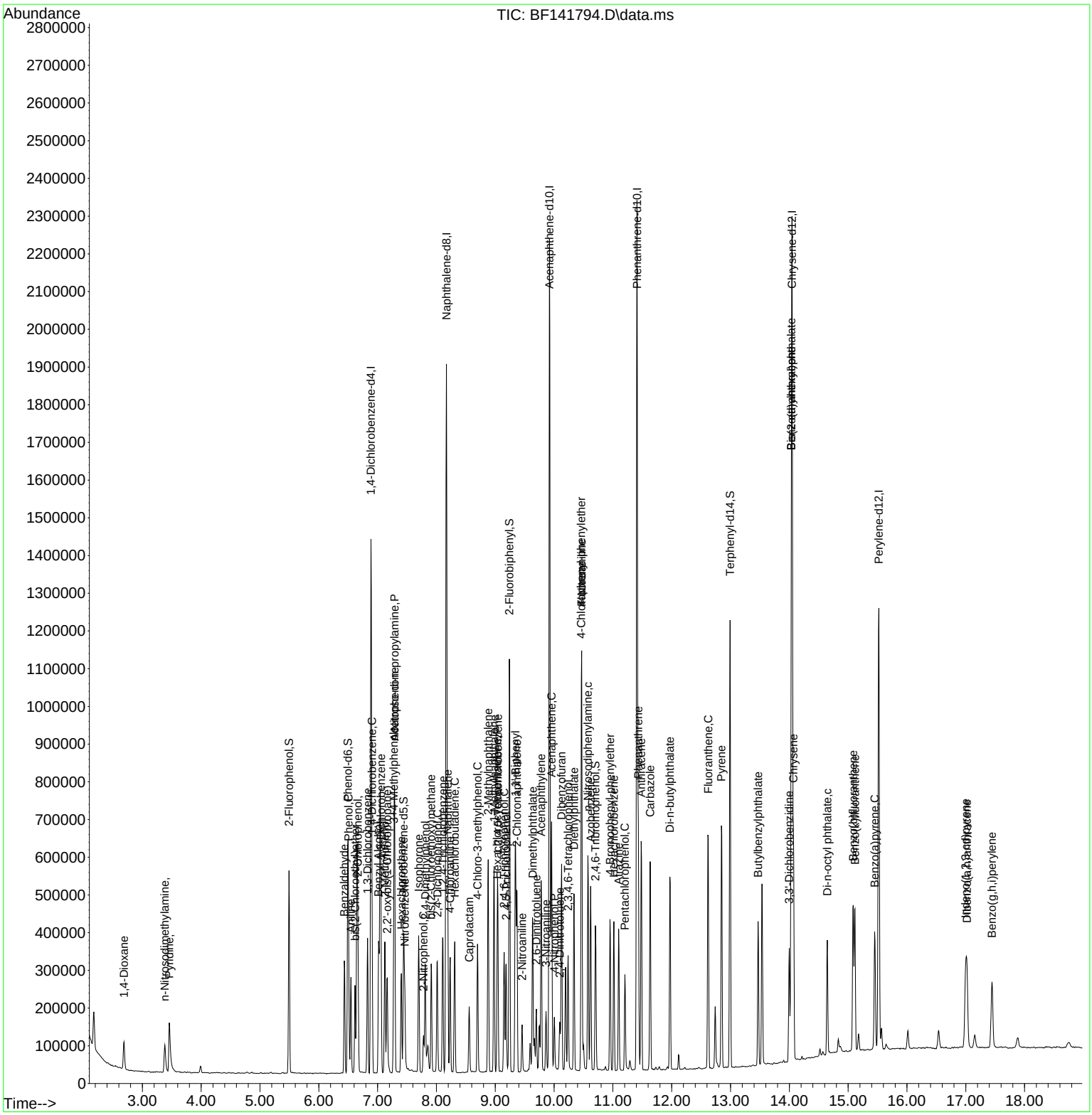
Data File : BF141794.D
Acq On : 27 Feb 2025 15:46
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

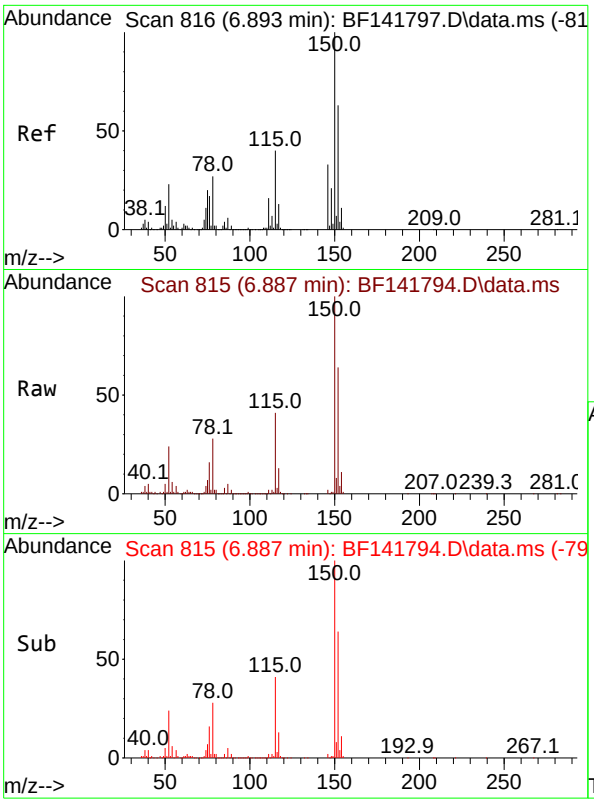
Quant Time: Feb 28 01:23:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

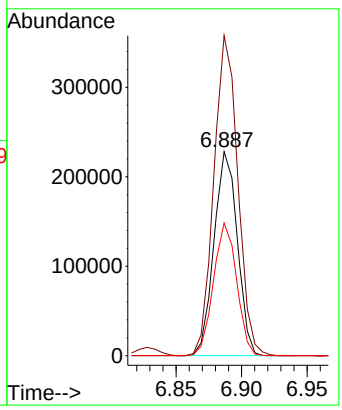




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:152 Resp: 28155

Ion	Ratio	Lower	Upper
152	100		
150	156.8	127.5	191.3
115	65.0	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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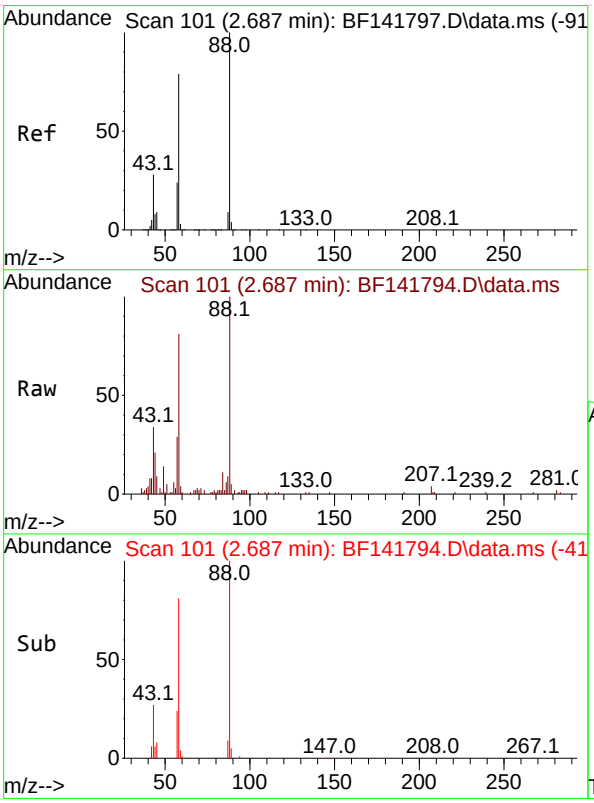
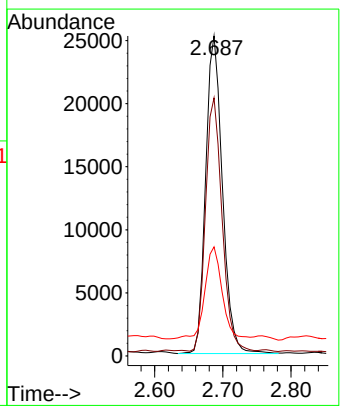
Supervised By :mohammad ahmed 02/28/2025

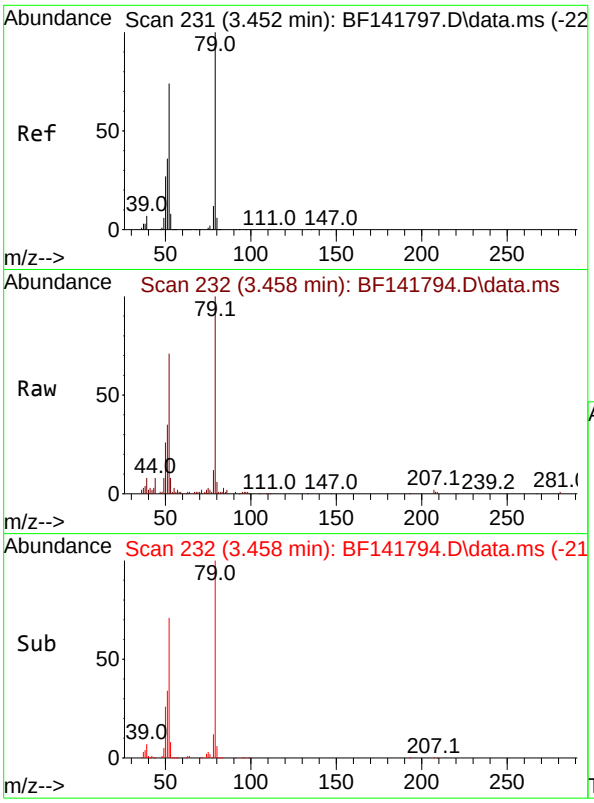


#2
1,4-Dioxane
Concen: 5.391 ng
RT: 2.687 min Scan# 101
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 88 Resp: 43124

Ion	Ratio	Lower	Upper
88	100		
58	78.5	63.9	95.9
43	29.6	23.0	34.6





#3
Pyridine
Concen: 4.960 ng
RT: 3.458 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 79 Resp: 9872

Ion	Ratio	Lower	Upper
79	100		
52	70.9	59.0	88.4
51	35.5	29.0	43.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

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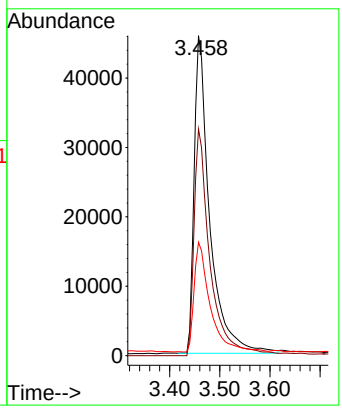
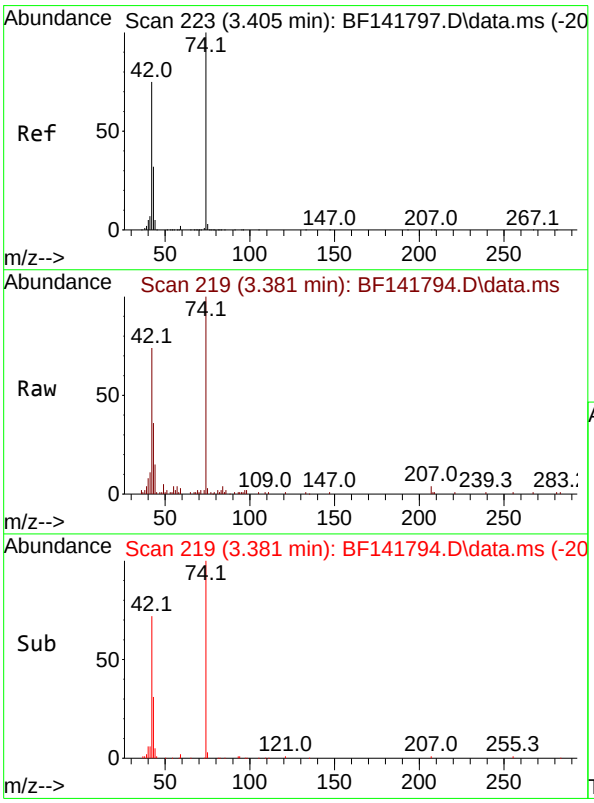
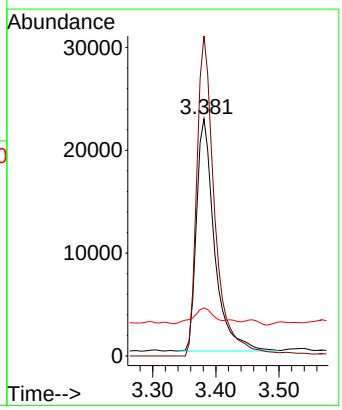


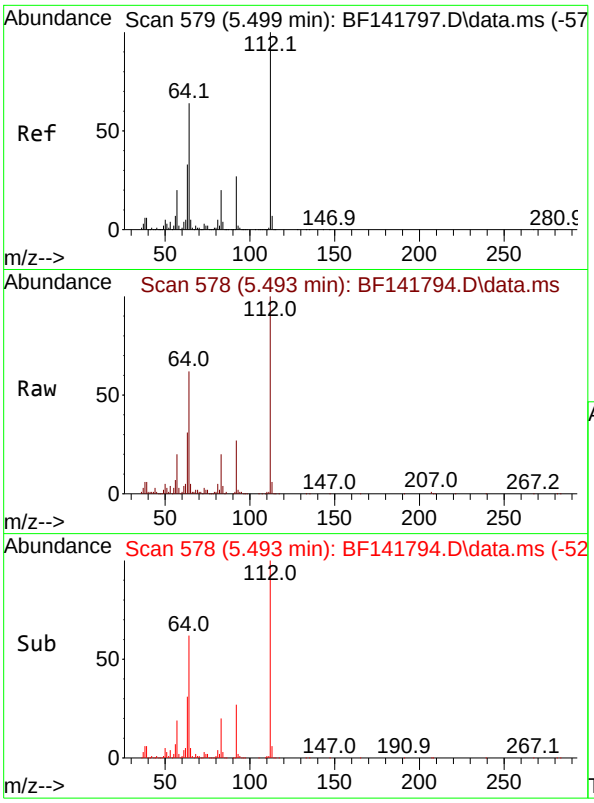


#4
n-Nitrosodimethylamine
Concen: 4.663 ng
RT: 3.381 min Scan# 219
Delta R.T. -0.024 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 42 Resp: 44659

Ion	Ratio	Lower	Upper
42	100		
74	134.9	107.1	160.7
44	20.2	6.6	9.8#

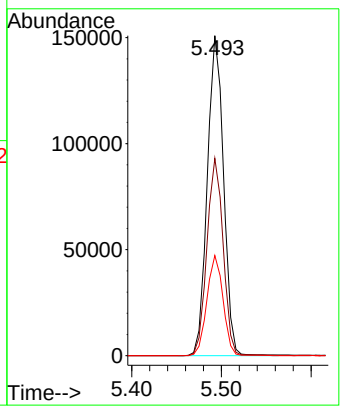




#5
2-Fluorophenol
Concen: 10.766 ng
RT: 5.493 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:112 Resp: 18980

Ion	Ratio	Lower	Upper
112	100		
64	61.7	51.3	76.9
63	31.3	26.2	39.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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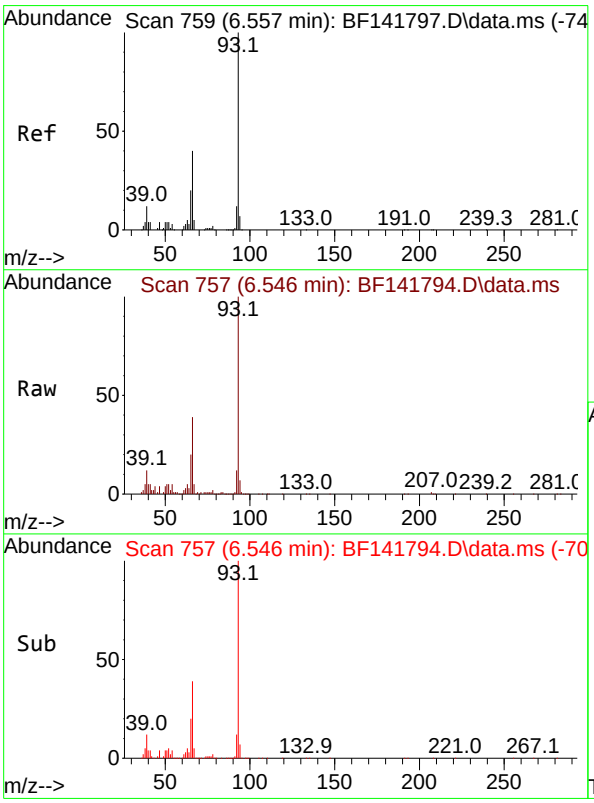
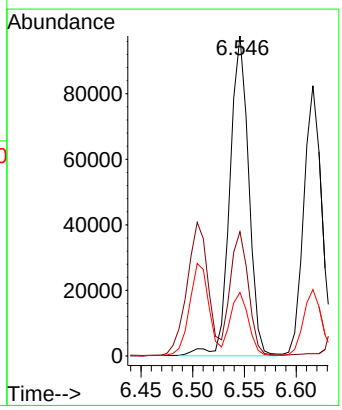
Supervised By :mohammad ahmed 02/28/2025

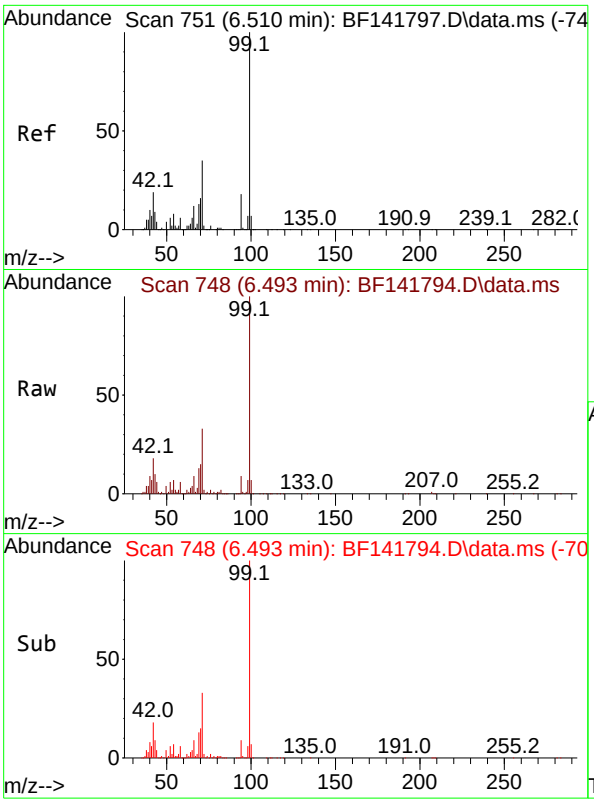


#6
Aniline
Concen: 5.180 ng m
RT: 6.546 min Scan# 757
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 93 Resp: 122918

Ion	Ratio	Lower	Upper
93	100		
66	38.8	32.3	48.5
65	19.9	15.9	23.9

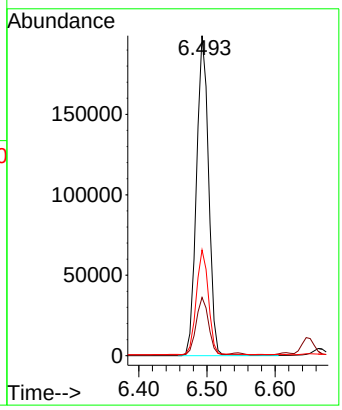




#7
Phenol-d6
Concen: 10.737 ng
RT: 6.493 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 99 Resp: 24639

Ion	Ratio	Lower	Upper
99	100		
42	18.2	15.2	22.8
71	33.0	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
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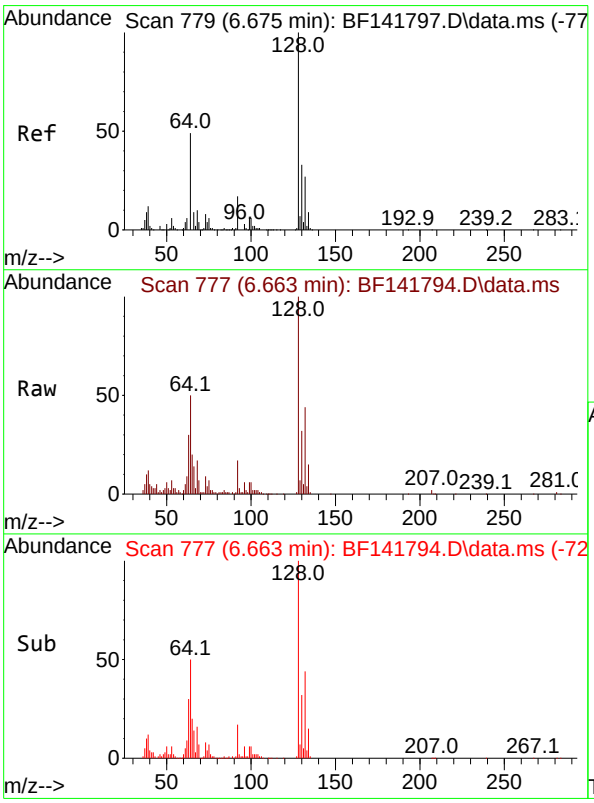
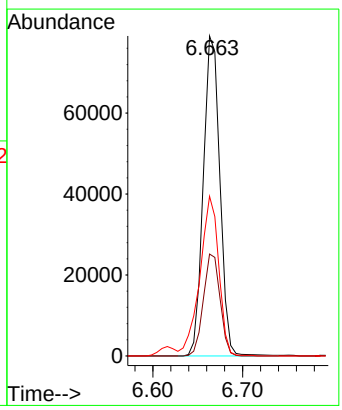
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

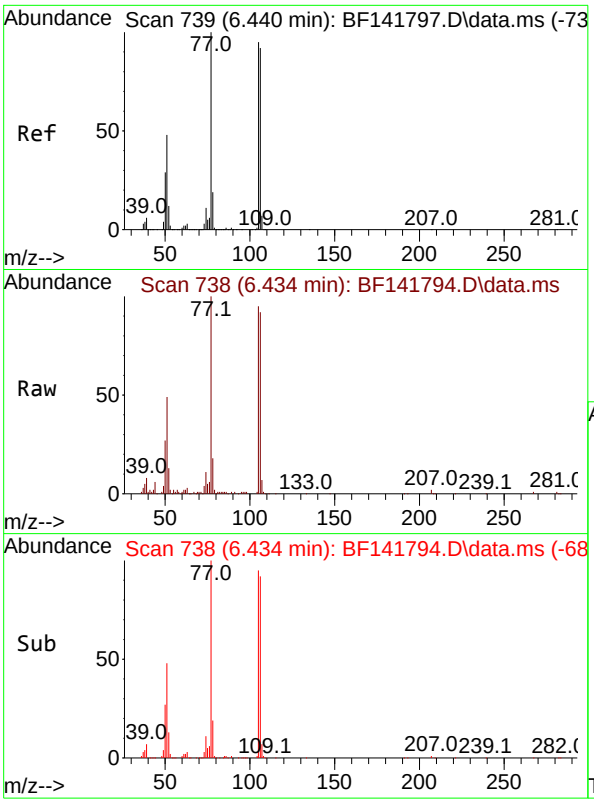


#8
2-Chlorophenol
Concen: 5.324 ng
RT: 6.663 min Scan# 777
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:128 Resp: 101533

Ion	Ratio	Lower	Upper
128	100		
130	31.8	12.6	52.6
64	49.9	31.1	71.1

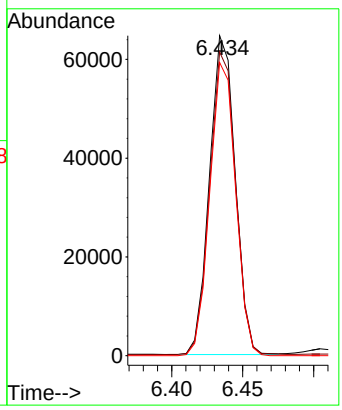




#9
Benzaldehyde
Concen: 6.070 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 77 Resp: 8102

Ion	Ratio	Lower	Upper
77	100		
105	94.9	75.3	115.3
106	91.6	72.3	112.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
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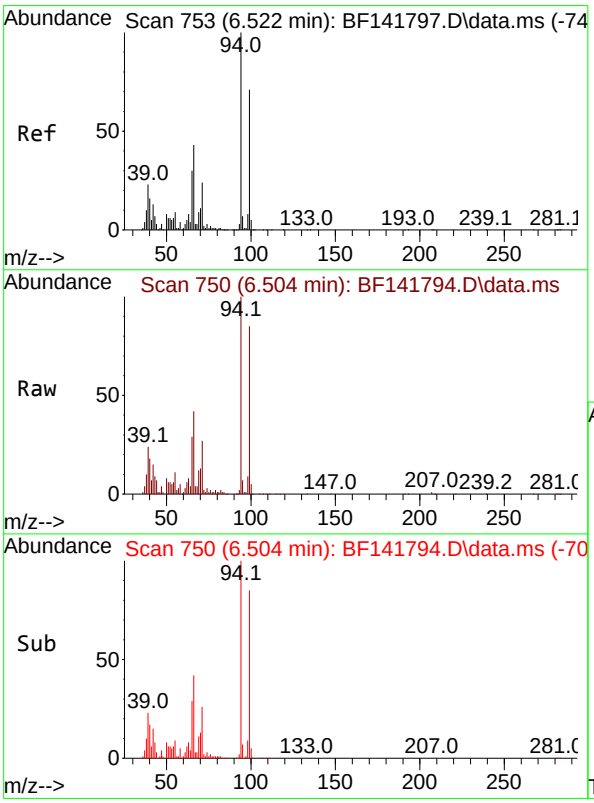
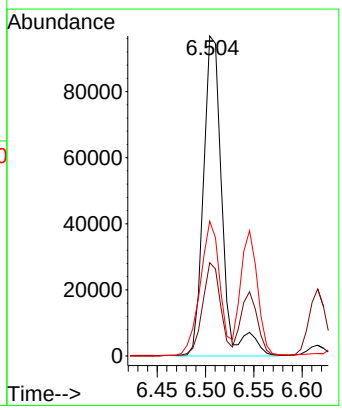
Supervised By :mohammad ahmed 02/28/2025

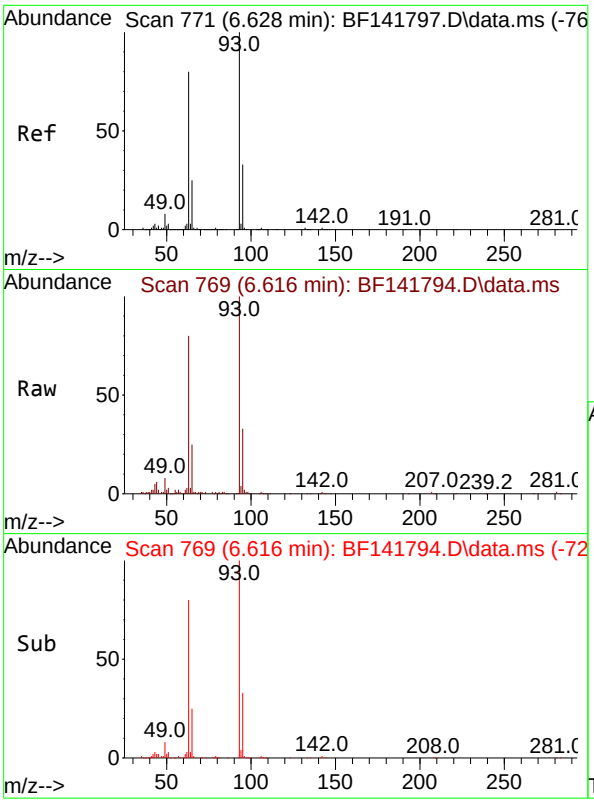


#10
Phenol
Concen: 5.339 ng m
RT: 6.504 min Scan# 750
Delta R.T. -0.018 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 94 Resp: 130523

Ion	Ratio	Lower	Upper
94	100		
65	29.1	10.2	50.2
66	42.1	23.2	63.2

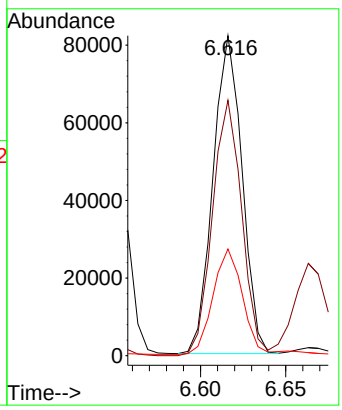




#11
bis(2-Chloroethyl)ether
Concen: 5.187 ng
RT: 6.616 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 93 Resp: 9695

Ion	Ratio	Lower	Upper
93	100		
63	79.8	59.3	99.3
95	33.3	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
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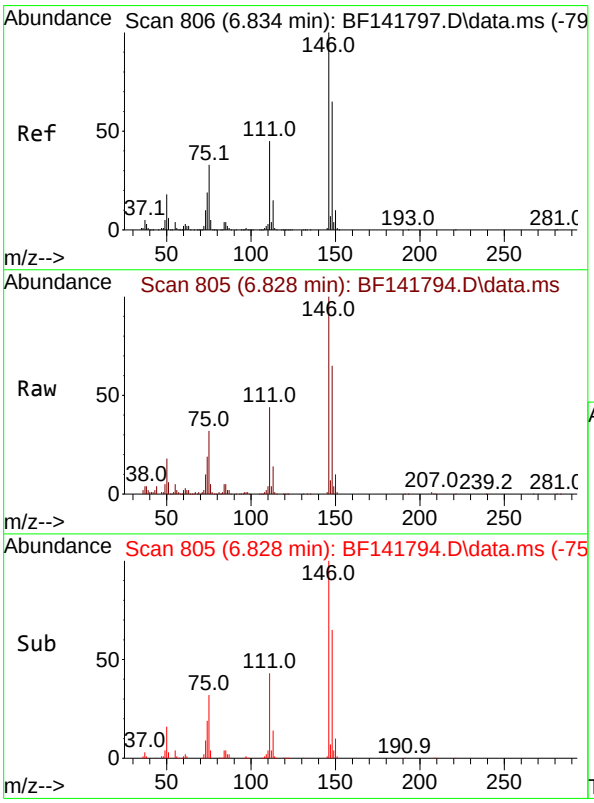
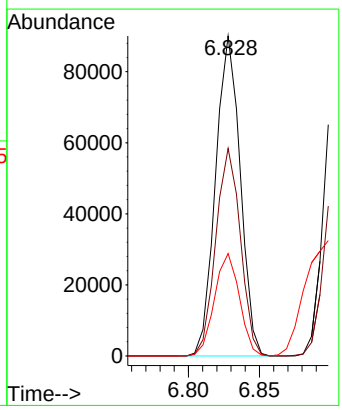
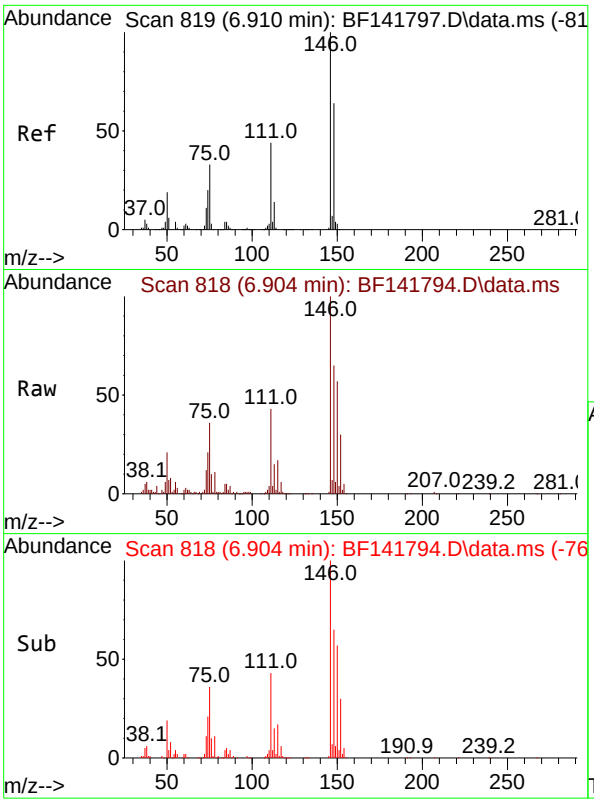


#12
1,3-Dichlorobenzene
Concen: 5.321 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:146 Resp: 108688

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.8	77.6
75	32.0	26.2	39.4

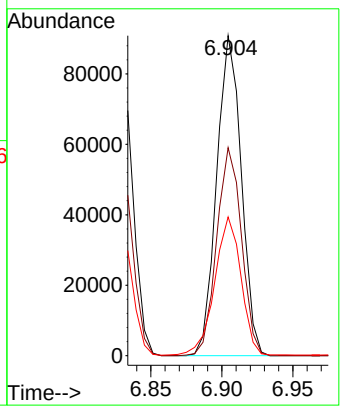




#13
1,4-Dichlorobenzene
Concen: 5.315 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:146 Resp: 10938

Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.4	77.2
111	43.4	35.5	53.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
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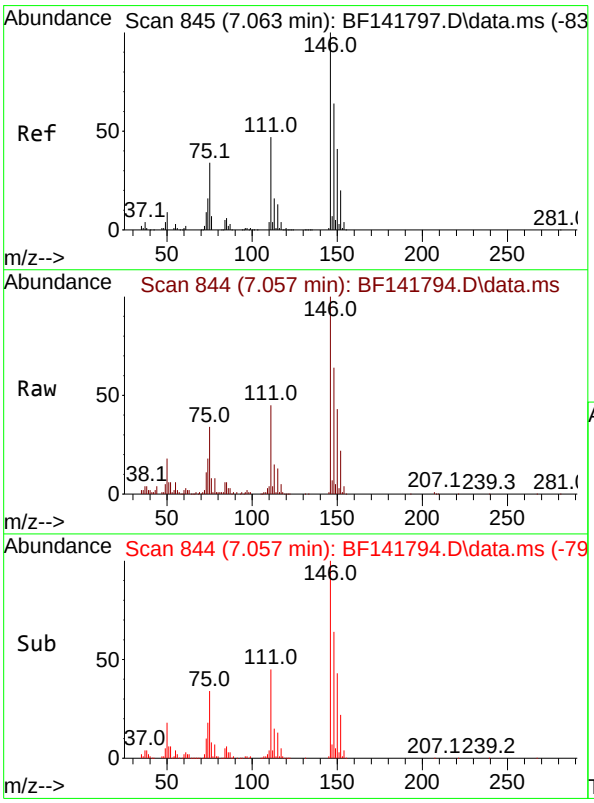
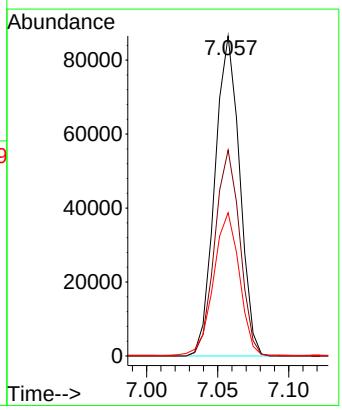
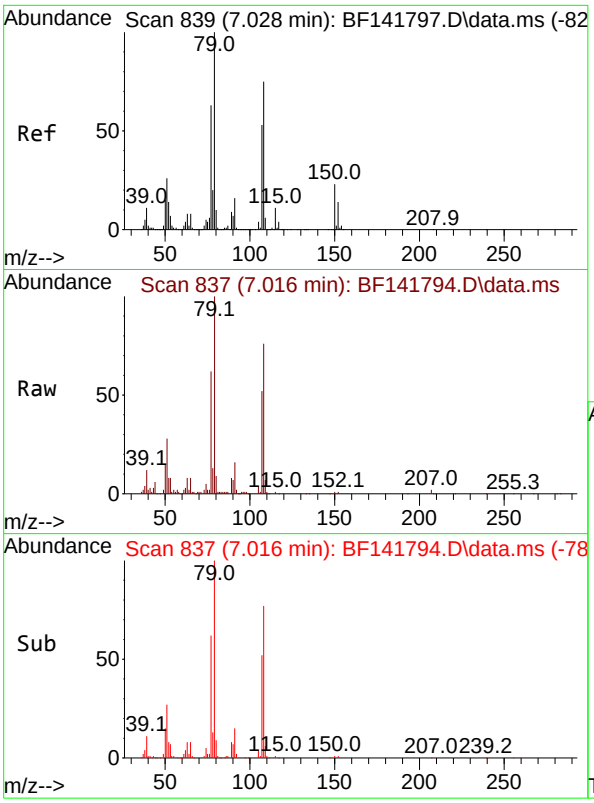


#14
1,2-Dichlorobenzene
Concen: 5.468 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:146 Resp: 105070

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.2	76.8
111	44.8	37.8	56.6





#15
Benzyl Alcohol
Concen: 5.172 ng
RT: 7.016 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 79 Resp: 9484

Ion	Ratio	Lower	Upper
79	100		
108	76.3	60.2	90.2
77	61.8	50.2	75.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
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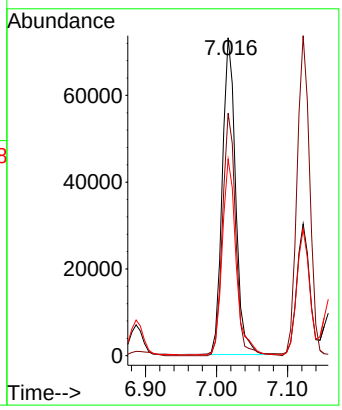
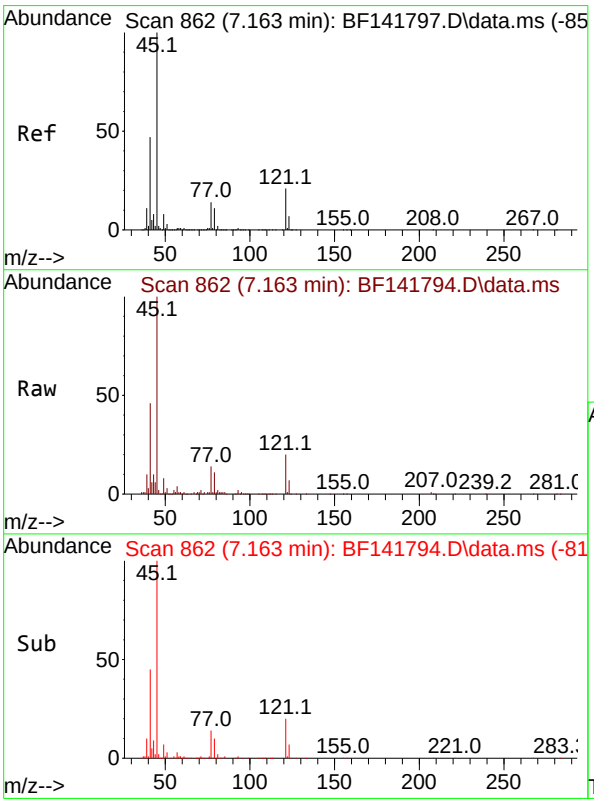
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

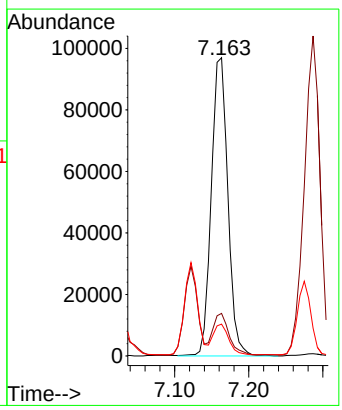


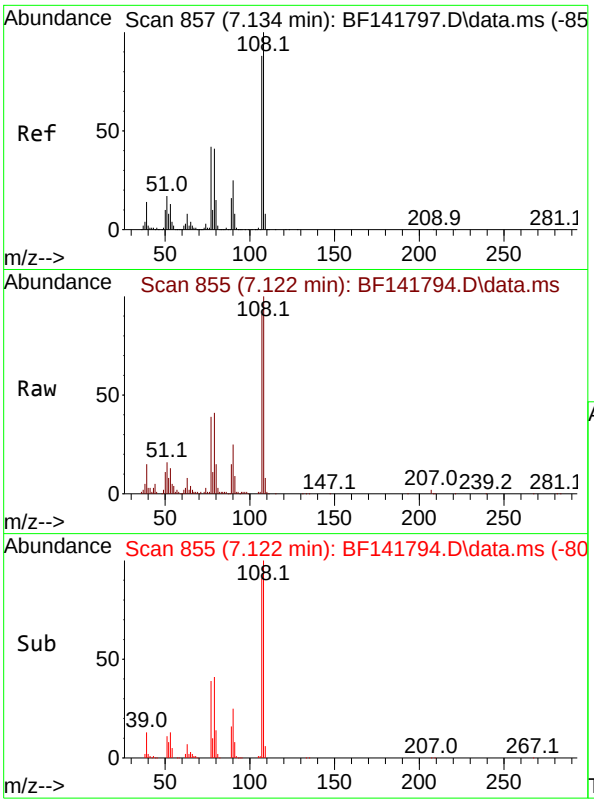


#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.303 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 45 Resp: 150528

Ion	Ratio	Lower	Upper
45	100		
77	14.3	0.0	34.4
79	10.7	0.0	30.9

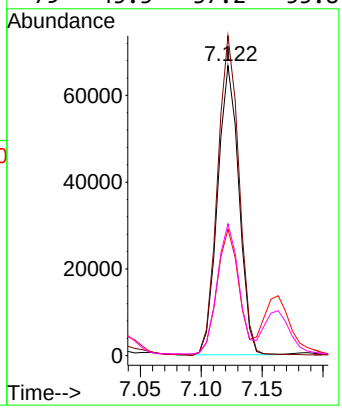




#17
2-Methylphenol
Concen: 5.165 ng
RT: 7.122 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:107 Resp: 8130

Ion	Ratio	Lower	Upper
107	100		
108	110.4	90.6	135.8
77	43.6	37.7	56.5
79	45.5	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
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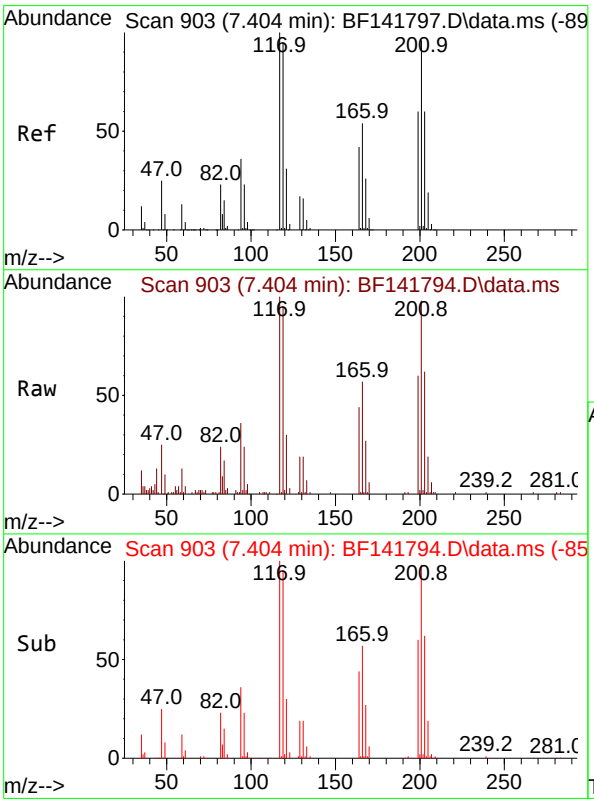
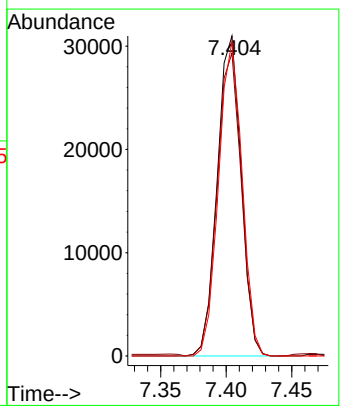
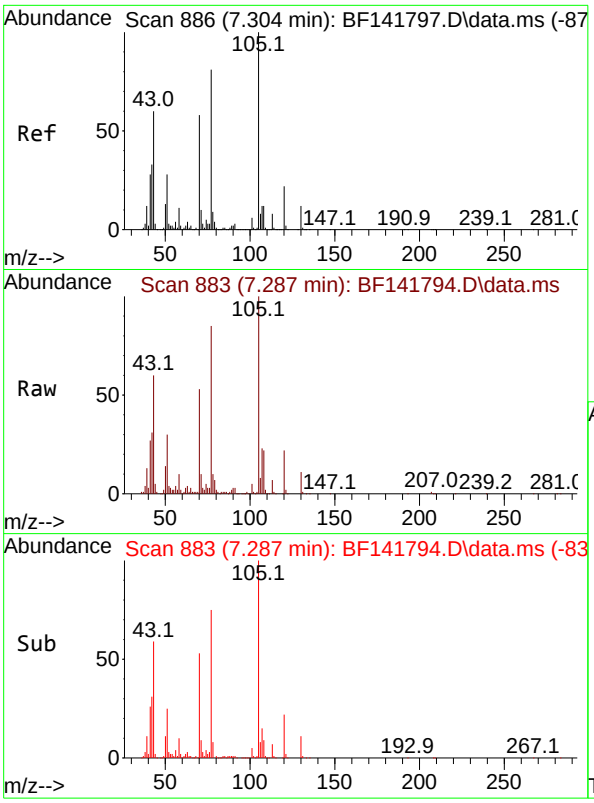


#18
Hexachloroethane
Concen: 5.110 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:117 Resp: 39359

Ion	Ratio	Lower	Upper
117	100		
119	94.7	75.8	113.8
201	98.2	76.7	115.1

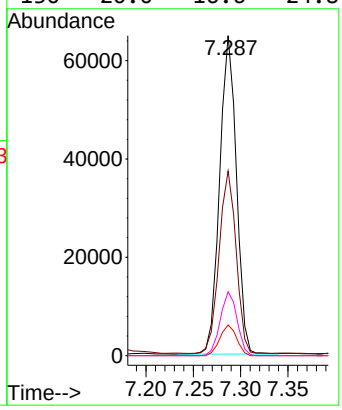




#19
n-Nitroso-di-n-propylamine
Concen: 5.300 ng
RT: 7.287 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 70 Resp: 7994

Ion	Ratio	Lower	Upper
70	100		
42	57.7	45.4	68.0
101	9.6	7.8	11.8
130	20.0	16.6	24.8



Instrument :
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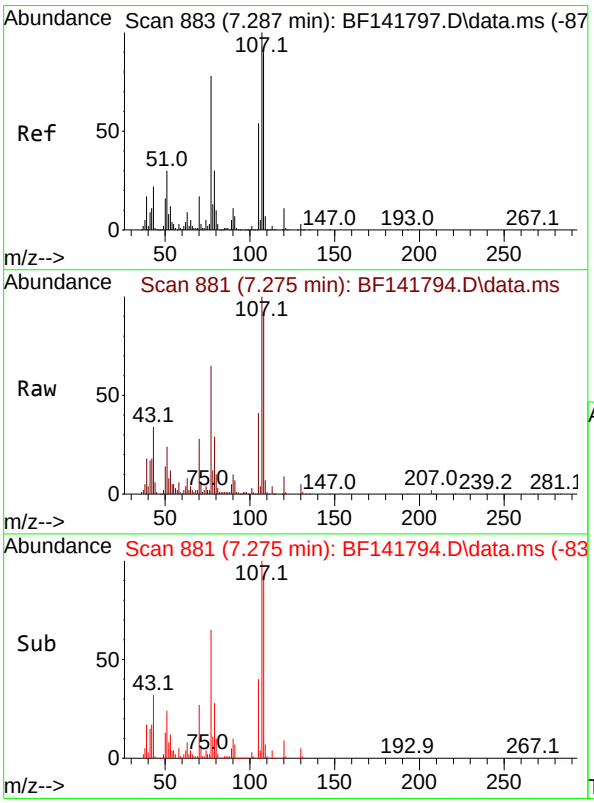
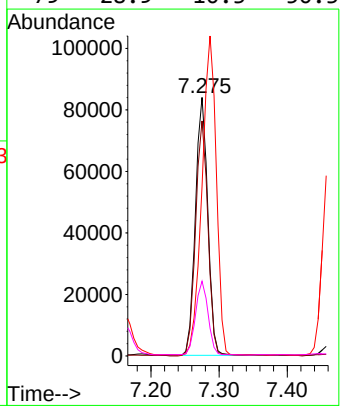
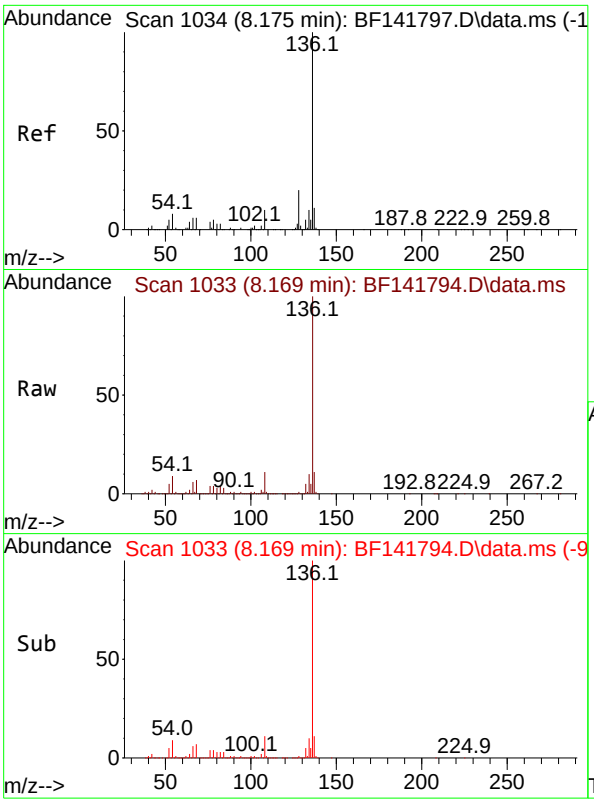


#20
3+4-Methylphenols
Concen: 5.412 ng
RT: 7.275 min Scan# 881
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:107 Resp: 106084

Ion	Ratio	Lower	Upper
107	100		
108	90.9	69.7	109.7
77	65.5	58.3	98.3
79	28.9	10.3	50.3

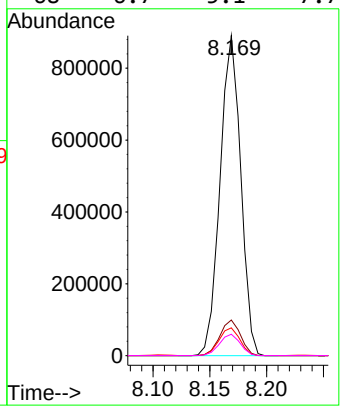




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:136 Resp: 112807

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	8.7	6.9	10.3
68	6.7	5.1	7.7



Instrument :
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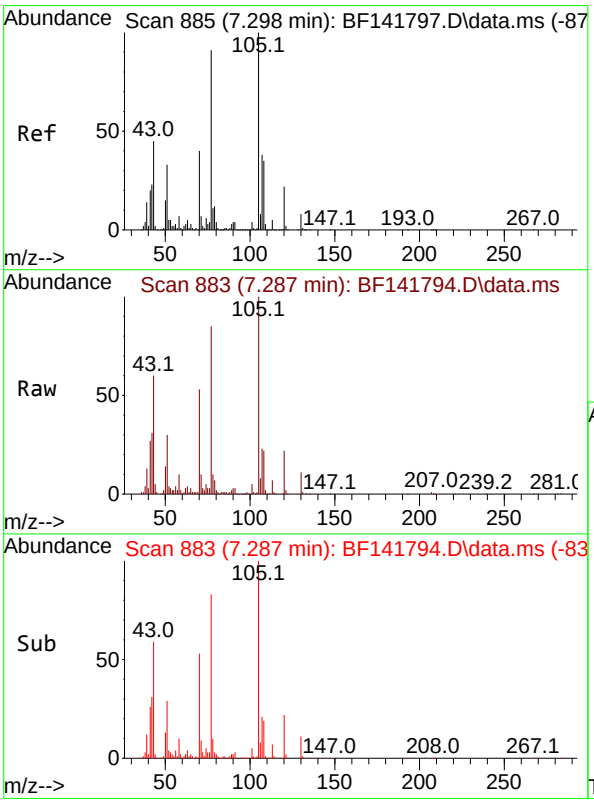
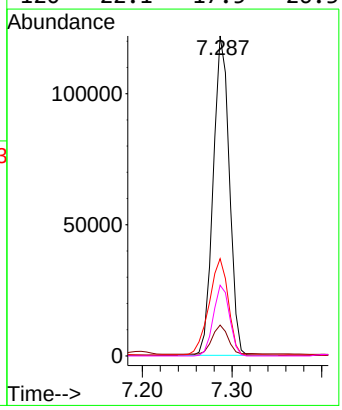
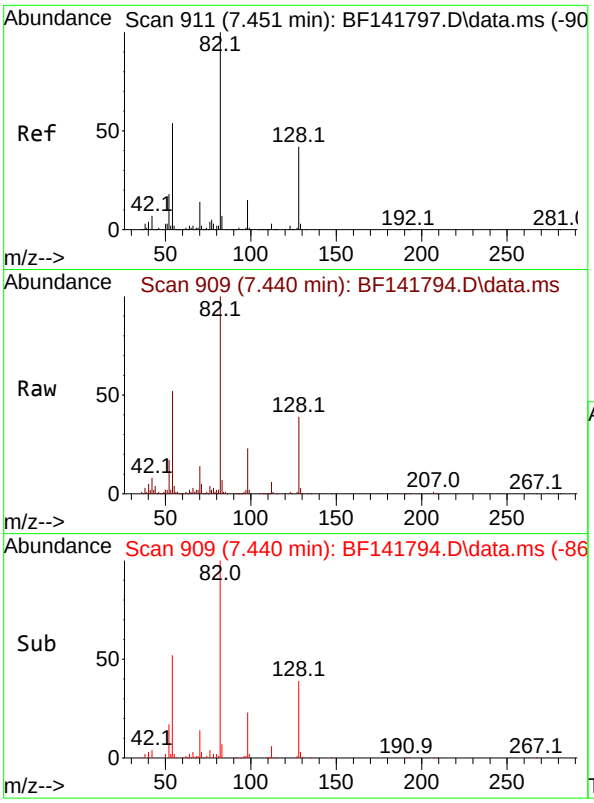


#22
Acetophenone
Concen: 5.537 ng
RT: 7.287 min Scan# 883
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:105 Resp: 152122

Ion	Ratio	Lower	Upper
105	100		
71	9.7	5.4	8.0#
51	30.4	26.1	39.1
120	22.1	17.5	26.3





#23
Nitrobenzene-d5
Concen: 7.929 ng
RT: 7.440 min Scan# 9(
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 82 Resp: 13994(

Ion	Ratio	Lower	Upper
82	100		
128	38.6	33.5	50.3
54	52.3	42.7	64.1

Instrument :
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ClientSampleId :
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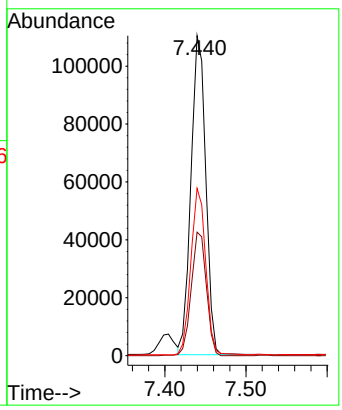
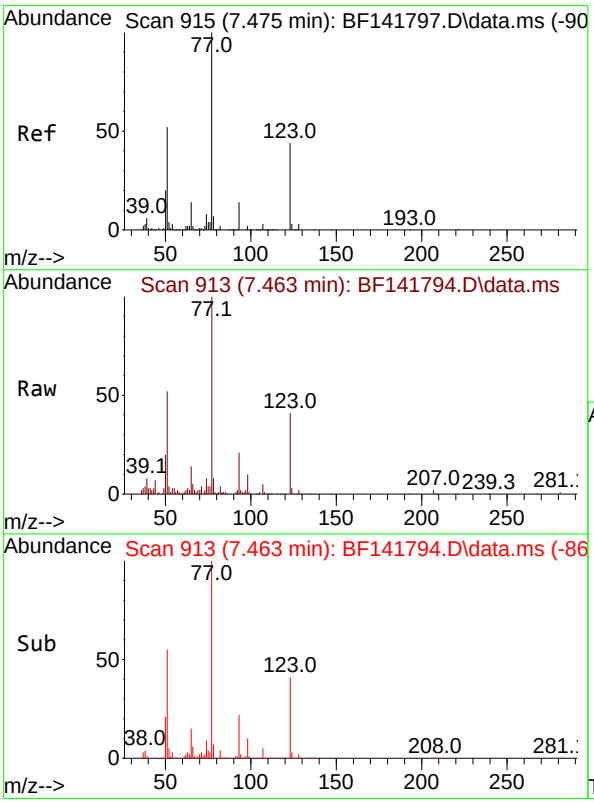
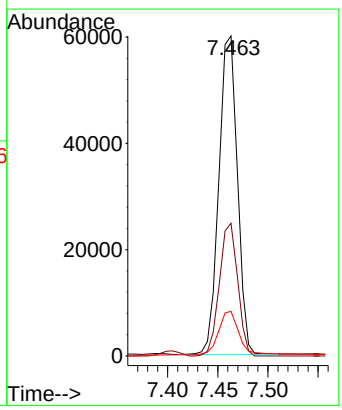


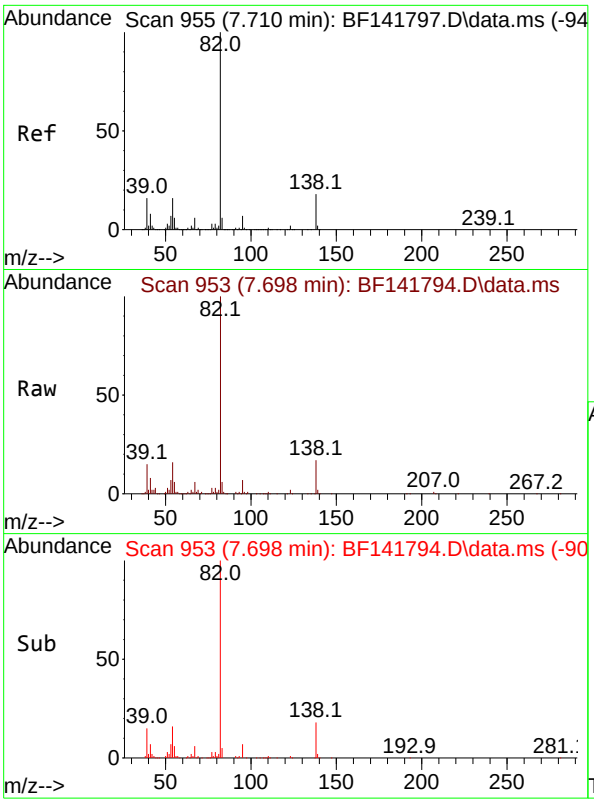


#24
Nitrobenzene
Concen: 4.071 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 77 Resp: 76930

Ion	Ratio	Lower	Upper
77	100		
123	41.5	35.8	53.8
65	13.9	11.2	16.8

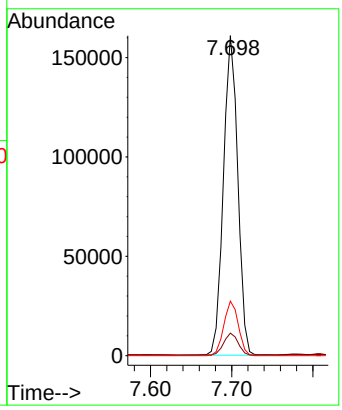




#25
Isophorone
Concen: 5.221 ng
RT: 7.698 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 82 Resp: 19796

Ion	Ratio	Lower	Upper
82	100		
95	7.1	5.8	8.8
138	17.0	14.0	21.0



Instrument :
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ClientSampleId :
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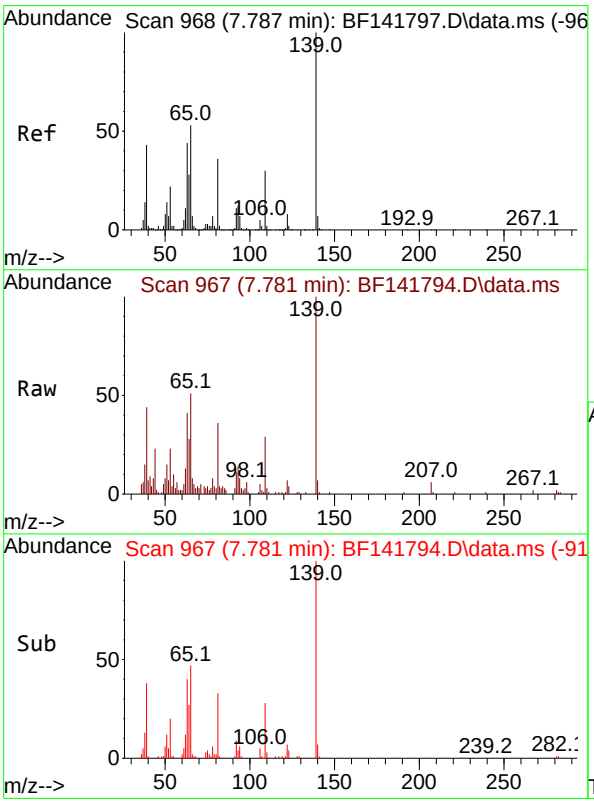
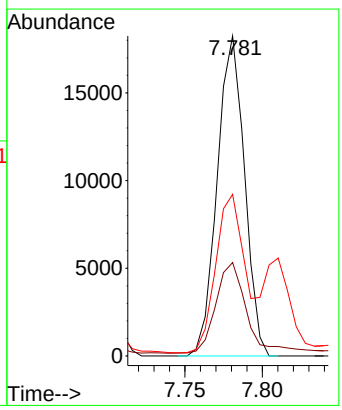
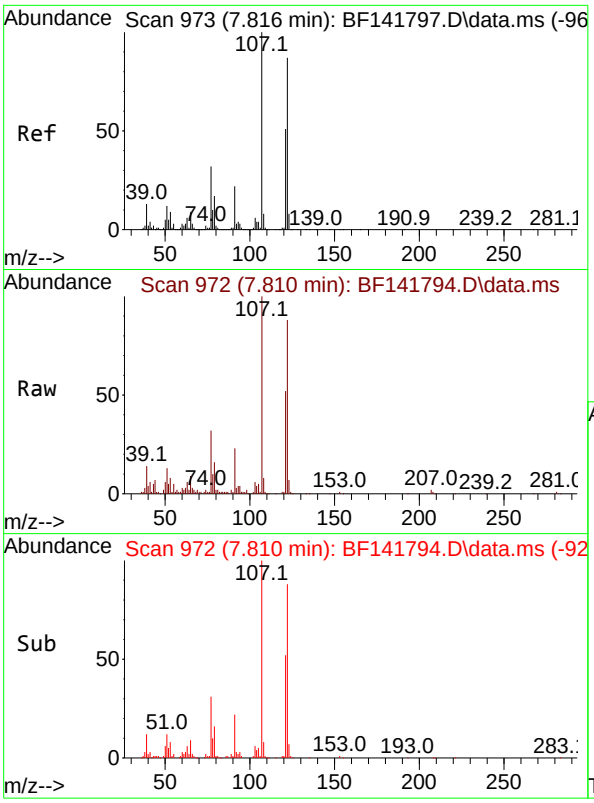


#26
2-Nitrophenol
Concen: 6.947 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:139 Resp: 22354

Ion	Ratio	Lower	Upper
139	100		
109	29.2	24.1	36.1
65	50.5	42.3	63.5

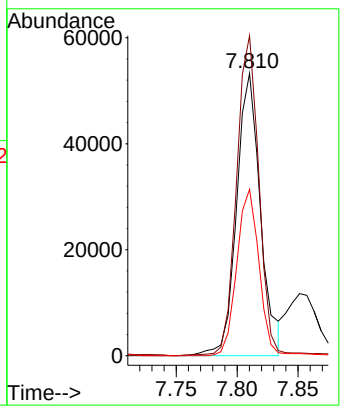




#27
2,4-Dimethylphenol
Concen: 5.211 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:122 Resp: 7263

Ion	Ratio	Lower	Upper
122	100		
107	113.3	92.5	138.7
121	59.0	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
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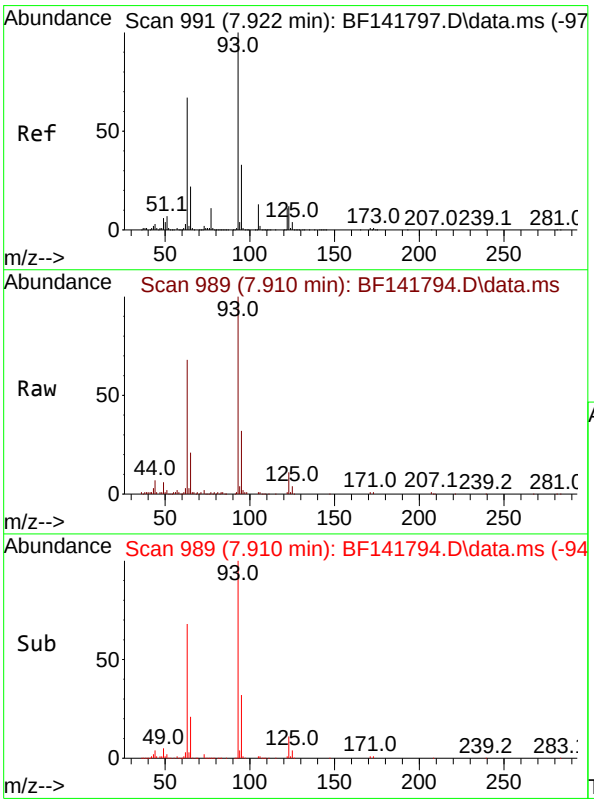
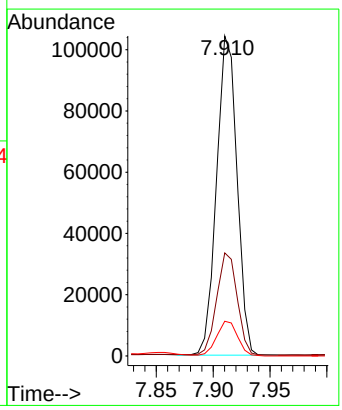
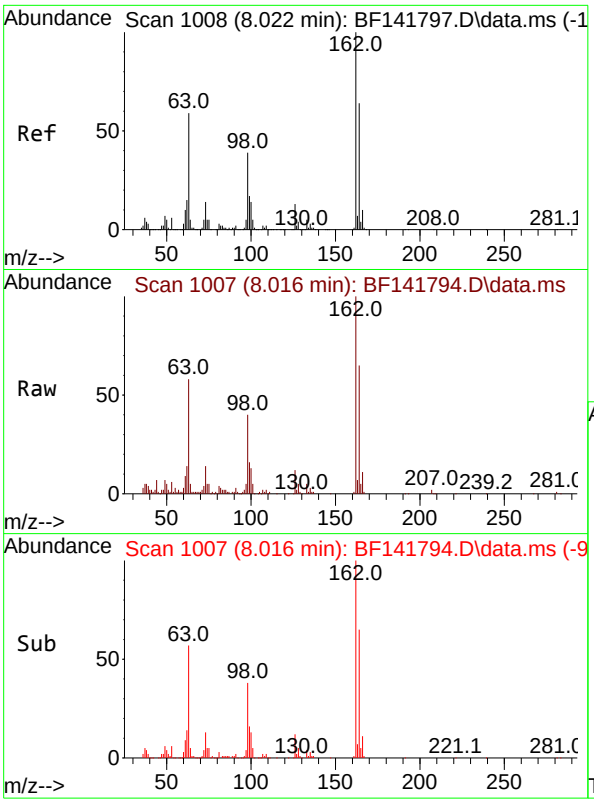


#28
bis(2-Chloroethoxy)methane
Concen: 5.395 ng
RT: 7.910 min Scan# 989
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 93 Resp: 130473

Ion	Ratio	Lower	Upper
93	100		
95	32.2	26.5	39.7
123	10.9	10.0	15.0





#29
2,4-Dichlorophenol
Concen: 4.914 ng
RT: 8.016 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:162 Resp: 7900

Ion	Ratio	Lower	Upper
162	100		
164	65.2	44.3	84.3
98	39.6	19.6	59.6

Instrument :
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ClientSampleId :
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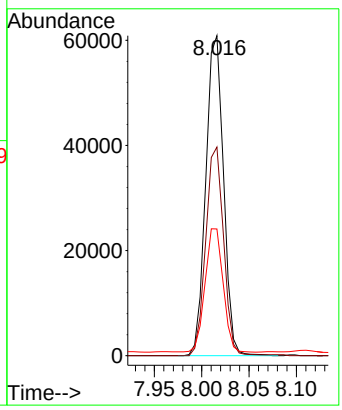
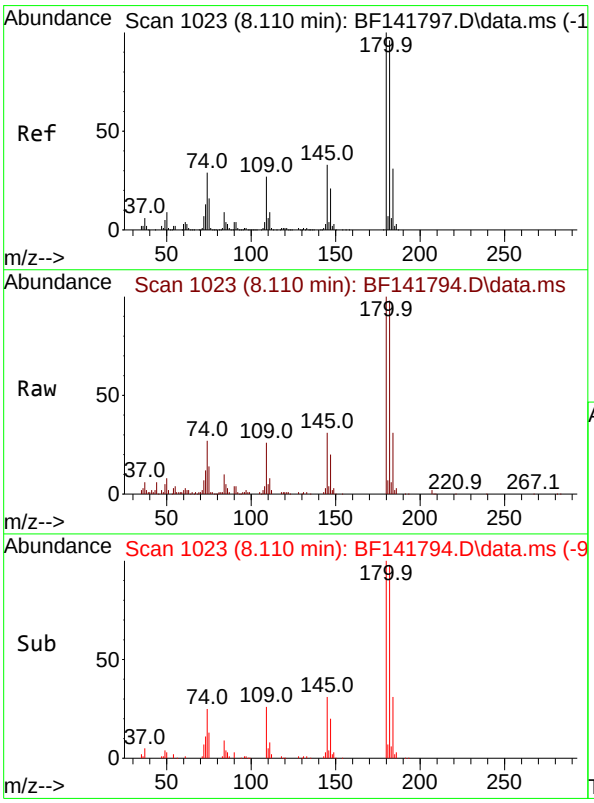
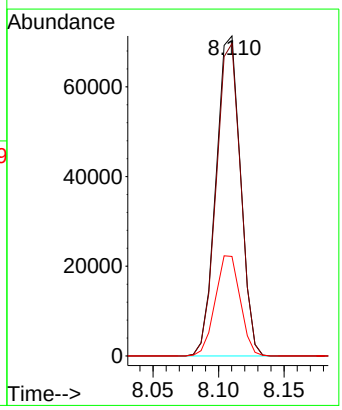


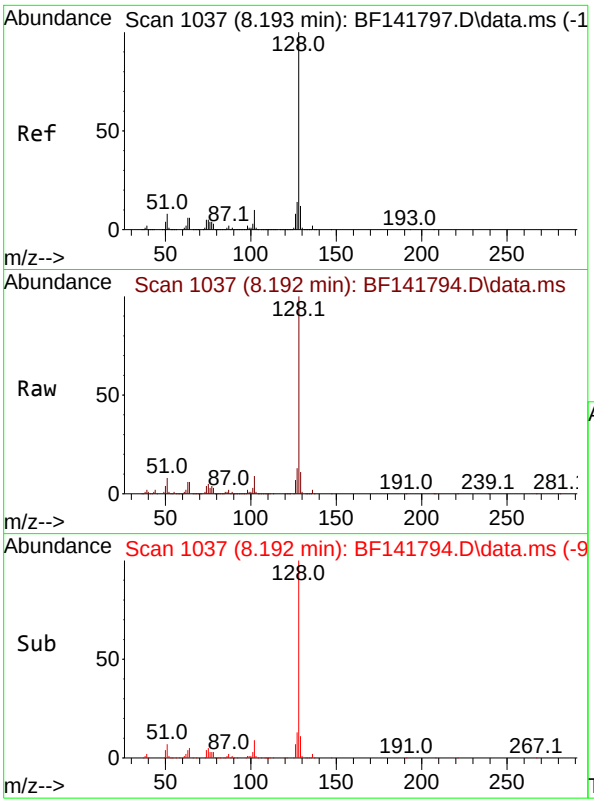


#30
1,2,4-Trichlorobenzene
Concen: 5.244 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:180 Resp: 92399

Ion	Ratio	Lower	Upper
180	100		
182	97.6	76.8	115.2
145	31.1	26.4	39.6

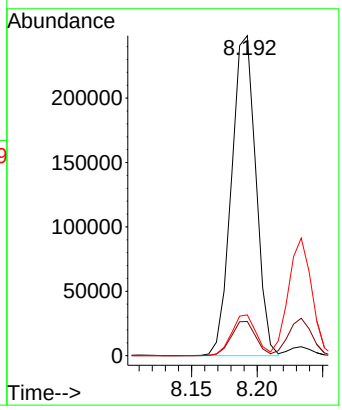




#31
Naphthalene
Concen: 5.546 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:128 Resp: 32154

Ion	Ratio	Lower	Upper
128	100		
129	10.7	9.2	13.8
127	12.8	11.0	16.4



Instrument :
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ClientSampleId :
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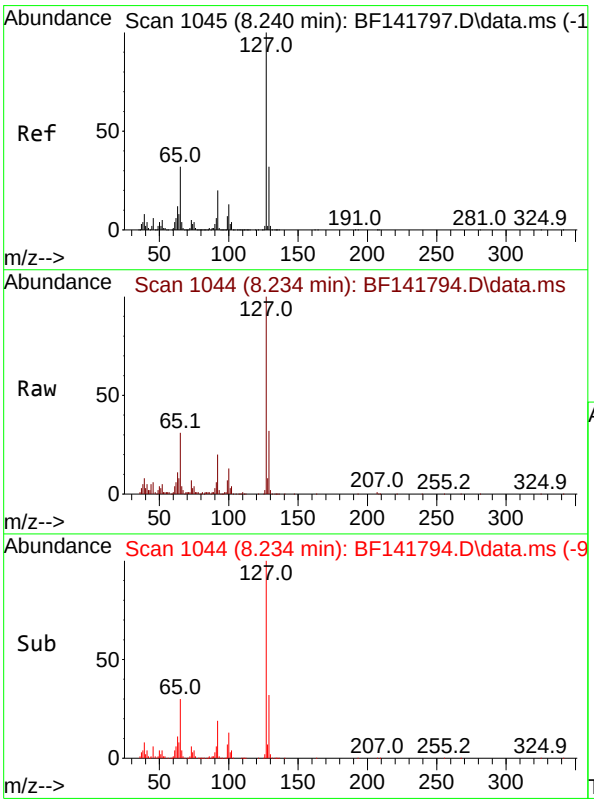
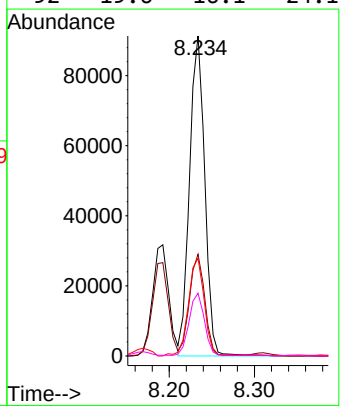
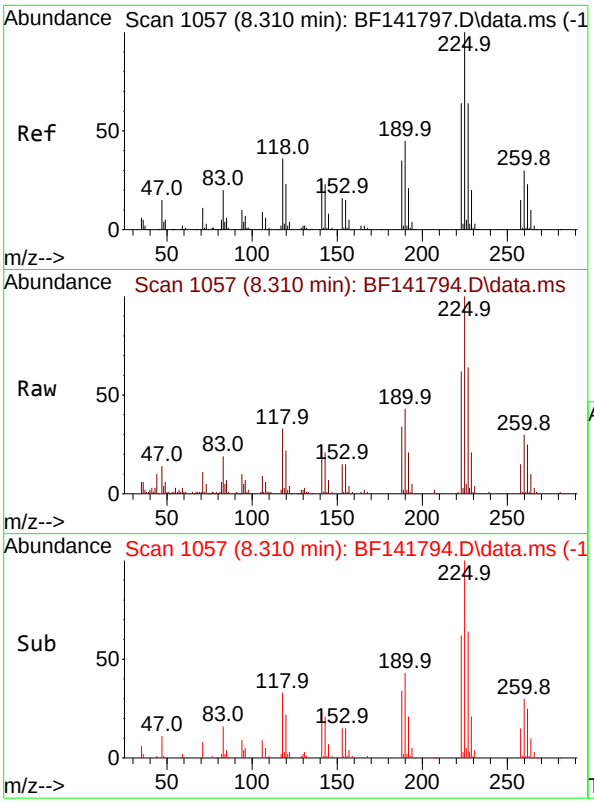


#33
4-Chloroaniline
Concen: 5.335 ng
RT: 8.234 min Scan# 1044
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:127 Resp: 113407

Ion	Ratio	Lower	Upper
127	100		
129	31.8	26.1	39.1
65	30.5	25.7	38.5
92	19.6	16.1	24.1

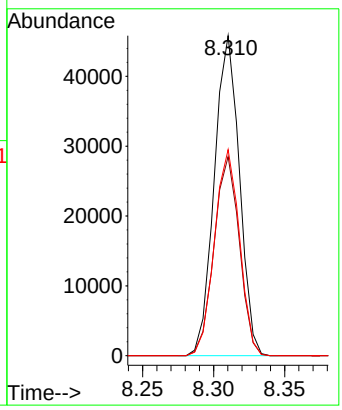




#34
Hexachlorobutadiene
Concen: 5.134 ng
RT: 8.310 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:225 Resp: 5620

Ion	Ratio	Lower	Upper
225	100		
223	62.2	51.4	77.2
227	64.4	51.6	77.4



Instrument :
BNA_F
ClientSampleId :
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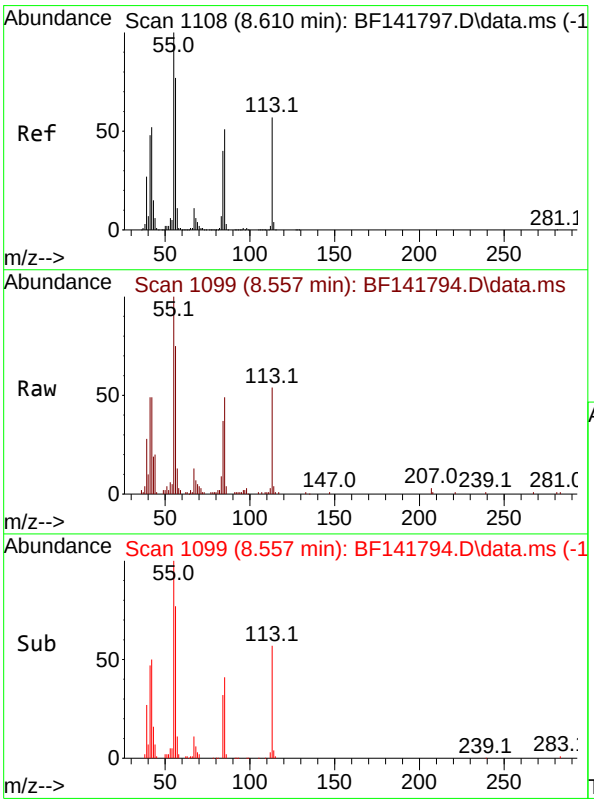
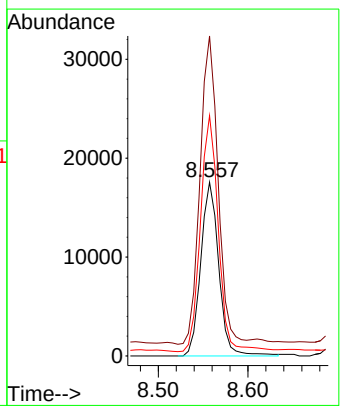
Supervised By :mohammad ahmed 02/28/2025

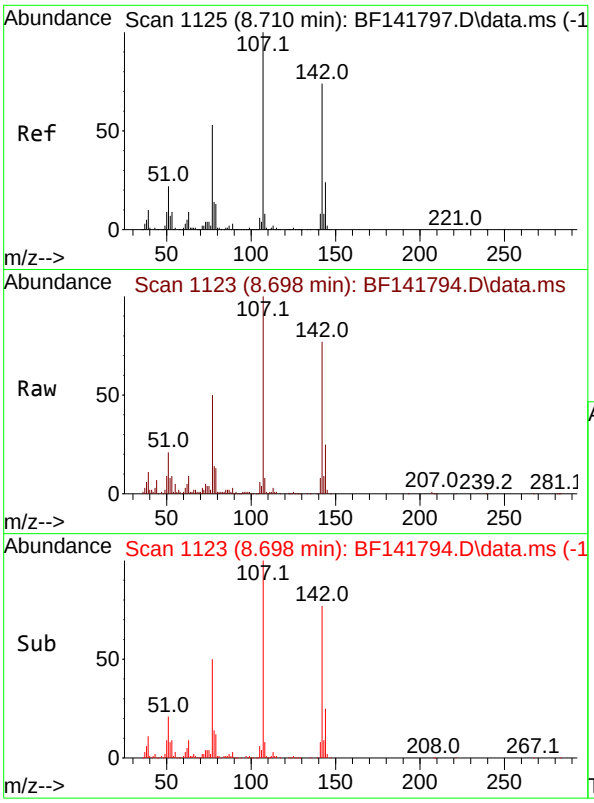


#35
Caprolactam
Concen: 4.946 ng
RT: 8.557 min Scan# 1099
Delta R.T. -0.053 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:113 Resp: 24467

Ion	Ratio	Lower	Upper
113	100		
55	184.1	155.6	195.6
56	138.2	114.6	154.6





#36
4-Chloro-3-methylphenol
Concen: 5.262 ng
RT: 8.698 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:107 Resp: 9398

Ion	Ratio	Lower	Upper
107	100		
144	24.8	19.4	29.0
142	76.8	59.4	89.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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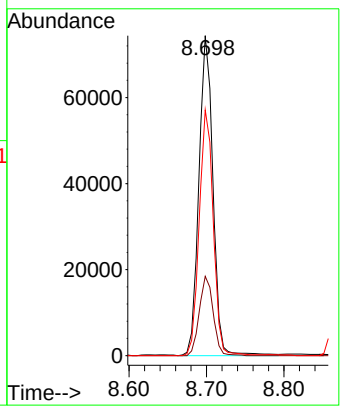
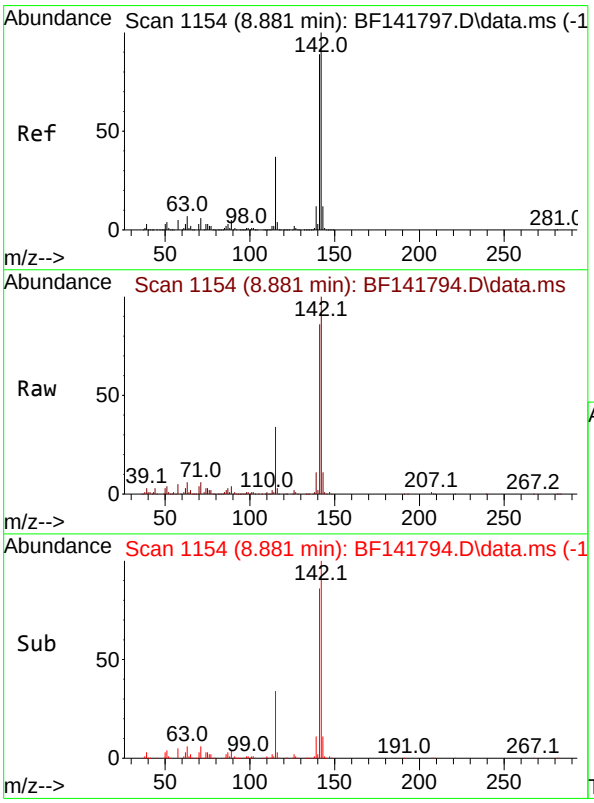
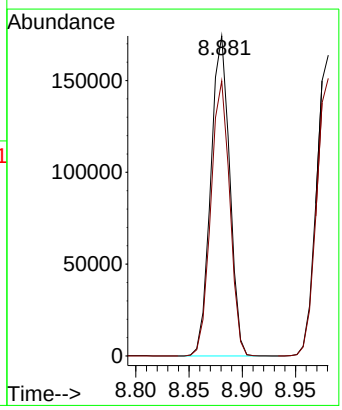


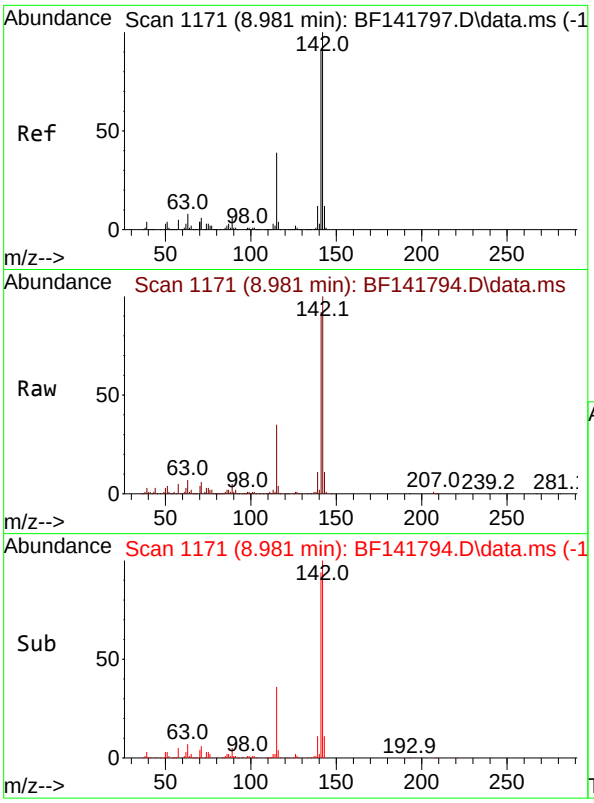


#37
2-Methylnaphthalene
Concen: 5.653 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:142 Resp: 214971

Ion	Ratio	Lower	Upper
142	100		
141	86.0	71.1	106.7

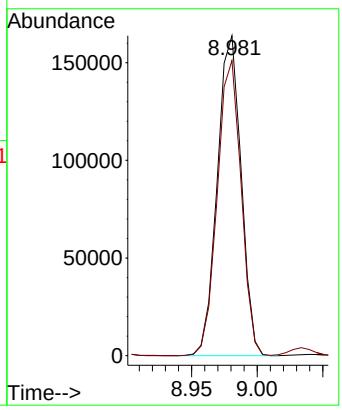




#38
1-Methylnaphthalene
Concen: 5.676 ng
RT: 8.981 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:142 Resp: 20709

Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.1	109.7



Instrument :
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ClientSampleId :
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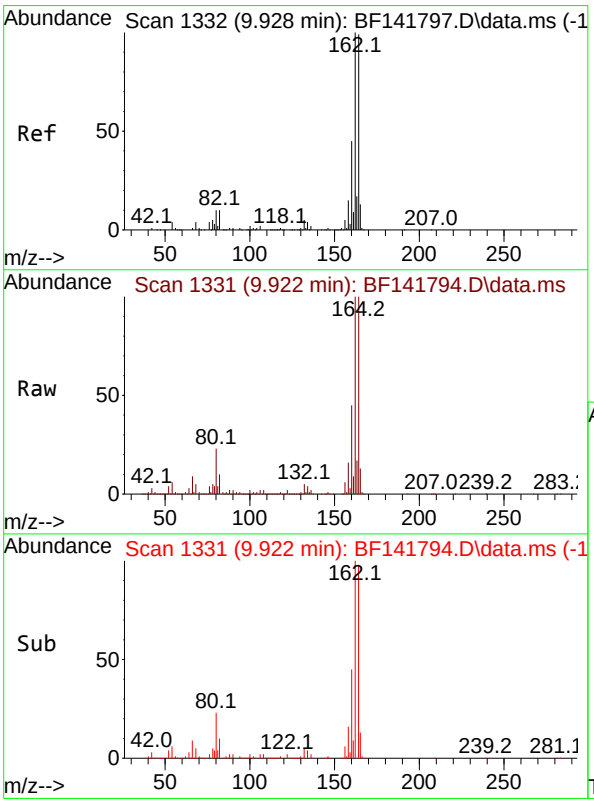
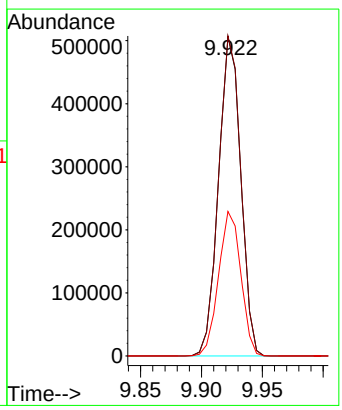
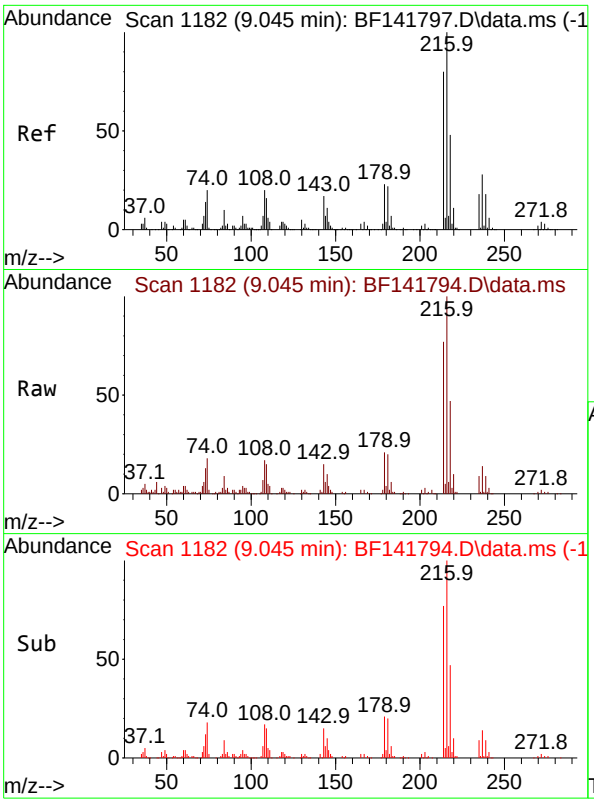


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:164 Resp: 643922

Ion	Ratio	Lower	Upper
164	100		
162	100.3	80.6	120.8
160	45.3	36.3	54.5

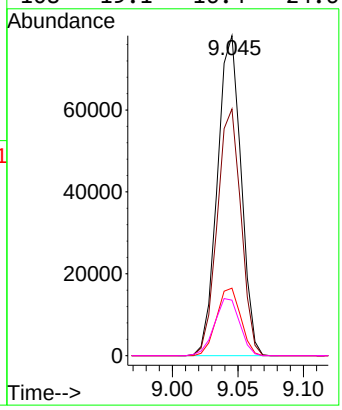




#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.275 ng
RT: 9.045 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:216 Resp: 9810

Ion	Ratio	Lower	Upper
216	100		
214	77.2	63.5	95.3
179	21.5	18.1	27.1
108	19.1	16.4	24.6



Instrument :
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ClientSampleId :
SSTDICC005

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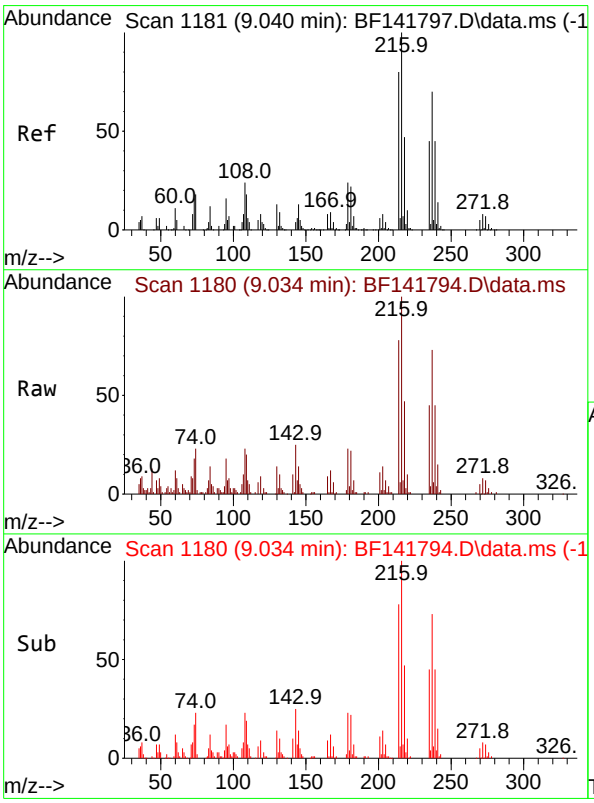
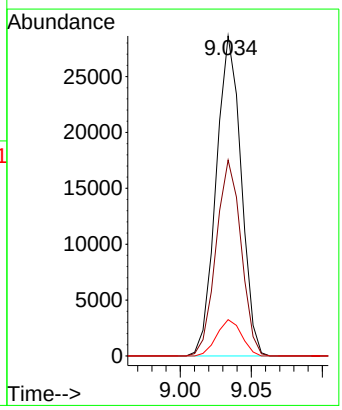
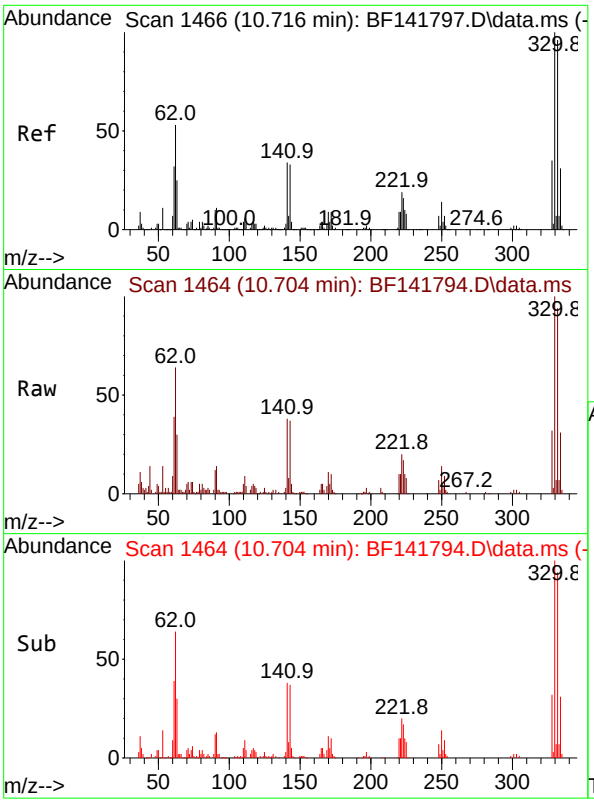


#41
Hexachlorocyclopentadiene
Concen: 4.508 ng
RT: 9.034 min Scan# 1180
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:237 Resp: 34990

Ion	Ratio	Lower	Upper
237	100		
235	61.2	43.3	83.3
272	11.4	0.0	31.9





#42
2,4,6-Tribromophenol
Concen: 9.331 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:330 Resp: 5640

Ion	Ratio	Lower	Upper
330	100		
332	94.6	76.6	115.0
141	37.1	29.0	43.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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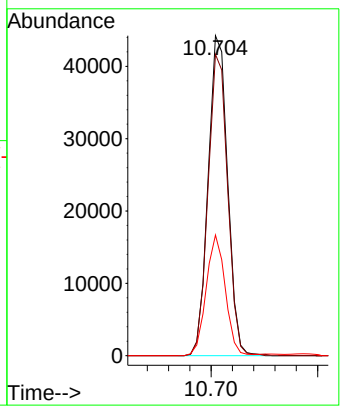
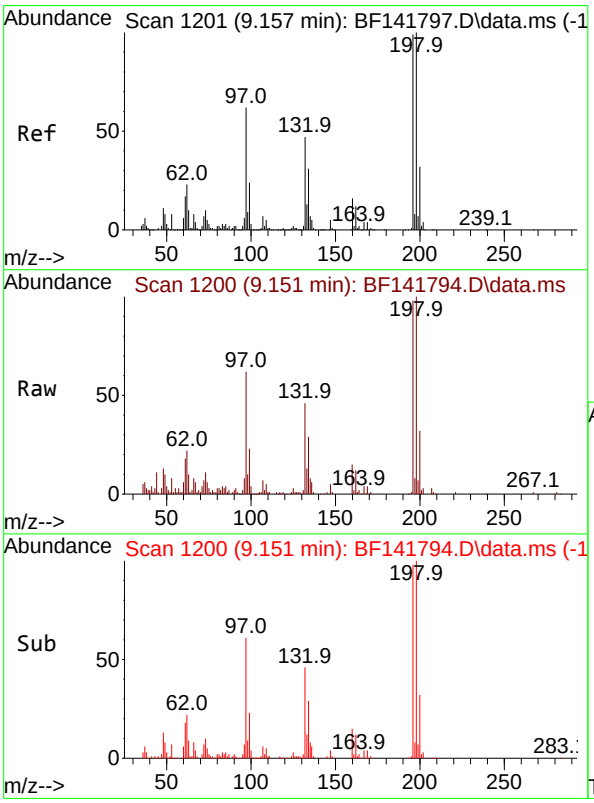
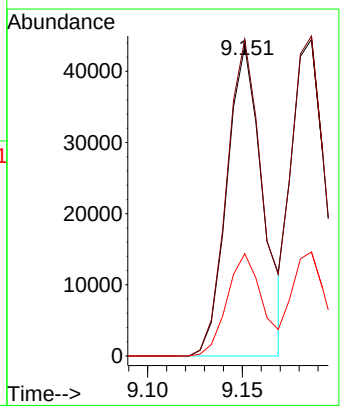


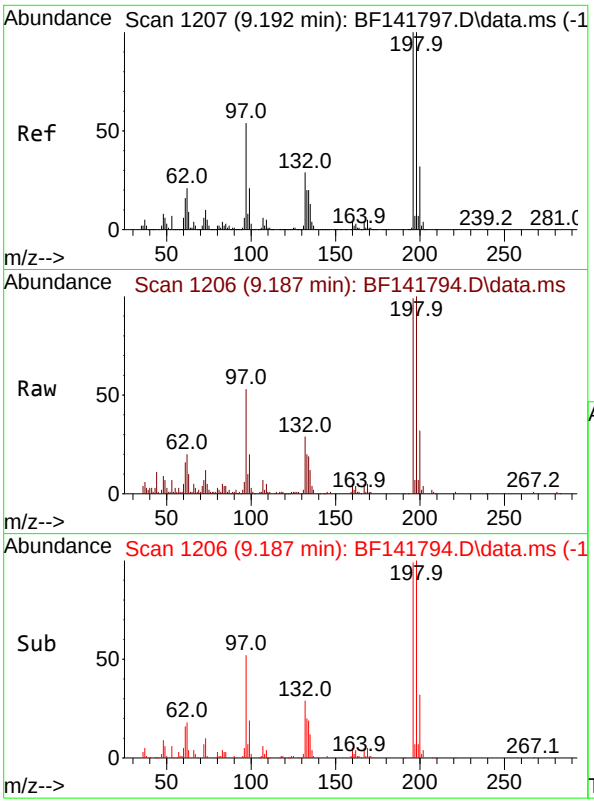


#43
2,4,6-Trichlorophenol
Concen: 4.753 ng
RT: 9.151 min Scan# 1200
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:196 Resp: 57097

Ion	Ratio	Lower	Upper
196	100		
198	102.2	80.4	120.6
200	33.0	25.7	38.5

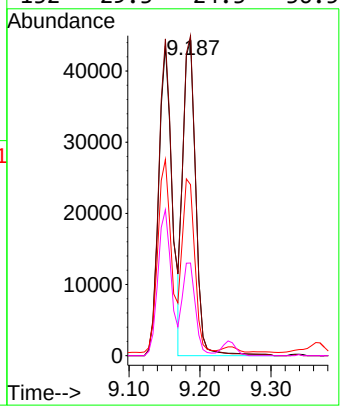




#44
2,4,5-Trichlorophenol
Concen: 4.706 ng
RT: 9.187 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:196 Resp: 5597

Ion	Ratio	Lower	Upper
196	100		
198	101.1	79.7	119.5
97	54.0	44.2	66.2
132	29.3	24.3	36.5



Instrument :
BNA_F
ClientSampleId :
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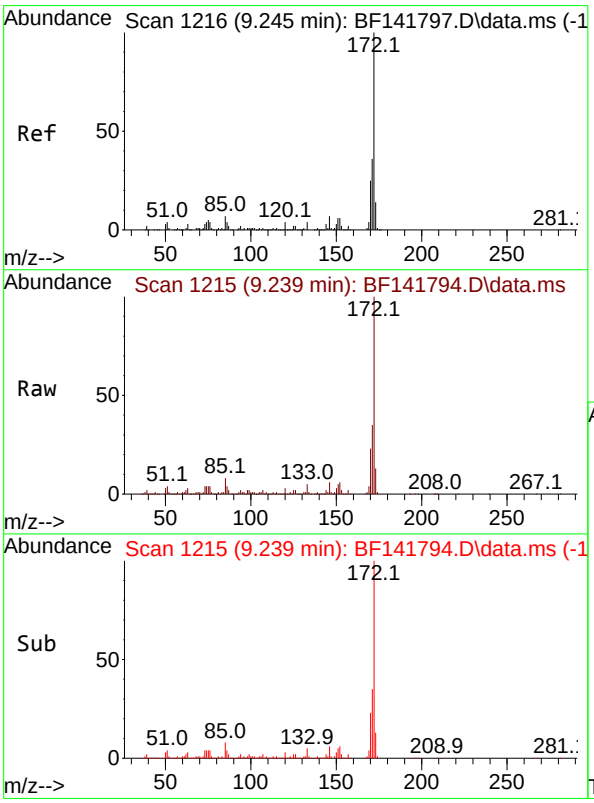
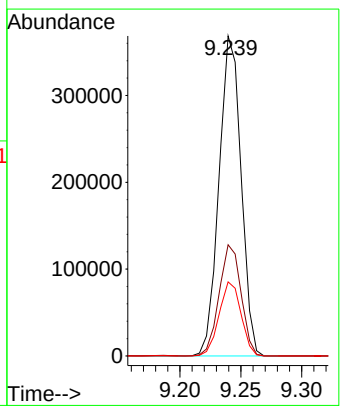
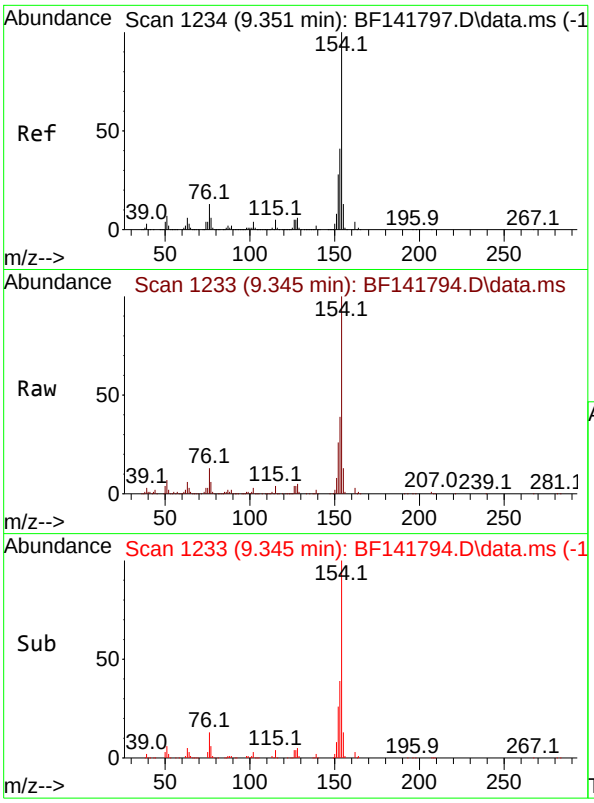


#45
2-Fluorobiphenyl
Concen: 11.570 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:172 Resp: 464621

Ion	Ratio	Lower	Upper
172	100		
171	34.7	29.2	43.8
170	23.2	19.7	29.5

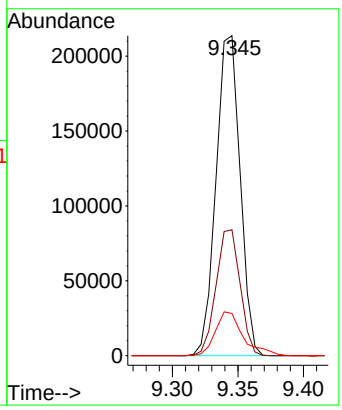




#46
1,1'-Biphenyl
Concen: 5.563 ng
RT: 9.345 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:154 Resp: 27264

Ion	Ratio	Lower	Upper
154	100		
153	39.4	21.4	61.4
76	13.2	0.0	33.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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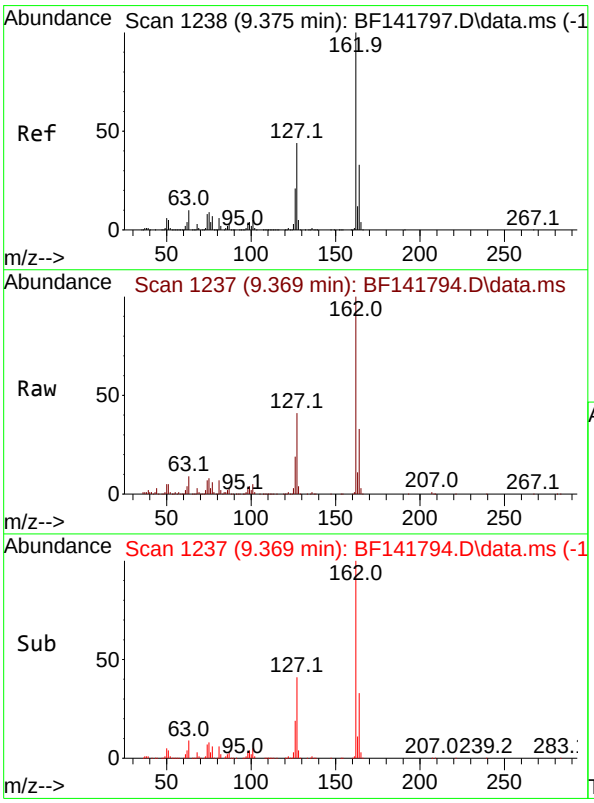
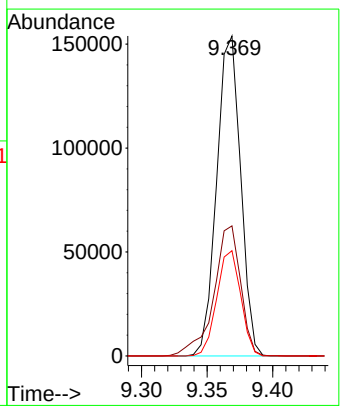
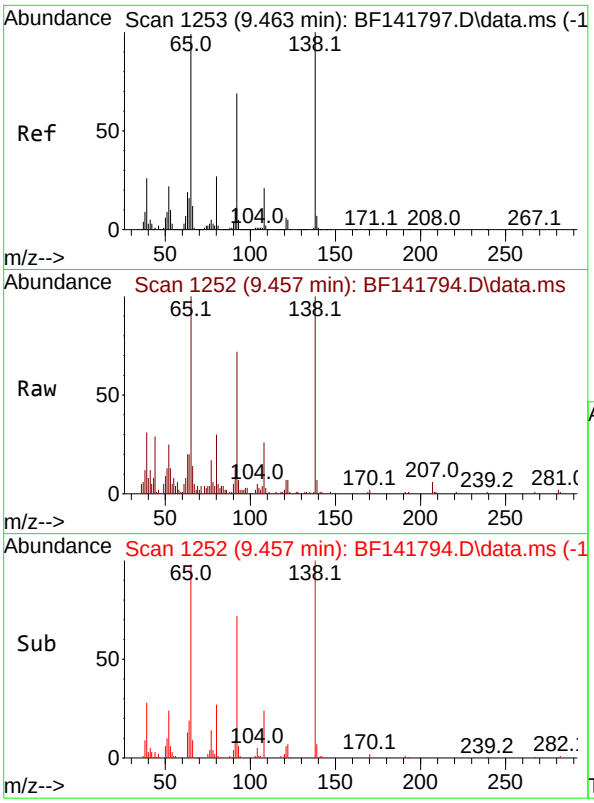


#47
2-Chloronaphthalene
Concen: 5.388 ng
RT: 9.369 min Scan# 1237
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:162 Resp: 194915

Ion	Ratio	Lower	Upper
162	100		
127	40.7	35.0	52.6
164	32.9	26.6	40.0





#48
2-Nitroaniline
Concen: 6.586 ng
RT: 9.457 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 65 Resp: 2446

Ion	Ratio	Lower	Upper
65	100		
92	72.3	55.7	83.5
138	99.8	80.6	121.0

Instrument :
BNA_F
ClientSampleId :
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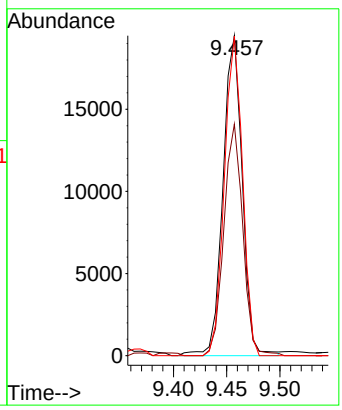
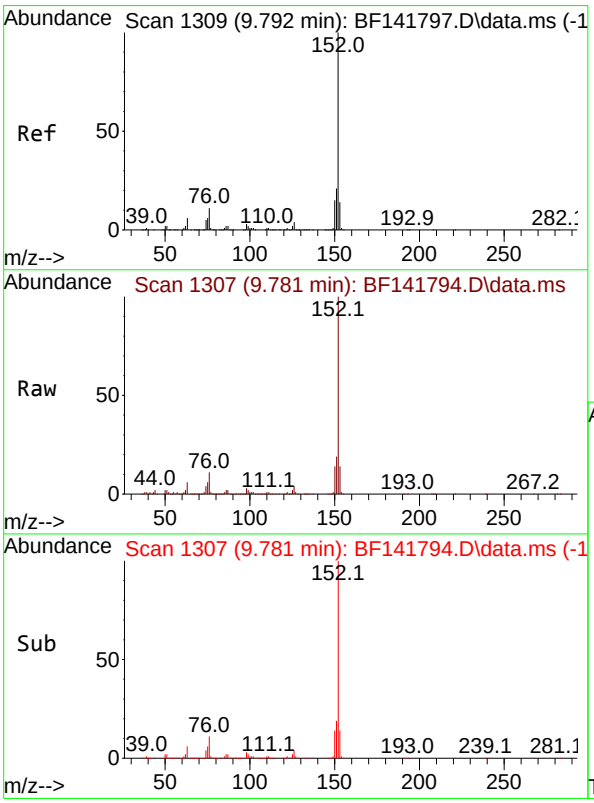
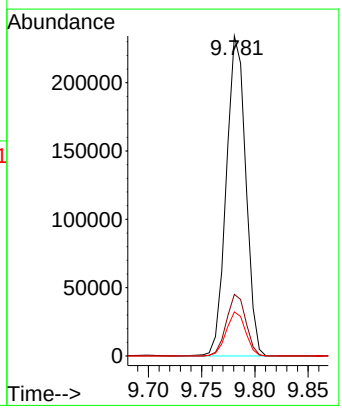


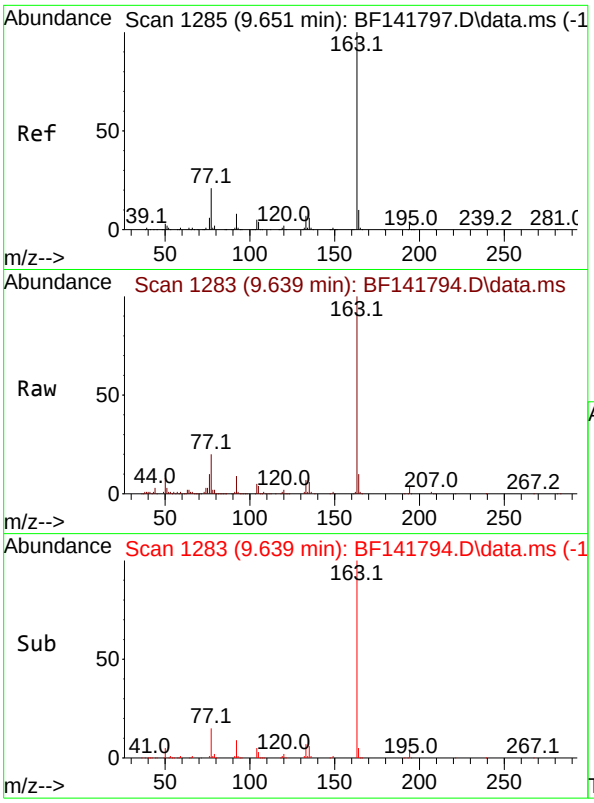


#49
Acenaphthylene
Concen: 5.481 ng
RT: 9.781 min Scan# 1307
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:152 Resp: 297257

Ion	Ratio	Lower	Upper
152	100		
151	19.2	16.6	24.8
153	13.8	11.2	16.8

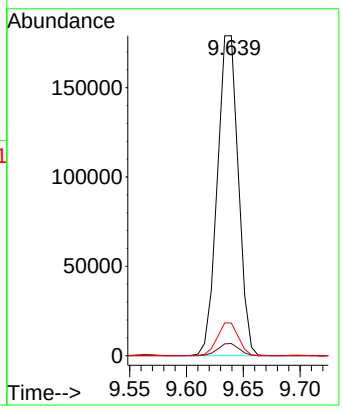




#50
Dimethylphthalate
Concen: 5.344 ng
RT: 9.639 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:163 Resp: 23042

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.1	4.7
164	10.2	8.4	12.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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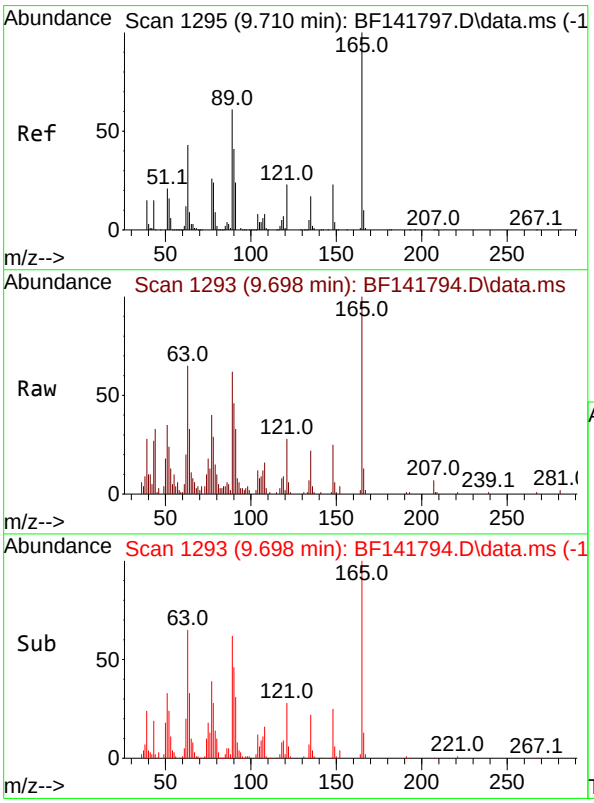
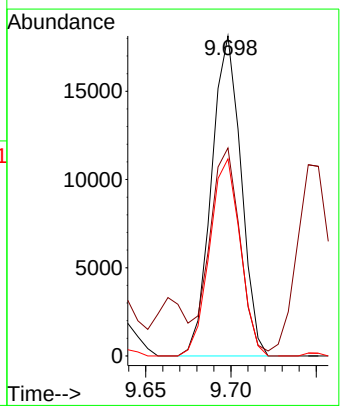
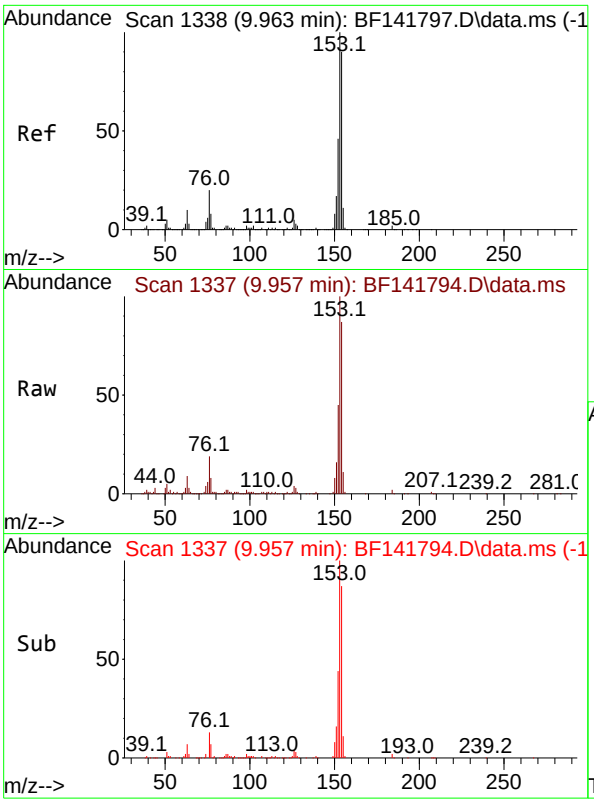


#51
2,6-Dinitrotoluene
Concen: 5.327 ng
RT: 9.698 min Scan# 1293
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:165 Resp: 21902

Ion	Ratio	Lower	Upper
165	100		
63	65.0	49.5	74.3
89	61.6	49.0	73.4

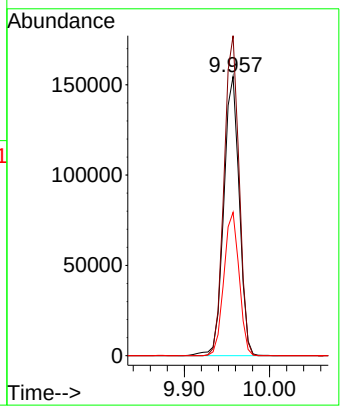




#52
Acenaphthene
Concen: 5.353 ng
RT: 9.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:154 Resp: 19591

Ion	Ratio	Lower	Upper
154	100		
153	114.6	88.7	133.1
152	51.4	40.9	61.3



Instrument :
BNA_F
ClientSampleId :
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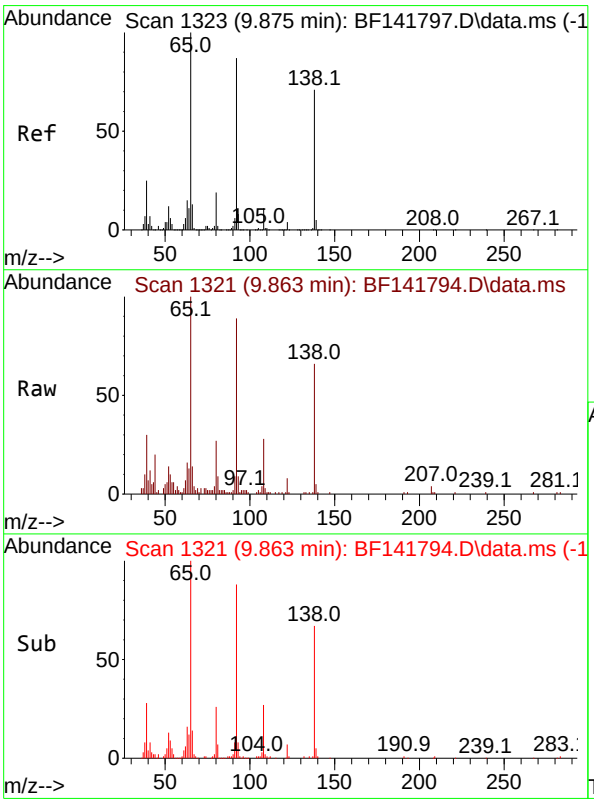
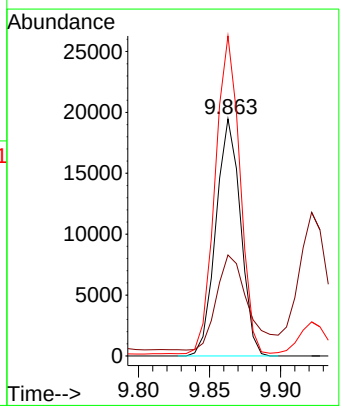
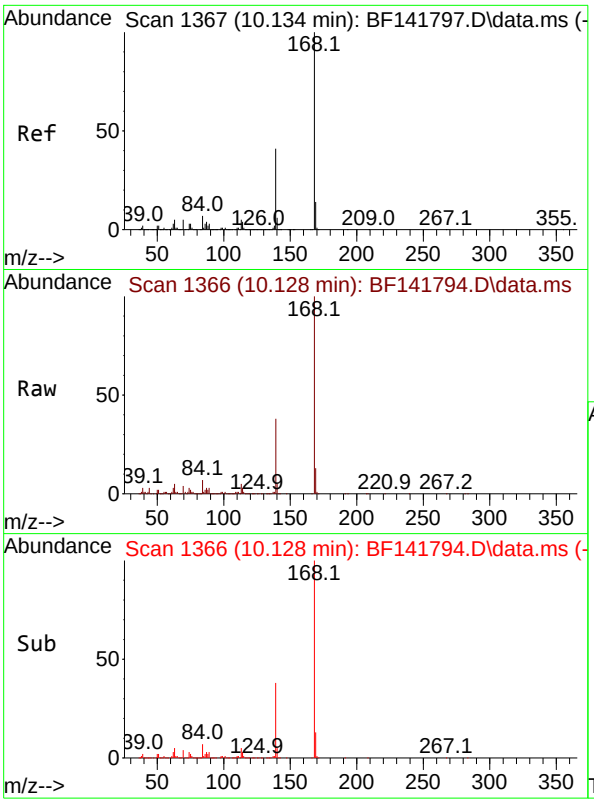


#53
3-Nitroaniline
Concen: 5.471 ng
RT: 9.863 min Scan# 1321
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:138 Resp: 23458

Ion	Ratio	Lower	Upper
138	100		
108	42.5	12.7	19.1#
92	134.9	97.9	146.9

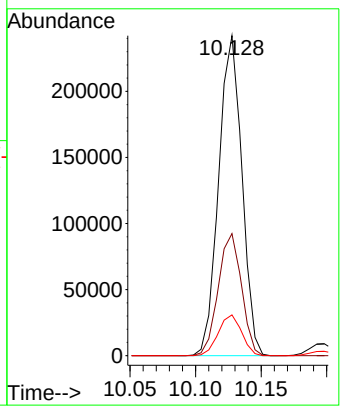




#55
Dibenzofuran
Concen: 5.590 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:168 Resp: 29775

Ion	Ratio	Lower	Upper
168	100		
139	38.1	32.9	49.3
169	12.8	11.1	16.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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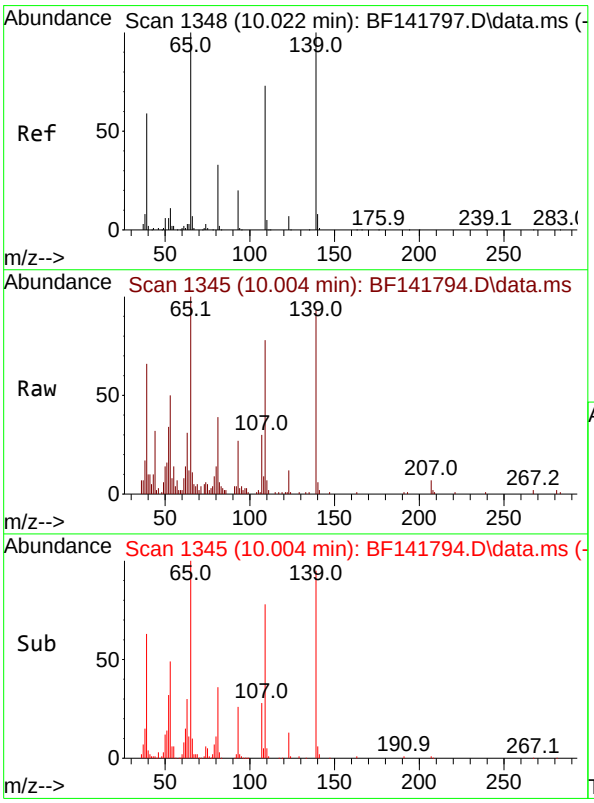
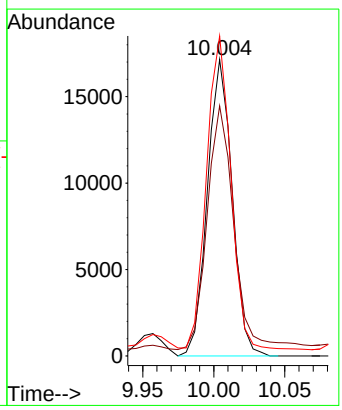
Supervised By :mohammad ahmed 02/28/2025

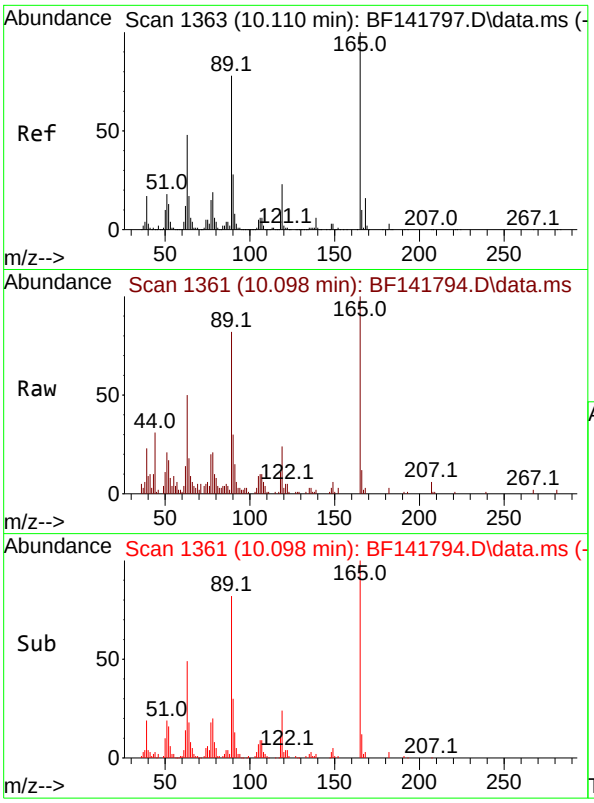


#56
4-Nitrophenol
Concen: 3.272 ng
RT: 10.004 min Scan# 1345
Delta R.T. -0.018 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:139 Resp: 20838

Ion	Ratio	Lower	Upper
139	100		
109	84.4	53.4	93.4
65	107.9	82.1	122.1





#57
2,4-Dinitrotoluene
Concen: 5.755 ng
RT: 10.098 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:165 Resp: 2425

Ion	Ratio	Lower	Upper
165	100		
63	50.0	38.8	58.2
89	82.2	62.6	94.0
182	3.3	2.2	3.2#

Instrument :
BNA_F
ClientSampleId :
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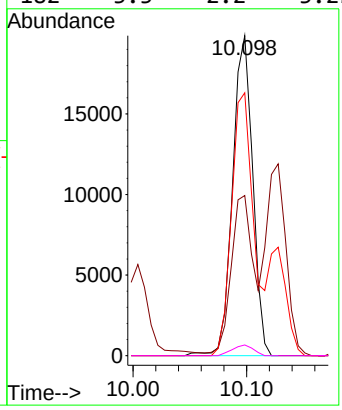
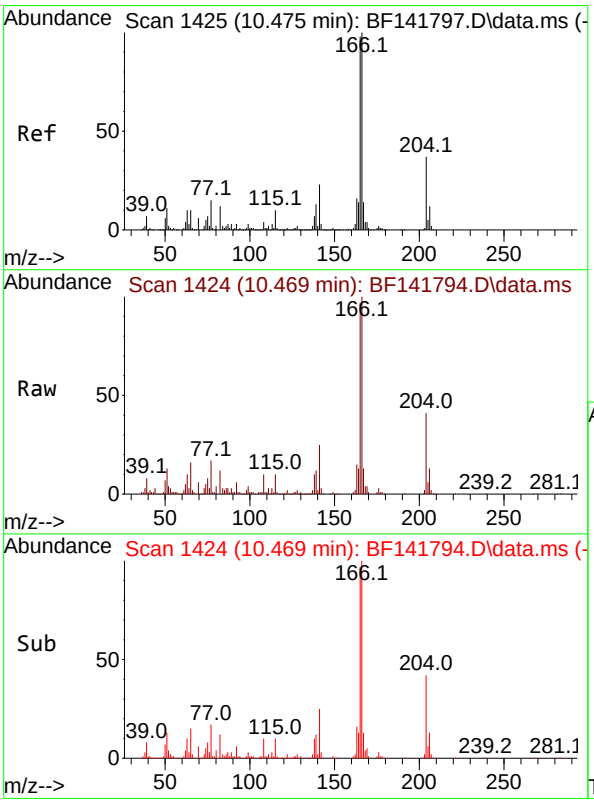
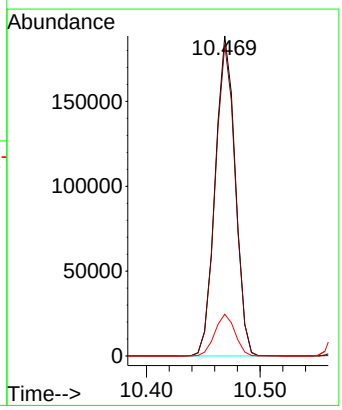


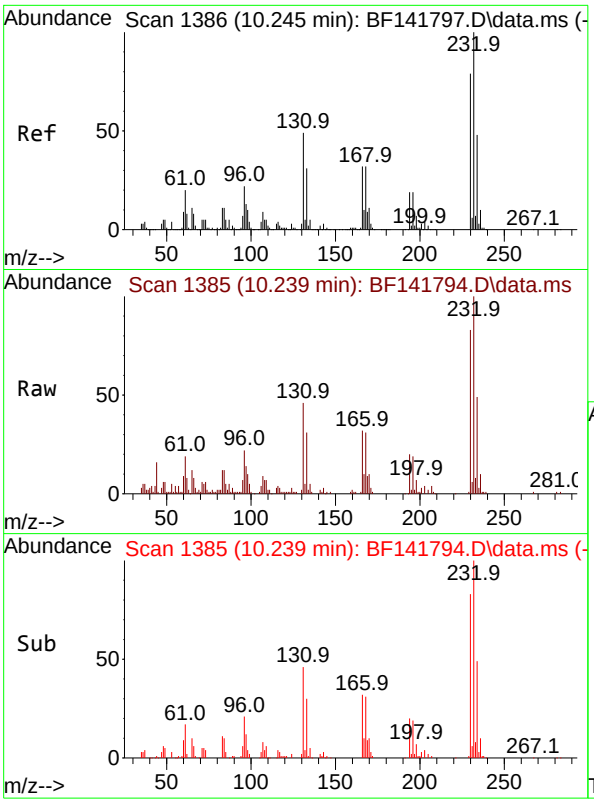


#58
Fluorene
Concen: 5.782 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:166 Resp: 230713

Ion	Ratio	Lower	Upper
166	100		
165	97.3	78.6	117.8
167	13.0	11.0	16.4

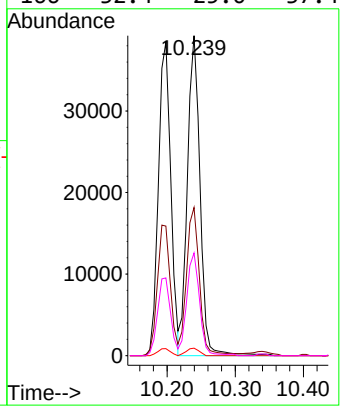




#59
2,3,4,6-Tetrachlorophenol
Concen: 4.873 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:232 Resp: 5041

Ion	Ratio	Lower	Upper
232	100		
131	47.2	37.8	56.8
130	2.4	2.0	3.0
166	32.4	25.0	37.4



Instrument :
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ClientSampleId :
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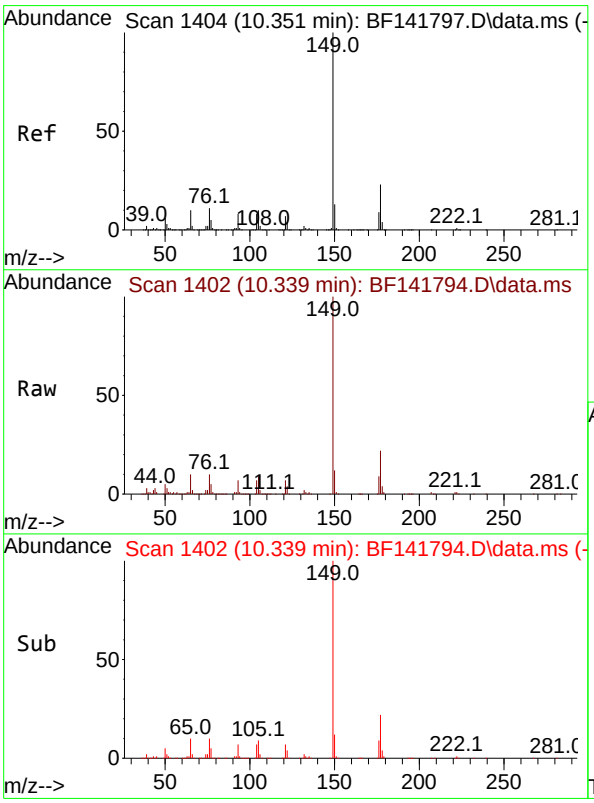
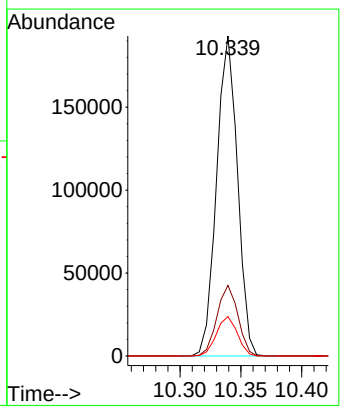
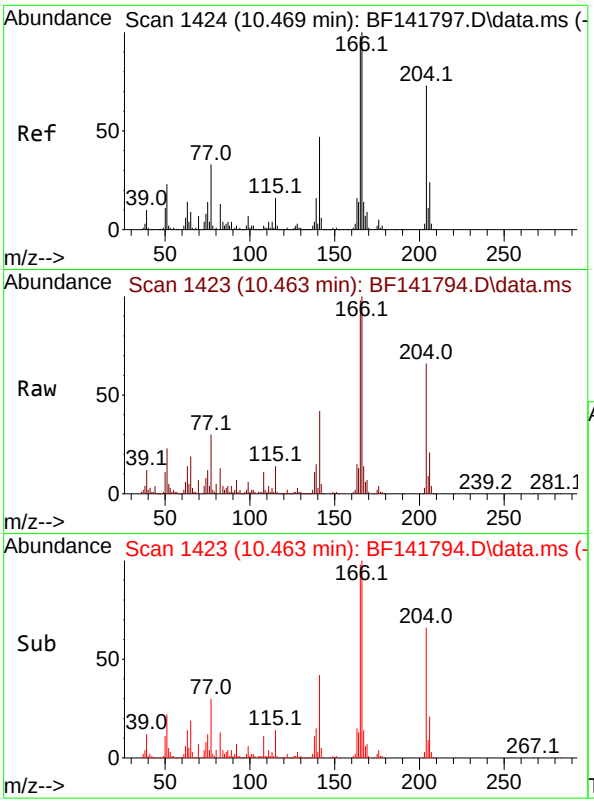


#60
Diethylphthalate
Concen: 5.322 ng
RT: 10.339 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:149 Resp: 230060

Ion	Ratio	Lower	Upper
149	100		
177	22.1	18.3	27.5
150	12.3	10.3	15.5





#61
4-Chlorophenyl-phenylether
Concen: 5.561 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:204 Resp: 111169

Ion	Ratio	Lower	Upper
204	100		
206	32.1	26.2	39.4
141	63.0	51.7	77.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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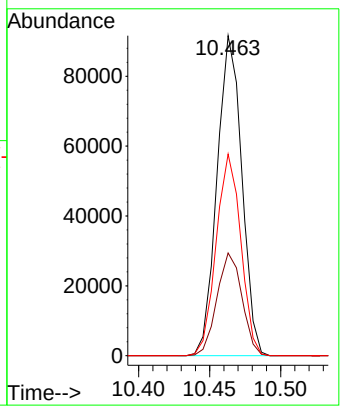
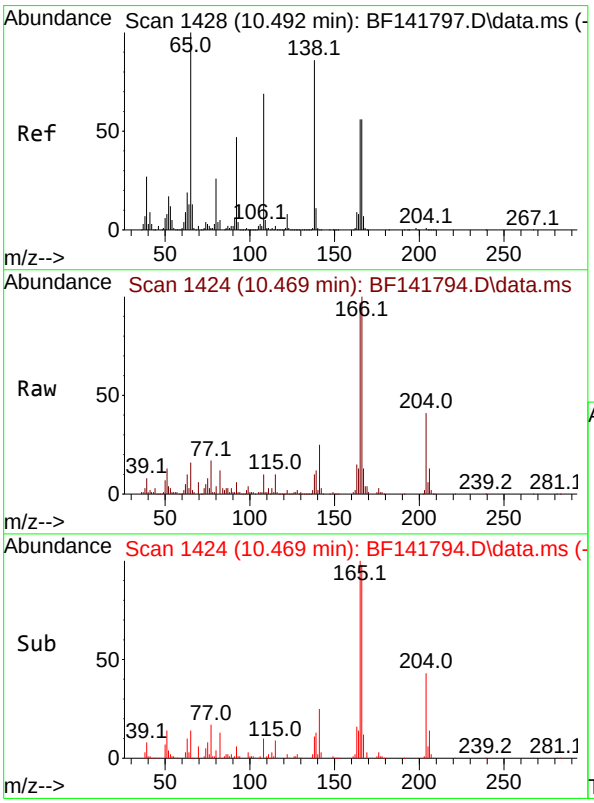
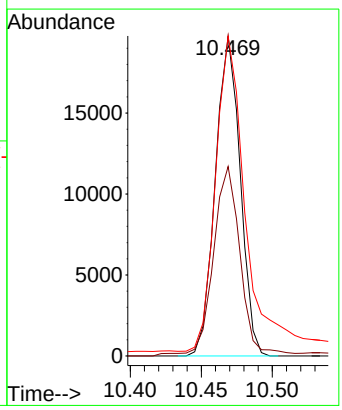


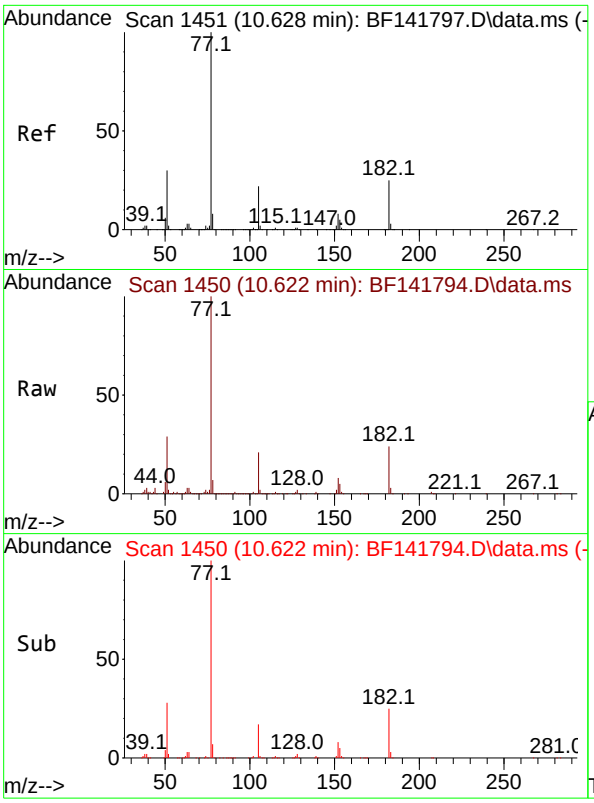


#62
4-Nitroaniline
Concen: 3.260 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.024 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:138 Resp: 24006

Ion	Ratio	Lower	Upper
138	100		
92	59.3	34.9	74.9
108	100.2	59.6	99.6#

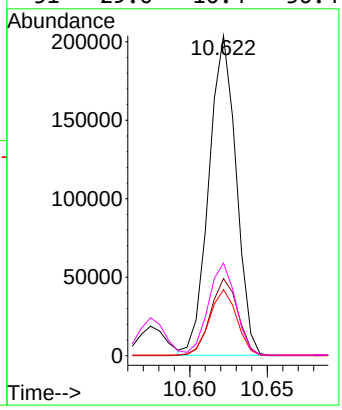




#63
Azobenzene
Concen: 5.460 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 77 Resp: 248519

Ion	Ratio	Lower	Upper
77	100		
182	24.1	4.2	44.2
105	20.7	1.5	41.5
51	29.0	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
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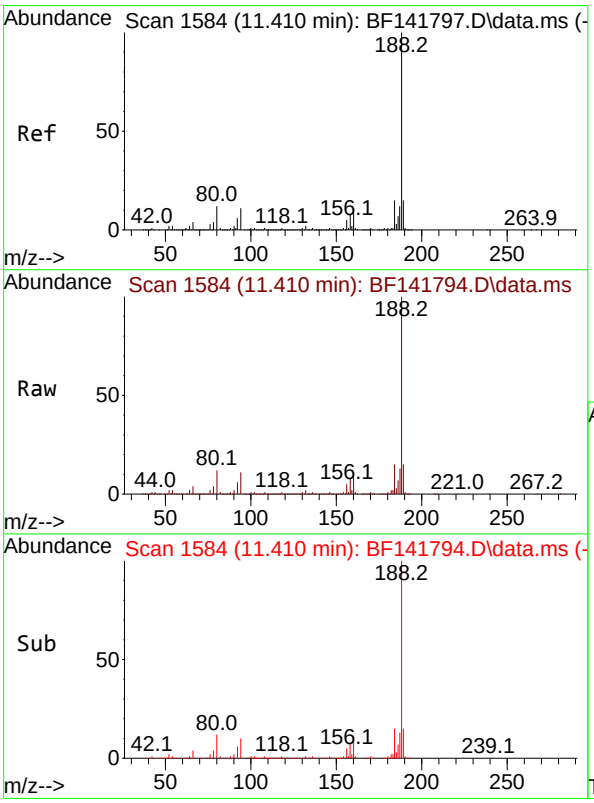
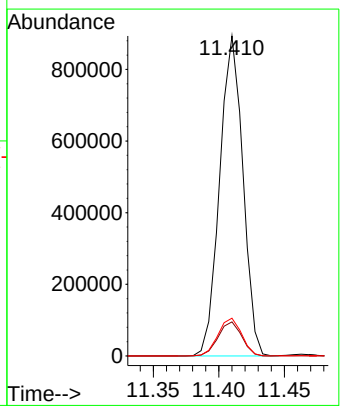
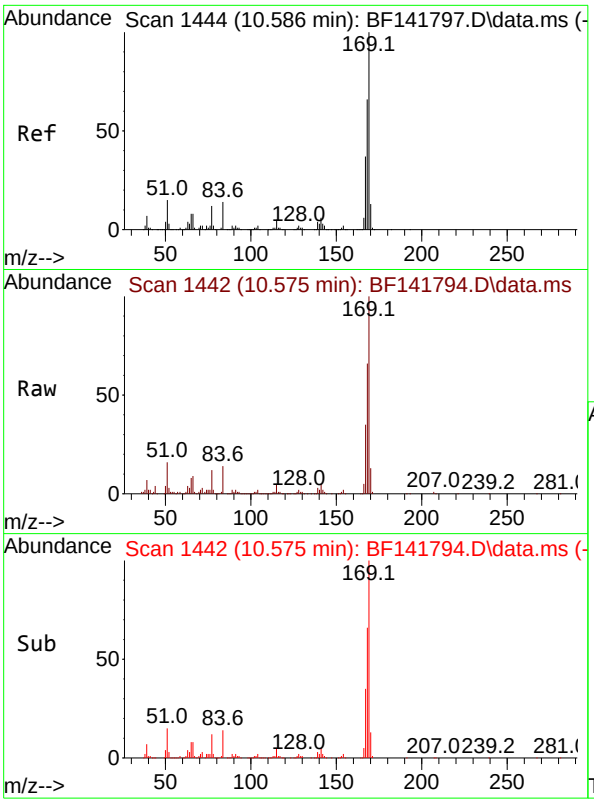


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:188 Resp: 1101046

Ion	Ratio	Lower	Upper
188	100		
94	10.6	8.9	13.3
80	11.8	9.7	14.5

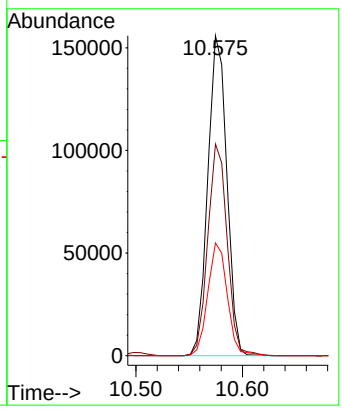




#66
n-Nitrosodiphenylamine
Concen: 5.344 ng
RT: 10.575 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:169 Resp: 19320

Ion	Ratio	Lower	Upper
169	100		
168	66.2	53.0	79.6
167	35.2	29.3	43.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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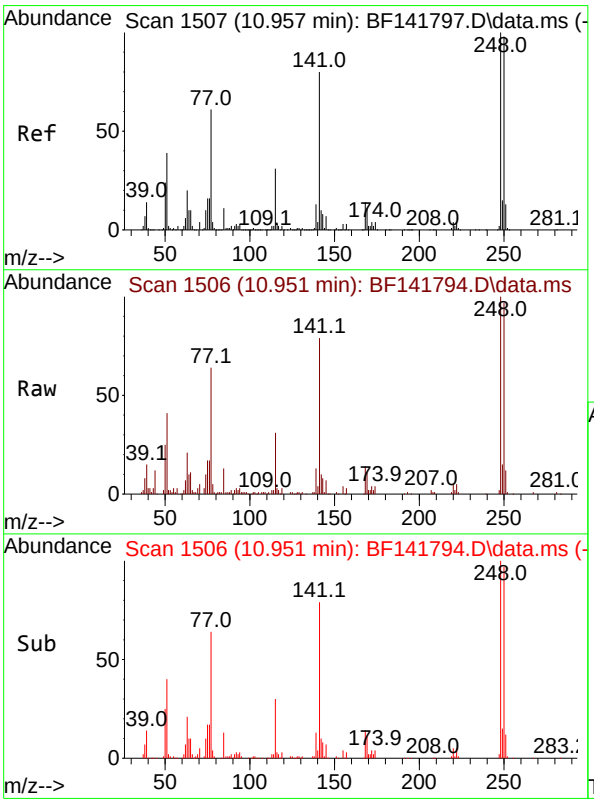
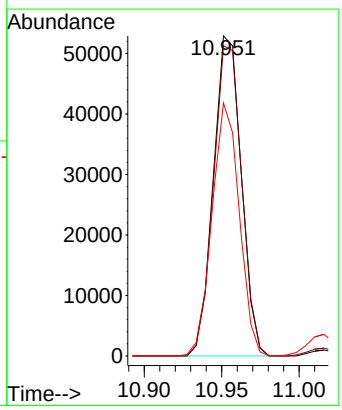
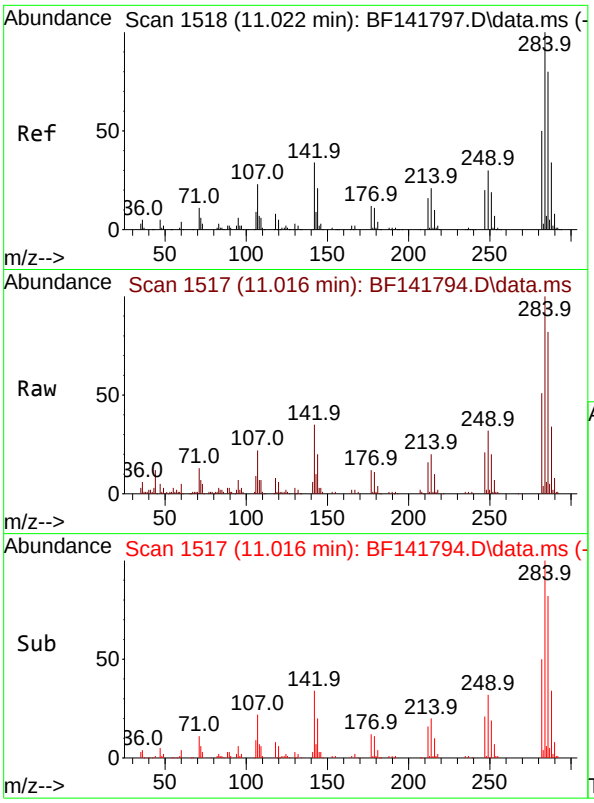


#67
4-Bromophenyl-phenylether
Concen: 5.156 ng
RT: 10.951 min Scan# 1506
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:248 Resp: 66312

Ion	Ratio	Lower	Upper
248	100		
250	97.0	78.1	117.1
141	79.0	64.3	96.5

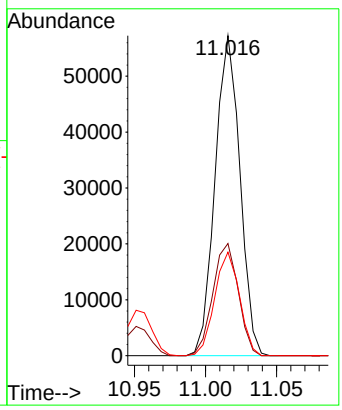




#68
Hexachlorobenzene
Concen: 5.125 ng
RT: 11.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:284 Resp: 6959

Ion	Ratio	Lower	Upper
284	100		
142	35.1	28.2	42.2
249	32.3	25.5	38.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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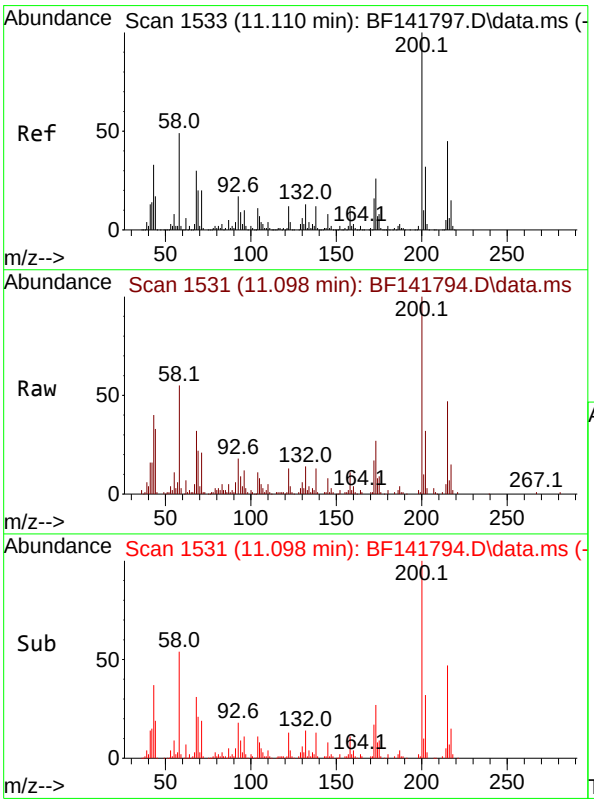
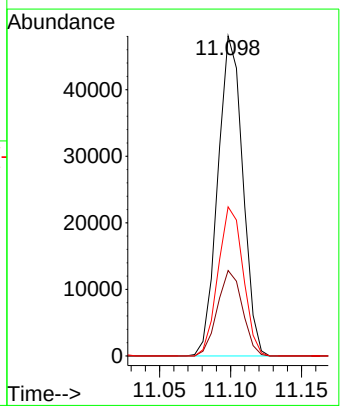
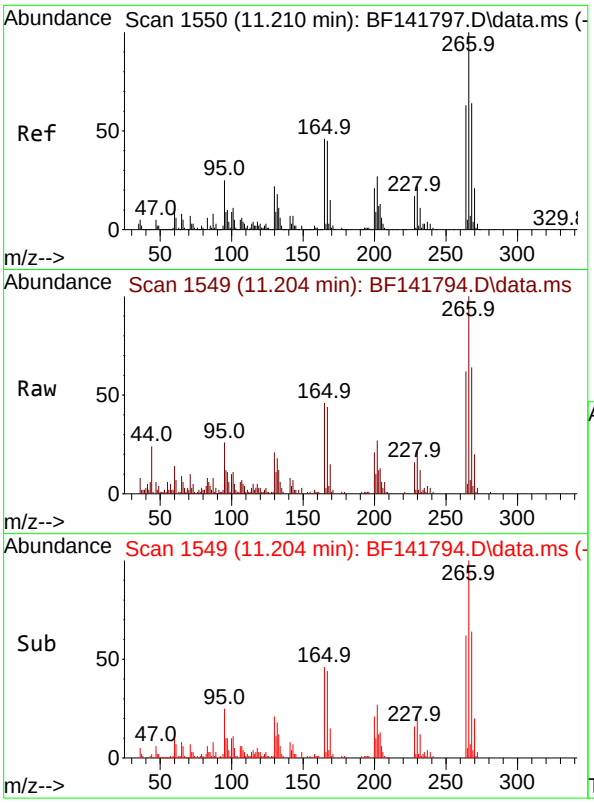


#69
Atrazine
Concen: 5.897 ng
RT: 11.098 min Scan# 1531
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:200 Resp: 58634

Ion	Ratio	Lower	Upper
200	100		
173	26.7	5.6	45.6
215	46.6	25.3	65.3

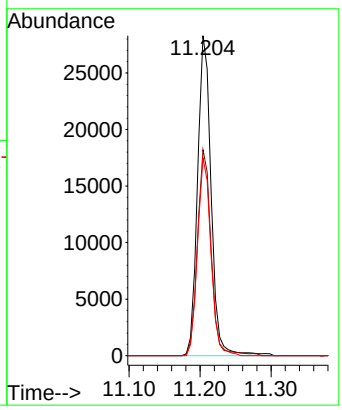




#70
Pentachlorophenol
Concen: 4.373 ng
RT: 11.204 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:266 Resp: 3766

Ion	Ratio	Lower	Upper
266	100		
268	64.3	50.9	76.3
264	61.8	50.2	75.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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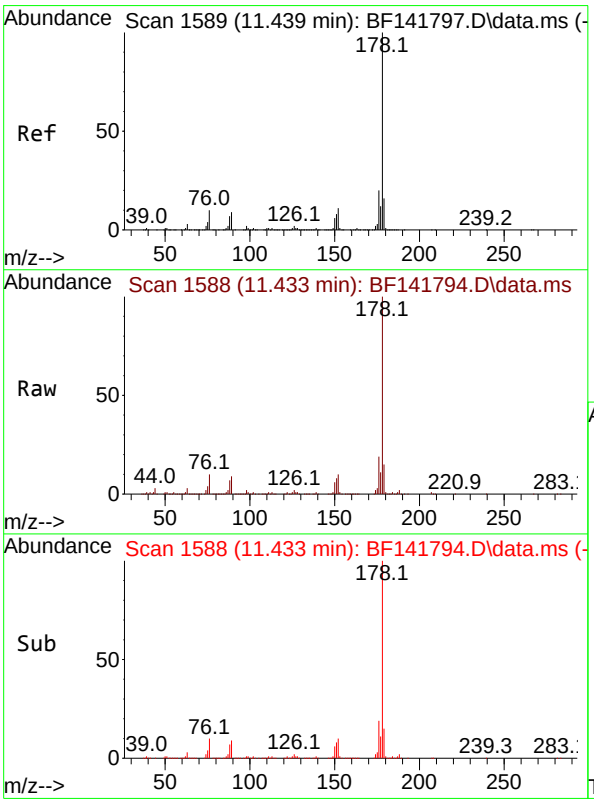
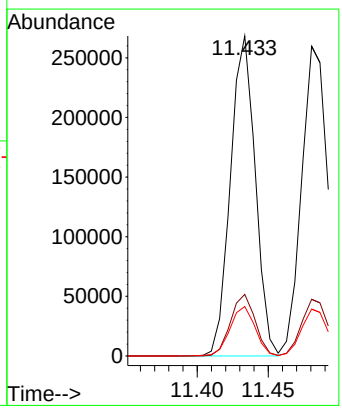
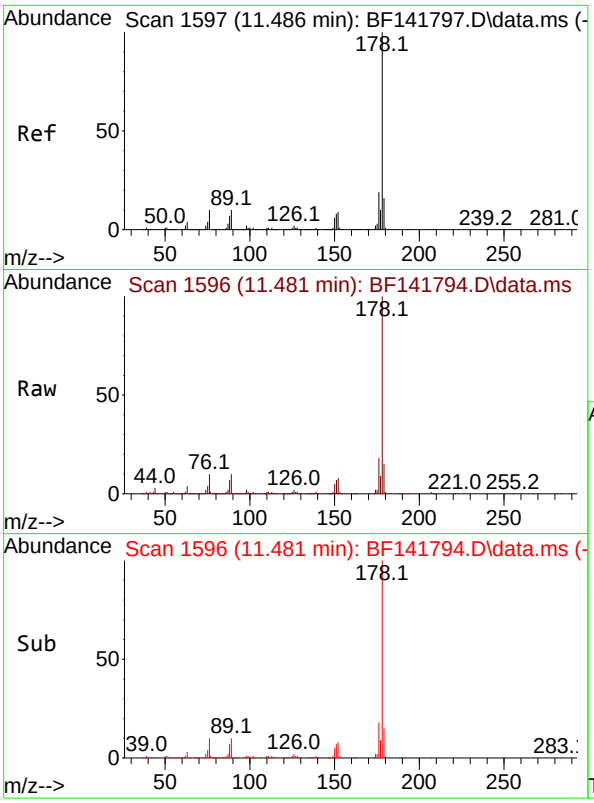


#71
Phenanthrene
Concen: 5.544 ng
RT: 11.433 min Scan# 1588
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:178 Resp: 326529

Ion	Ratio	Lower	Upper
178	100		
176	19.3	16.0	24.0
179	15.5	12.6	19.0

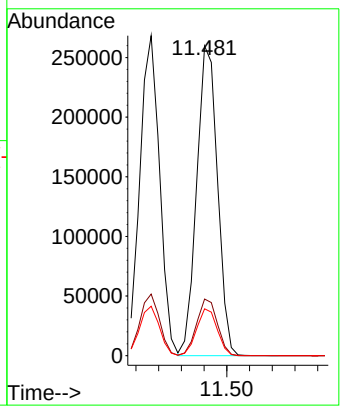




#72
Anthracene
Concen: 5.610 ng
RT: 11.481 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:178 Resp: 33114

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.4	23.0
179	15.2	12.8	19.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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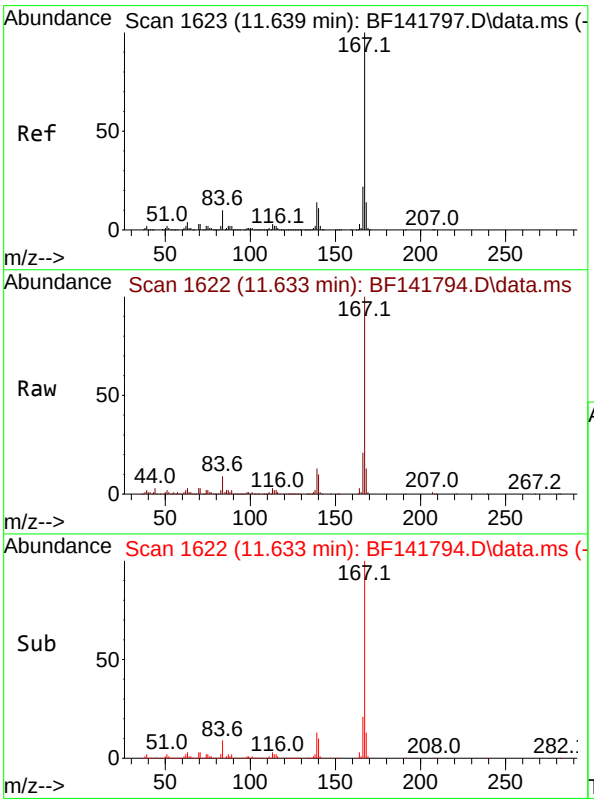
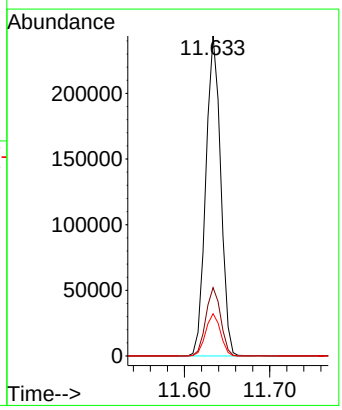
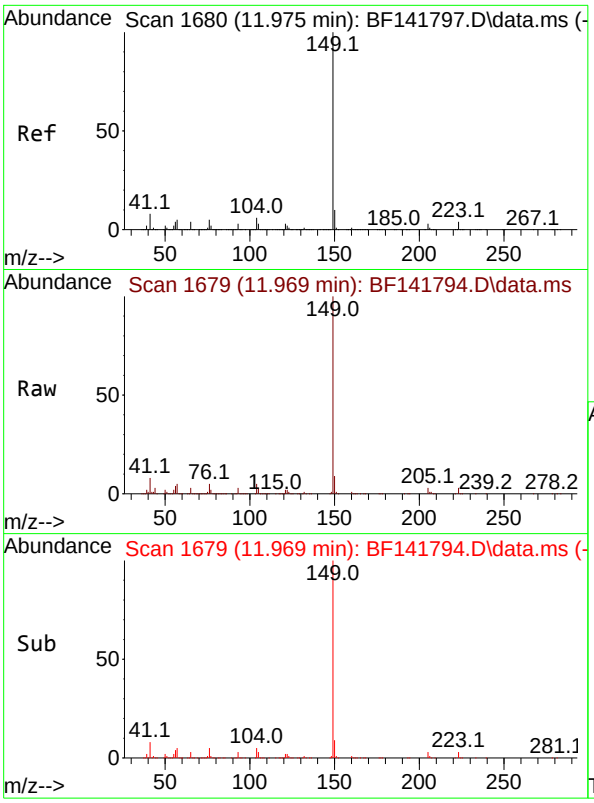


#73
Carbazole
Concen: 5.673 ng
RT: 11.633 min Scan# 1622
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:167 Resp: 295693

Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.5	26.3
139	13.2	11.3	16.9

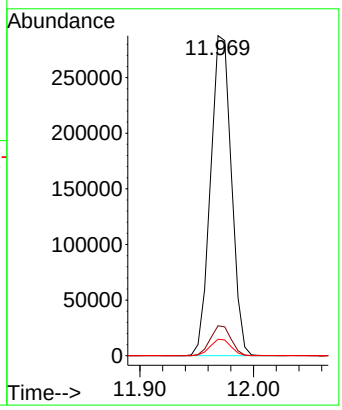




#74
Di-n-butylphthalate
Concen: 5.560 ng
RT: 11.969 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:149 Resp: 36734

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.7	11.5
104	5.1	4.4	6.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
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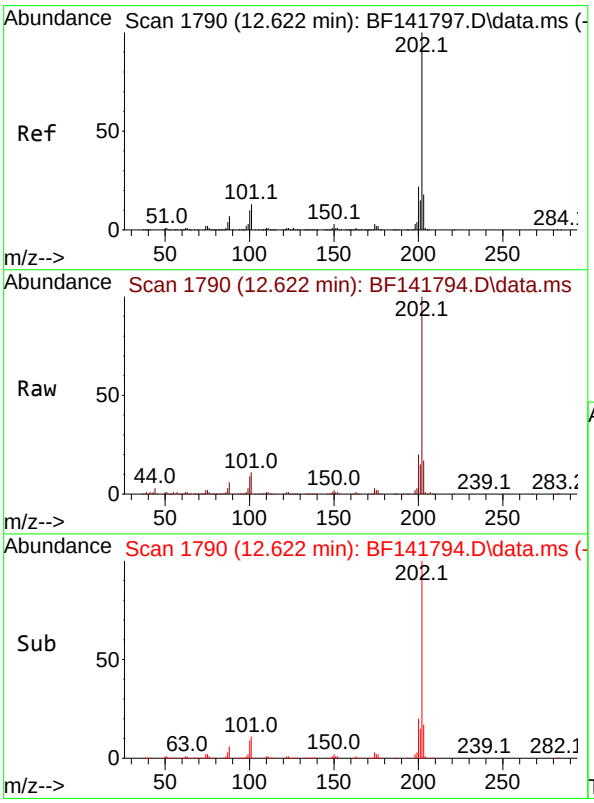
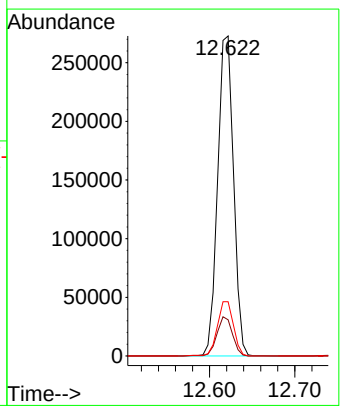
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

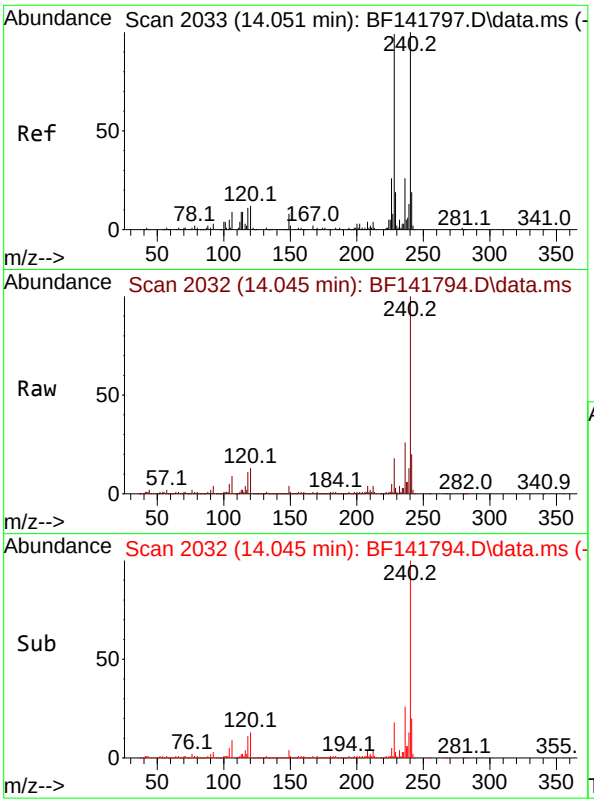


#75
Fluoranthene
Concen: 5.861 ng
RT: 12.622 min Scan# 1790
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:202 Resp: 353684

Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	32.8
203	16.9	0.0	38.0

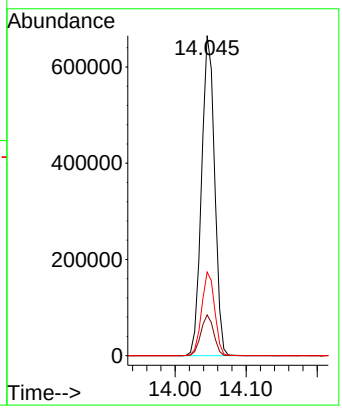




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:240 Resp: 85255

Ion	Ratio	Lower	Upper
240	100		
120	12.8	9.7	14.5
236	26.2	21.0	31.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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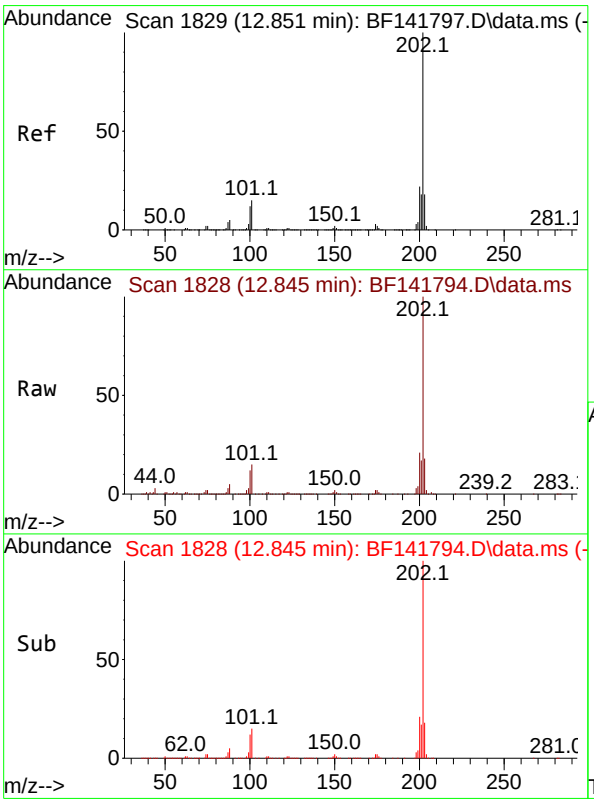
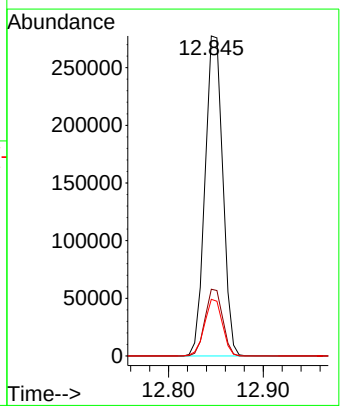
Supervised By :mohammad ahmed 02/28/2025

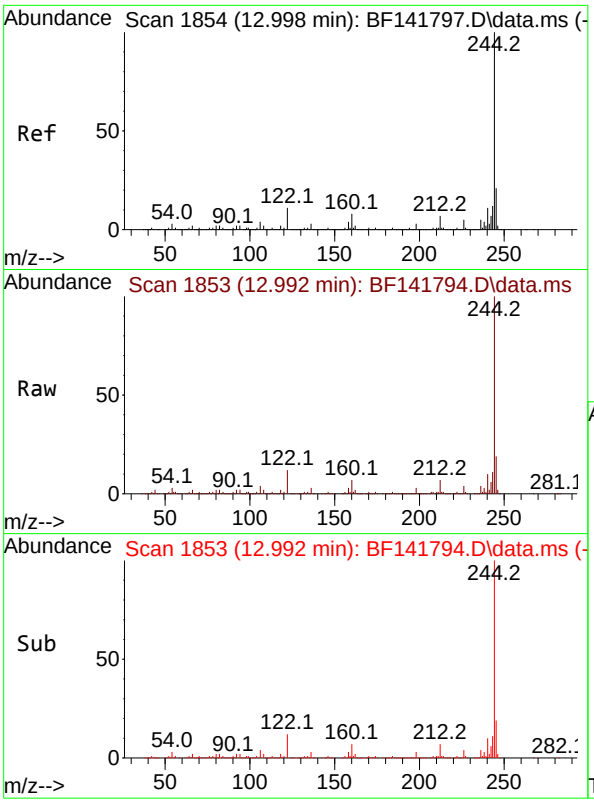


#78
Pyrene
Concen: 4.903 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:202 Resp: 361938

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.4	26.0
203	17.7	14.6	22.0

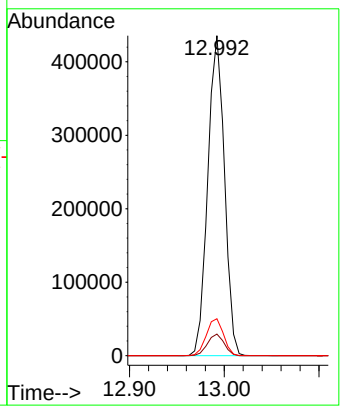




#79
Terphenyl-d14
Concen: 10.112 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:244 Resp: 53285

Ion	Ratio	Lower	Upper
244	100		
212	6.7	6.0	9.0
122	11.5	9.0	13.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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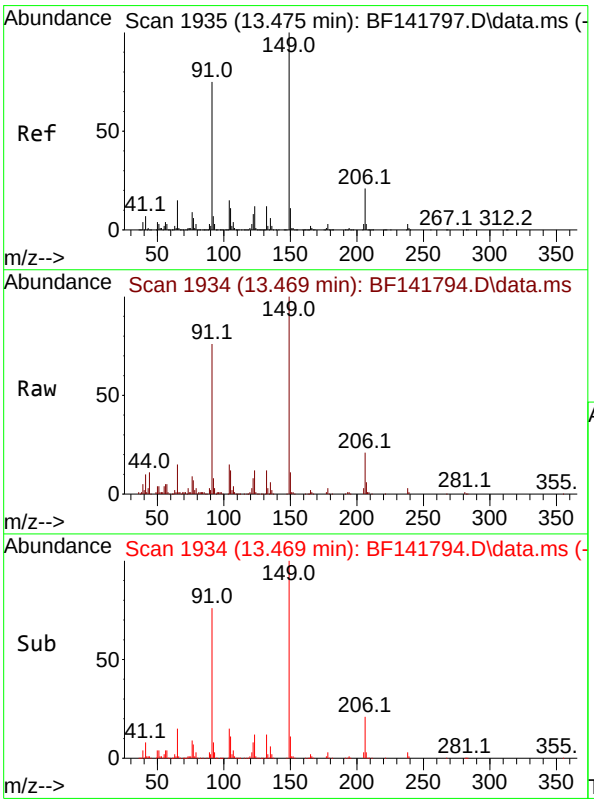
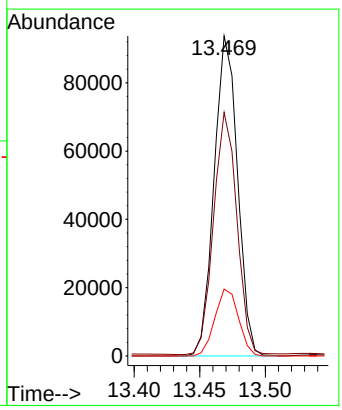
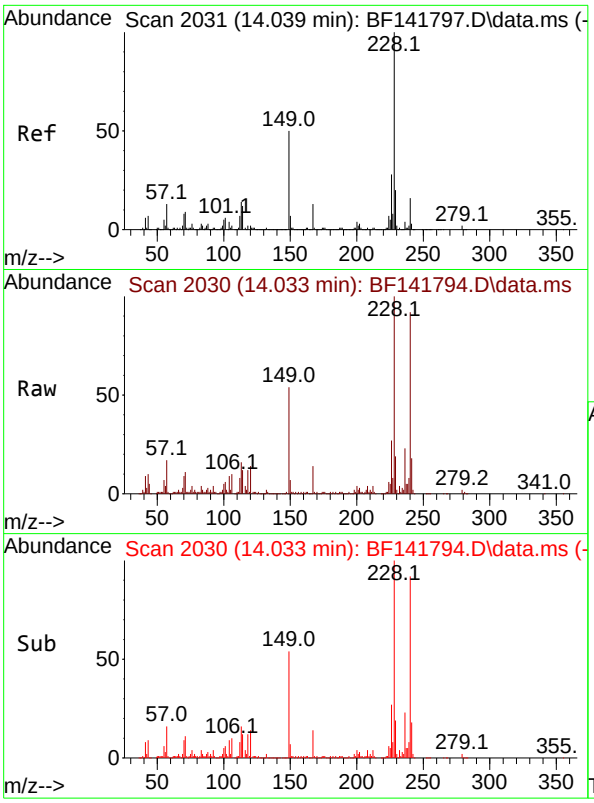


#80
Butylbenzylphthalate
Concen: 4.341 ng
RT: 13.469 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:149 Resp: 116439

Ion	Ratio	Lower	Upper
149	100		
91	76.1	60.1	90.1
206	20.9	16.8	25.2

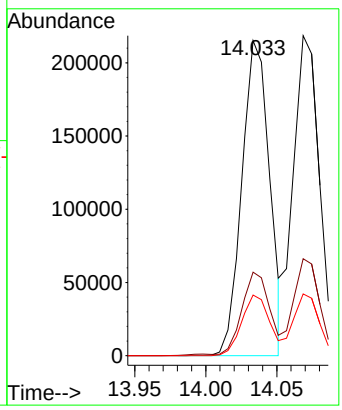




#81
Benzo(a)anthracene
Concen: 5.174 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:228 Resp: 29137

Ion	Ratio	Lower	Upper
228	100		
226	26.5	22.1	33.1
229	19.3	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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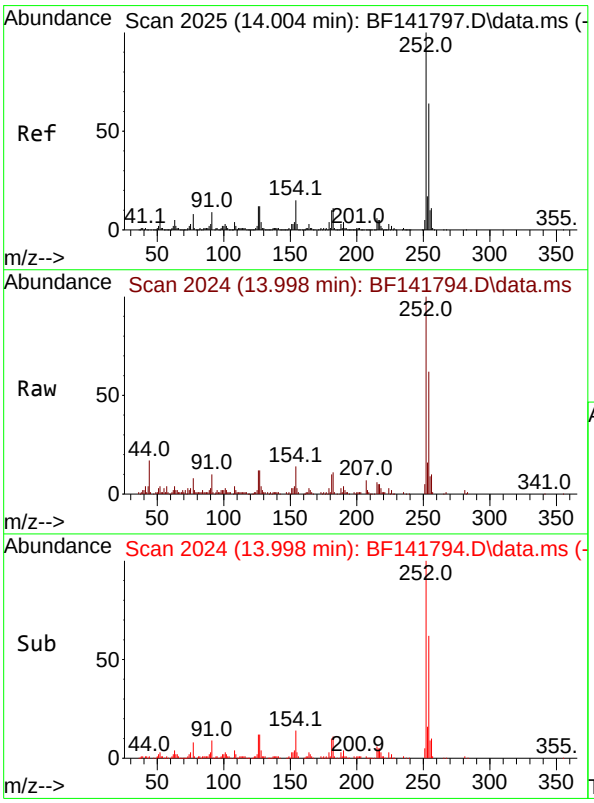
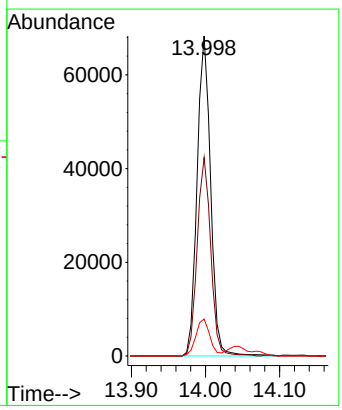
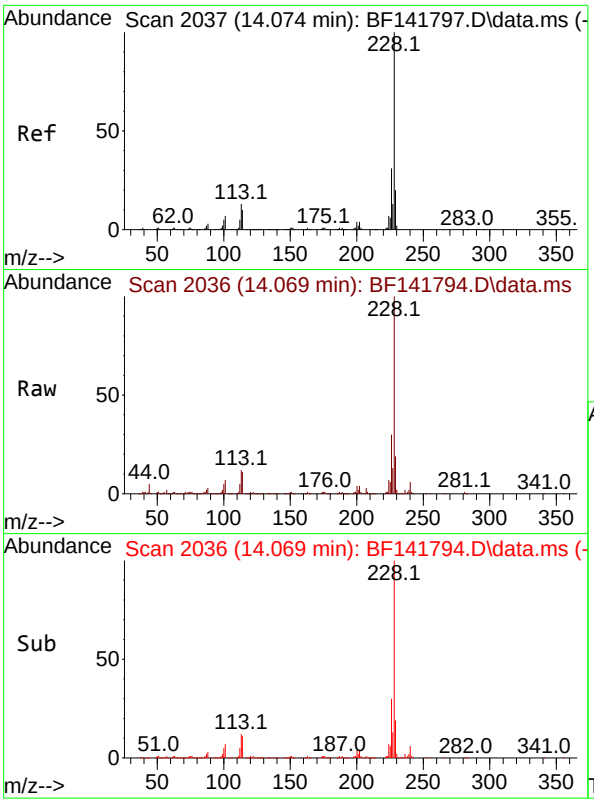


#82
3,3'-Dichlorobenzidine
Concen: 5.353 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:252 Resp: 86483

Ion	Ratio	Lower	Upper
252	100		
254	62.0	51.4	77.0
126	11.6	9.8	14.6

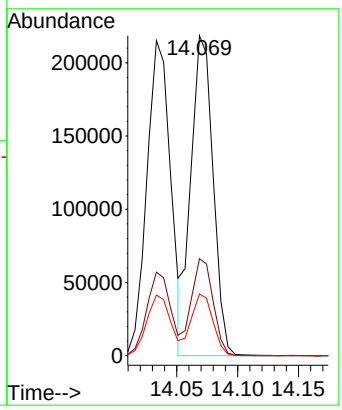




#83
Chrysene
Concen: 5.348 ng
RT: 14.069 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:228 Resp: 27763

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.6	37.0
229	19.3	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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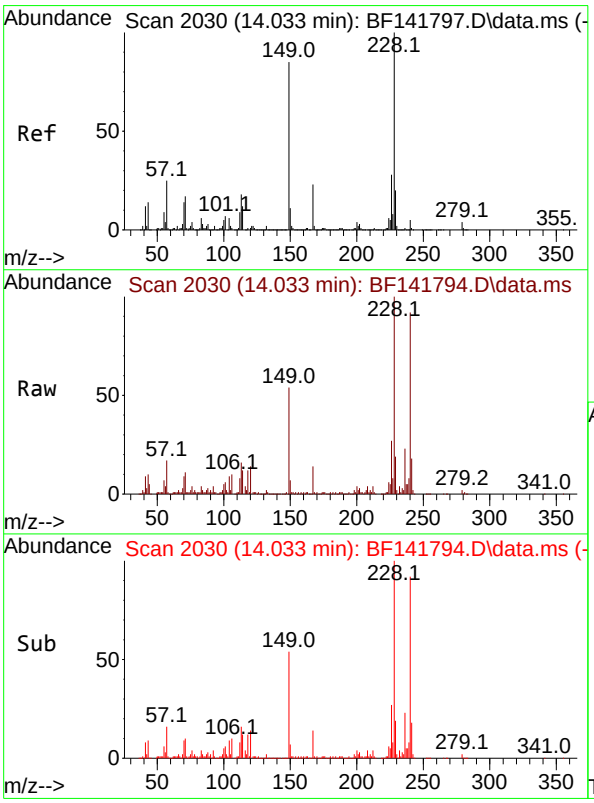
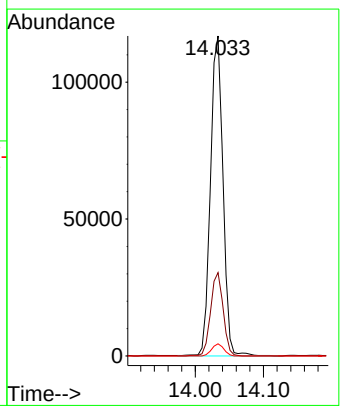
Supervised By :mohammad ahmed 02/28/2025

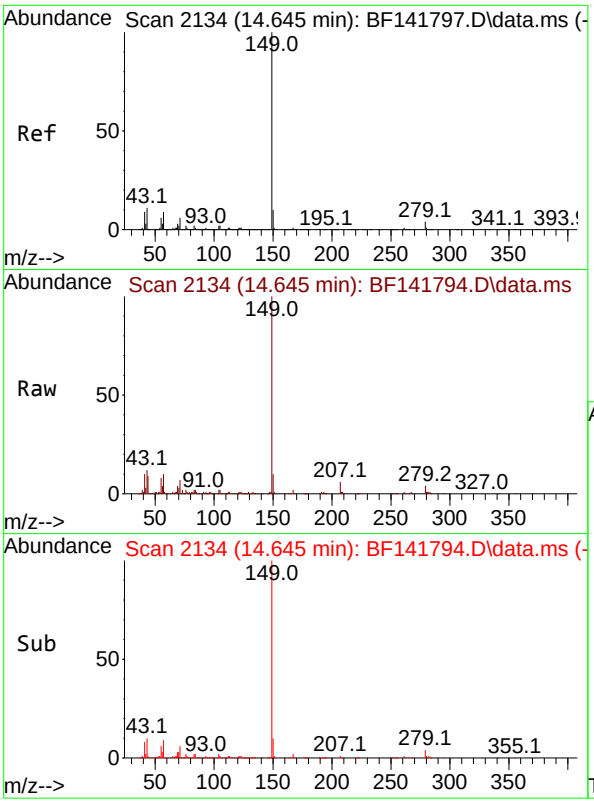


#84
Bis(2-ethylhexyl)phthalate
Concen: 4.482 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:149 Resp: 149689

Ion	Ratio	Lower	Upper
149	100		
167	26.1	21.2	31.8
279	3.8	3.3	4.9

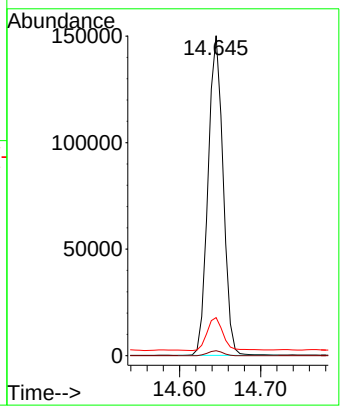




#85
Di-n-octyl phthalate
Concen: 3.848 ng
RT: 14.645 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:149 Resp: 19239

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	11.2	8.6	12.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
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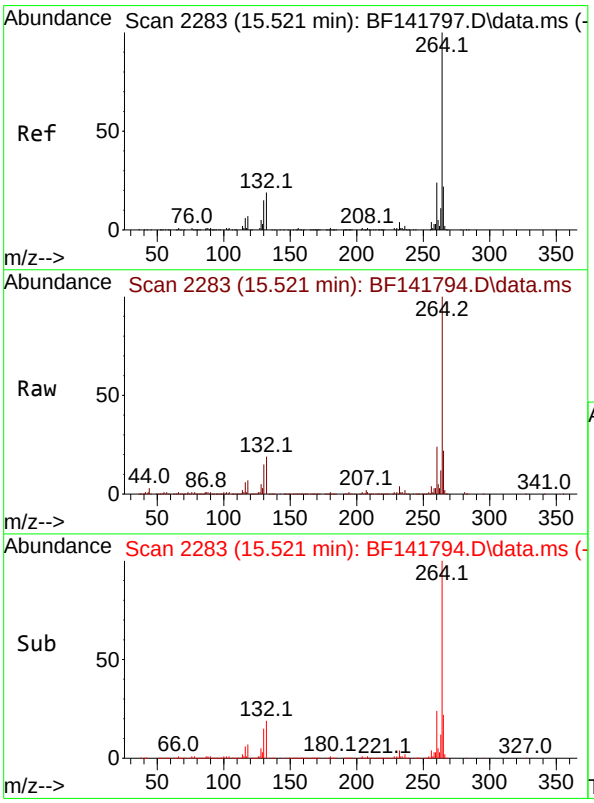
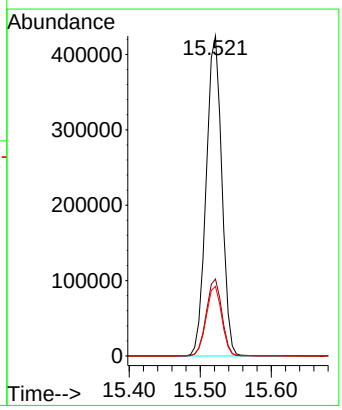
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

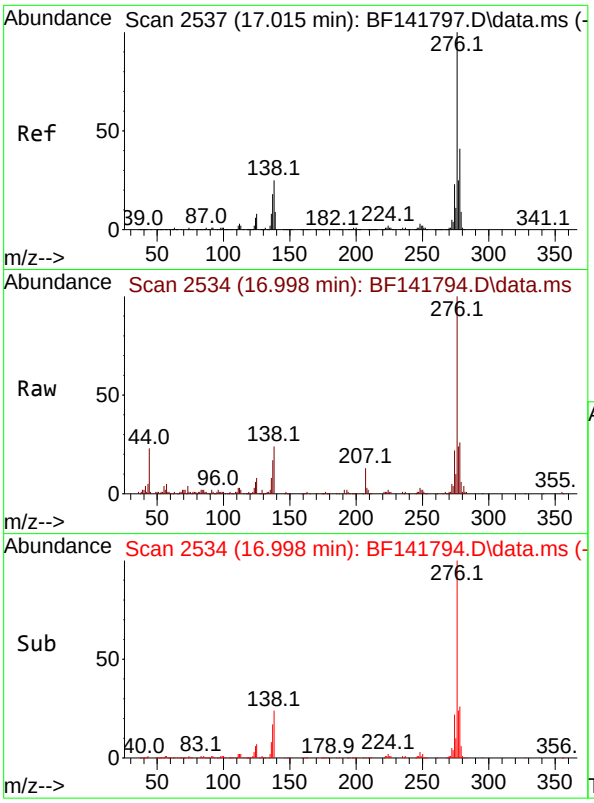


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:264 Resp: 648925

Ion	Ratio	Lower	Upper
264	100		
260	24.0	18.9	28.3
265	21.8	17.4	26.0

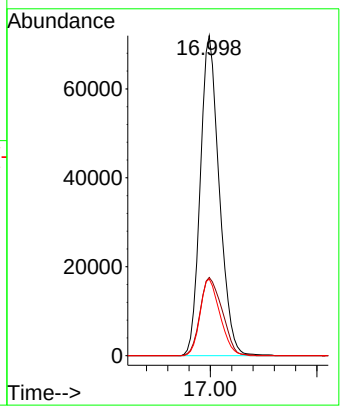




#87
Indeno(1,2,3-cd)pyrene
Concen: 4.309 ng
RT: 16.998 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:276 Resp: 17803

Ion	Ratio	Lower	Upper
276	100		
138	28.4	22.5	33.7
277	25.0	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
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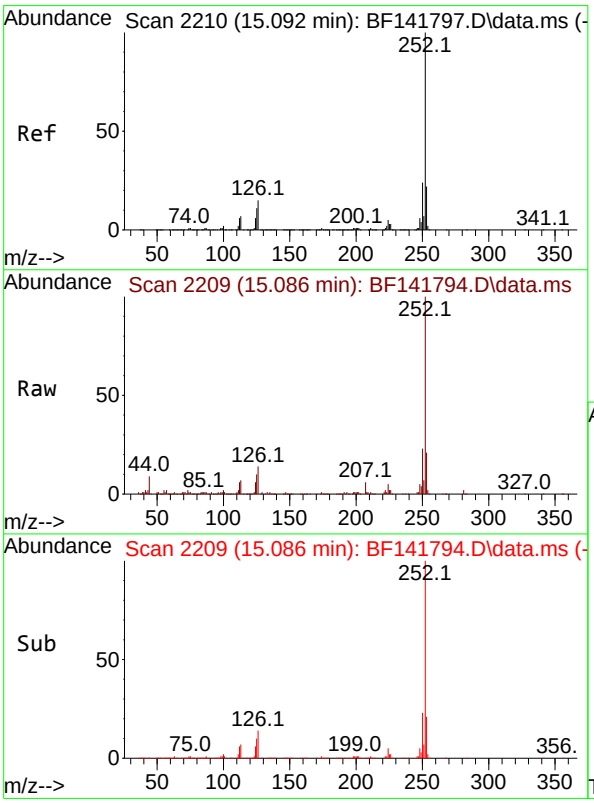
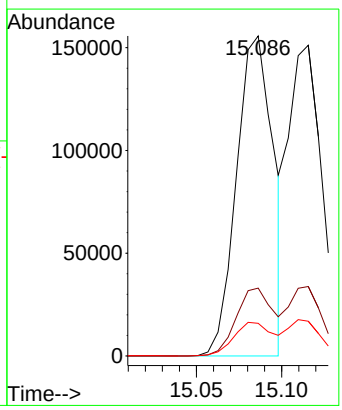
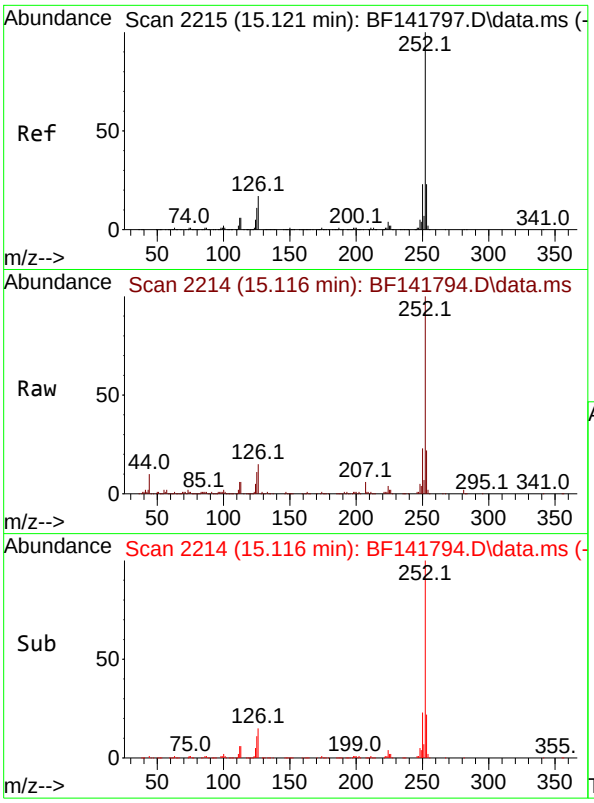


#88
Benzo(b)fluoranthene
Concen: 5.294 ng
RT: 15.086 min Scan# 2209
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:252 Resp: 233991

Ion	Ratio	Lower	Upper
252	100		
253	21.2	17.7	26.5
125	10.2	8.6	13.0

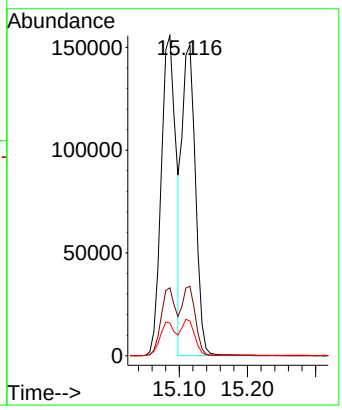




#89
Benzo(k)fluoranthene
Concen: 5.499 ng
RT: 15.116 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:252 Resp: 20661

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	11.2	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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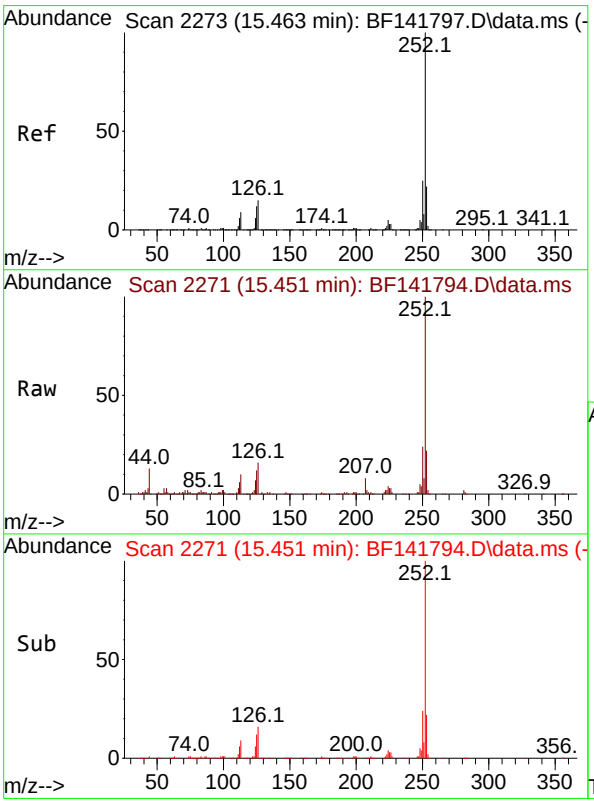
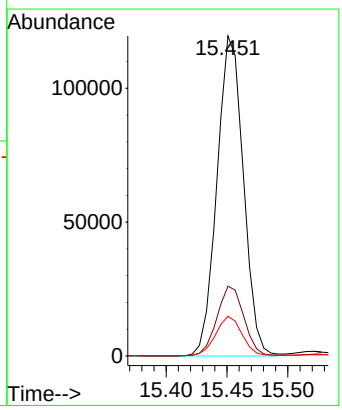
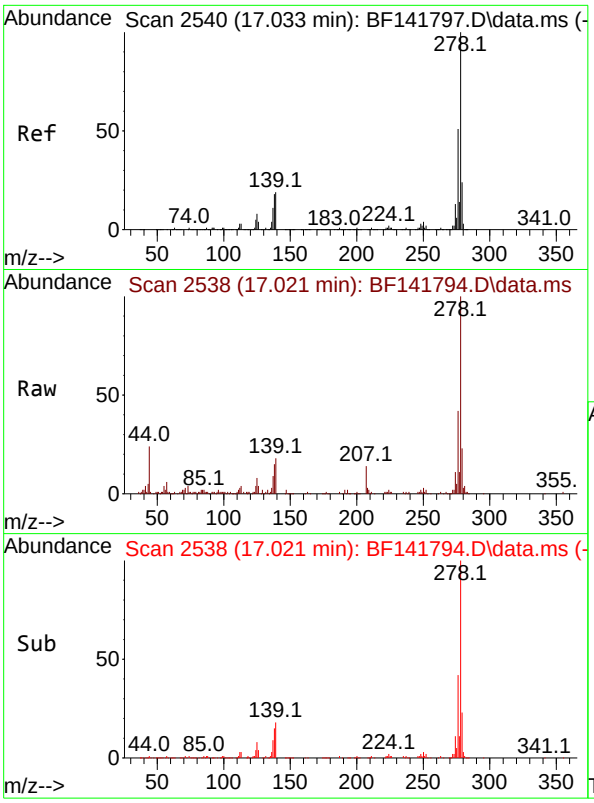


#90
Benzo(a)pyrene
Concen: 5.091 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:252 Resp: 180486

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	12.4	9.4	14.2

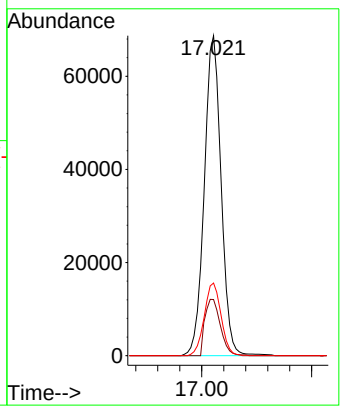




#91
Dibenzo(a,h)anthracene
Concen: 4.337 ng
RT: 17.021 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:278 Resp: 14627

Ion	Ratio	Lower	Upper
278	100		
139	17.5	14.9	22.3
279	22.7	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
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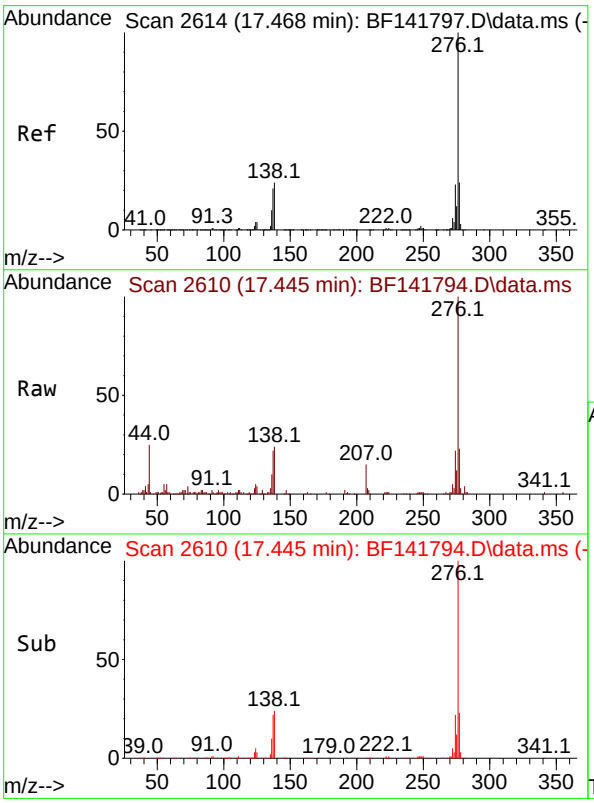
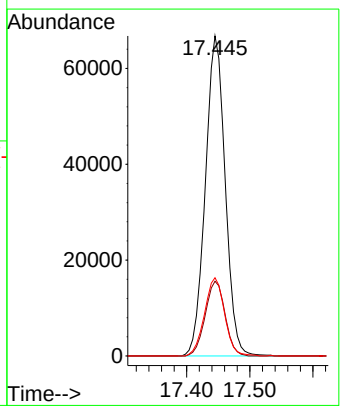
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025



#92
Benzo(g,h,i)perylene
Concen: 4.218 ng
RT: 17.445 min Scan# 2610
Delta R.T. -0.024 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:276 Resp: 145755

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.4	29.0
138	24.4	19.3	28.9



Quantitation Report (QT Reviewed)

ICAL Form

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Data File : BF141795.D
Acq On : 27 Feb 2025 16:16
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 01:24:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	289266	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	1173835	20.000	ng		0.00
39) Acenaphthene-d10	9.922	164	647904	20.000	ng		0.00
64) Phenanthrene-d10	11.410	188	1098842	20.000	ng		0.00
76) Chrysene-d12	14.045	240	800194	20.000	ng		0.00
86) Perylene-d12	15.521	264	586419	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.493	112	380350	20.998	ng		0.00
7) Phenol-d6	6.498	99	493731	20.942	ng		-0.01
23) Nitrobenzene-d5	7.445	82	318362	17.336	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	116043	19.078	ng		0.00
45) 2-Fluorobiphenyl	9.239	172	898797	22.244	ng		0.00
79) Terphenyl-d14	12.992	244	986786	19.952	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.687	88	80189	9.757	ng		99
3) Pyridine	3.451	79	204276	9.989	ng		99
4) n-Nitrosodimethylamine	3.381	42	96264	9.784	ng	#	97
6) Aniline	6.545	93	249709	10.243	ng		99
8) 2-Chlorophenol	6.669	128	203282	10.375	ng		97
9) Benzaldehyde	6.434	77	157352	11.474	ng		99
10) Phenol	6.510	94	263599m	10.494	ng		
11) bis(2-Chloroethyl)ether	6.616	93	198994	10.362	ng		100
12) 1,3-Dichlorobenzene	6.828	146	219862	10.478	ng		98
13) 1,4-Dichlorobenzene	6.904	146	221703	10.486	ng		100
14) 1,2-Dichlorobenzene	7.057	146	208788	10.575	ng		99
15) Benzyl Alcohol	7.016	79	195649	10.384	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.163	45	302932	10.387	ng		99
17) 2-Methylphenol	7.122	107	163693	10.121	ng		98
18) Hexachloroethane	7.404	117	78340	9.899	ng		97
19) n-Nitroso-di-n-propyla...	7.287	70	159860	10.315	ng		97
20) 3+4-Methylphenols	7.275	107	218359	10.842	ng	#	90
22) Acetophenone	7.292	105	303217	10.606	ng	#	95
24) Nitrobenzene	7.463	77	178109	9.057	ng		97
25) Isophorone	7.698	82	400228	10.145	ng		99
26) 2-Nitrophenol	7.781	139	52703	9.980	ng		99
27) 2,4-Dimethylphenol	7.810	122	146519	10.103	ng		99
28) bis(2-Chloroethoxy)met...	7.910	93	262861	10.445	ng		98
29) 2,4-Dichlorophenol	8.016	162	169218	10.114	ng		99
30) 1,2,4-Trichlorobenzene	8.110	180	188296	10.271	ng		98
31) Naphthalene	8.192	128	643621	10.668	ng		98
32) Benzoic acid	7.875	122	58209	11.729	ng		98
33) 4-Chloroaniline	8.234	127	230342	10.413	ng		99
34) Hexachlorobutadiene	8.310	225	113140	9.931	ng		99
35) Caprolactam	8.569	113	50734	9.855	ng		100
36) 4-Chloro-3-methylphenol	8.698	107	185621	9.987	ng		99
37) 2-Methylnaphthalene	8.881	142	425720	10.758	ng		100
38) 1-Methylnaphthalene	8.981	142	404087	10.642	ng		98
40) 1,2,4,5-Tetrachloroben...	9.045	216	194342	10.386	ng		99
41) Hexachlorocyclopentadiene	9.033	237	74446	9.533	ng		99
43) 2,4,6-Trichlorophenol	9.151	196	119234	9.864	ng		100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141795.D
Acq On : 27 Feb 2025 16:16
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 28 01:24:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	118017	9.860	ng		99
46) 1,1'-Biphenyl	9.345	154	537368	10.896	ng		98
47) 2-Chloronaphthalene	9.369	162	383444	10.535	ng		98
48) 2-Nitroaniline	9.457	65	60658	9.877	ng		96
49) Acenaphthylene	9.786	152	586066	10.739	ng		99
50) Dimethylphthalate	9.639	163	455190	10.491	ng		99
51) 2,6-Dinitrotoluene	9.698	165	59617	9.588	ng		98
52) Acenaphthene	9.957	154	389154	10.568	ng		99
53) 3-Nitroaniline	9.863	138	62569	9.606	ng	#	91
54) 2,4-Dinitrophenol	9.969	184	15803	10.881	ng	#	1
55) Dibenzofuran	10.128	168	581120	10.843	ng		97
56) 4-Nitrophenol	10.004	139	51406	8.022	ng		94
57) 2,4-Dinitrotoluene	10.098	165	64291	9.401	ng		97
58) Fluorene	10.469	166	442697	11.027	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	101729	9.772	ng		99
60) Diethylphthalate	10.339	149	457600	10.520	ng		98
61) 4-Chlorophenyl-phenyle...	10.463	204	215289	10.703	ng		98
62) 4-Nitroaniline	10.475	138	60552	8.172	ng		94
63) Azobenzene	10.622	77	486878	10.631	ng		98
65) 4,6-Dinitro-2-methylph...	10.504	198	23863	11.957	ng		98
66) n-Nitrosodiphenylamine	10.580	169	374119	10.369	ng		99
67) 4-Bromophenyl-phenylether	10.951	248	130467	10.165	ng		99
68) Hexachlorobenzene	11.016	284	136626	10.081	ng		97
69) Atrazine	11.104	200	114276	11.517	ng		99
70) Pentachlorophenol	11.204	266	80231	9.334	ng		99
71) Phenanthrene	11.433	178	632699	10.764	ng		99
72) Anthracene	11.486	178	635314	10.785	ng		99
73) Carbazole	11.633	167	554900	10.667	ng		99
74) Di-n-butylphthalate	11.969	149	709254	10.756	ng		99
75) Fluoranthene	12.621	202	668370	11.098	ng		98
77) Benzidine	12.739	184	136857	13.588	ng		99
78) Pyrene	12.851	202	674877	9.740	ng		99
80) Butylbenzylphthalate	13.469	149	231474	9.194	ng		98
81) Benzo(a)anthracene	14.033	228	554778	10.496	ng		99
82) 3,3'-Dichlorobenzidine	13.998	252	152147	10.033	ng		99
83) Chrysene	14.074	228	473612	9.721	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	278482	8.884	ng		99
85) Di-n-octyl phthalate	14.645	149	368711	7.857	ng		100
87) Indeno(1,2,3-cd)pyrene	16.998	276	330014	8.838	ng		99
88) Benzo(b)fluoranthene	15.086	252	409420	10.250	ng		99
89) Benzo(k)fluoranthene	15.115	252	363518	10.707	ng		99
90) Benzo(a)pyrene	15.451	252	317564	9.913	ng		99
91) Dibenzo(a,h)anthracene	17.021	278	272918	8.954	ng		98
92) Benzo(g,h,i)perylene	17.445	276	272428	8.724	ng		98

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

ICAL Form

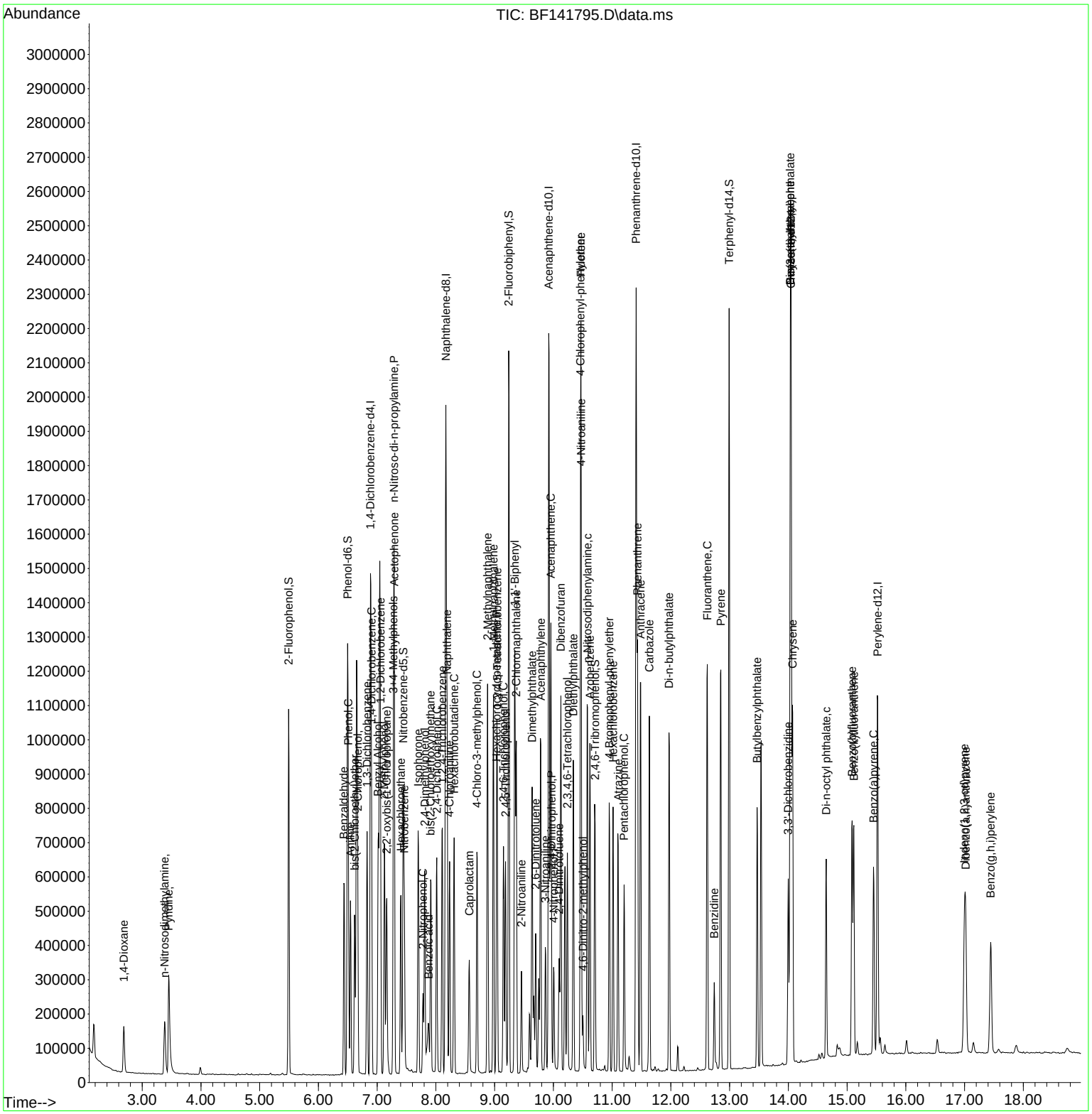
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141795.D
Acq On : 27 Feb 2025 16:16
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

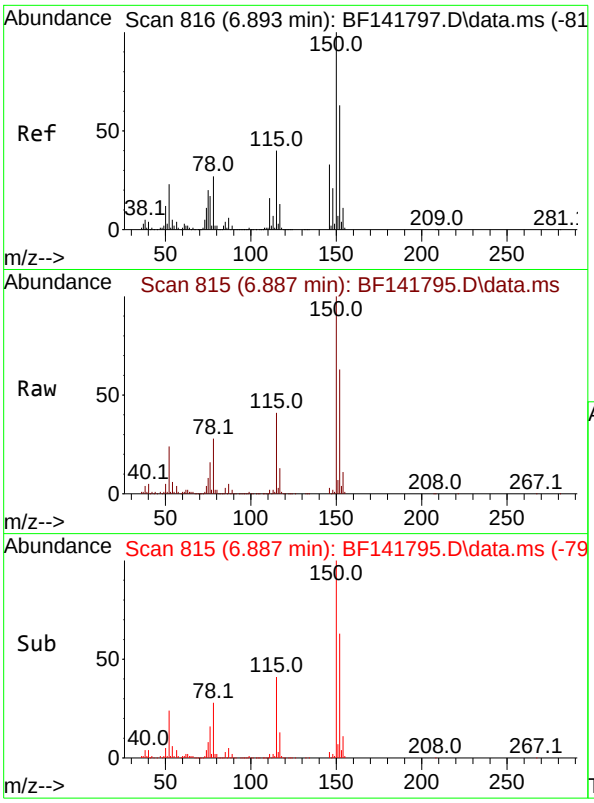
Quant Time: Feb 28 01:24:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

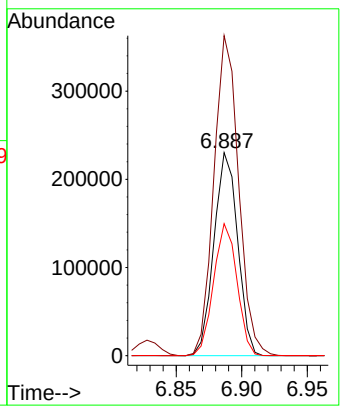




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:152 Resp: 28926

Ion	Ratio	Lower	Upper
152	100		
150	157.6	127.5	191.3
115	65.0	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

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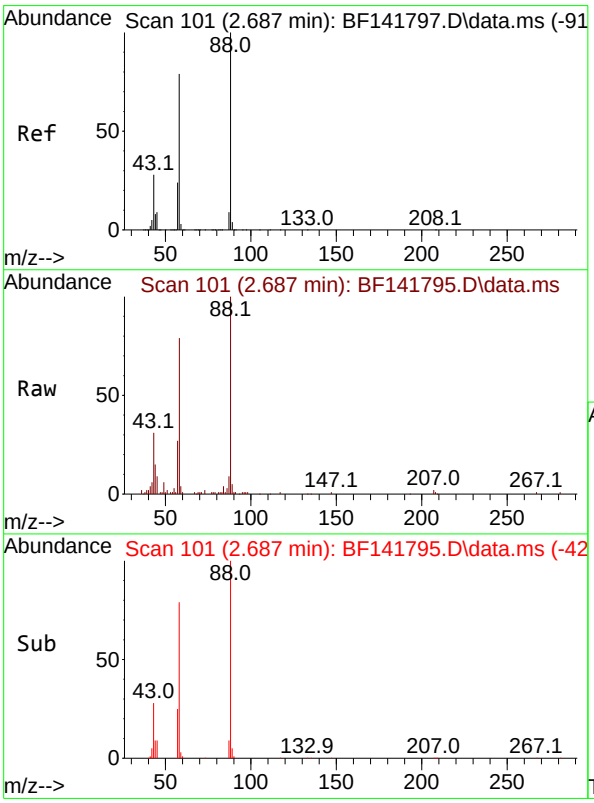
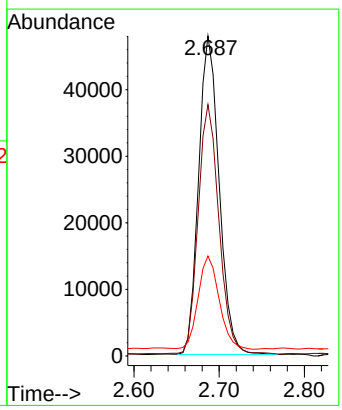
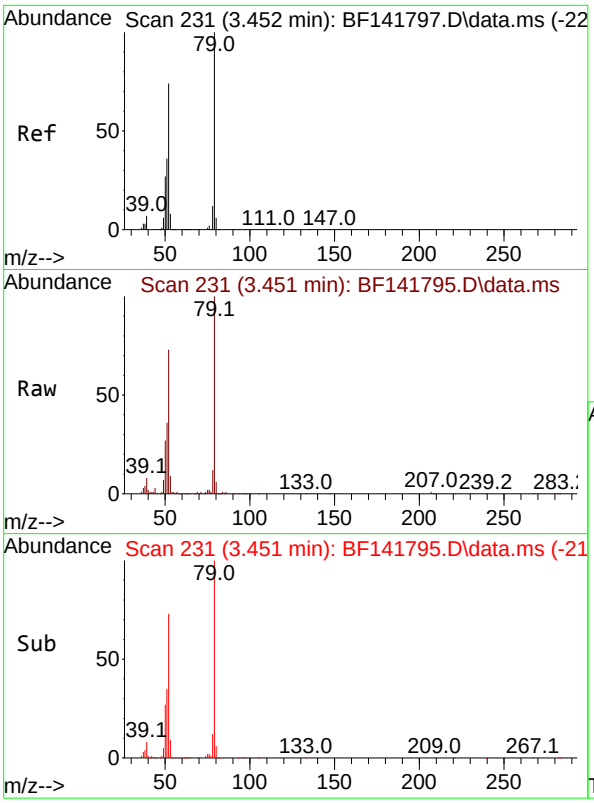


#2
1,4-Dioxane
Concen: 9.757 ng
RT: 2.687 min Scan# 101
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 88 Resp: 80189

Ion	Ratio	Lower	Upper
88	100		
58	79.3	63.9	95.9
43	30.0	23.0	34.6

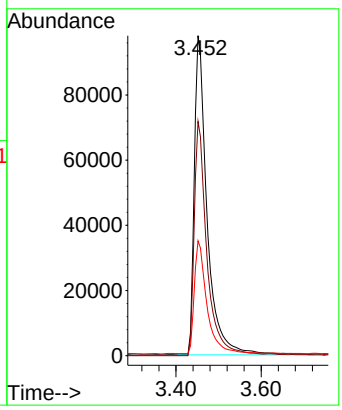




#3
Pyridine
Concen: 9.989 ng
RT: 3.451 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 79 Resp: 20427

Ion	Ratio	Lower	Upper
79	100		
52	73.2	59.0	88.4
51	35.9	29.0	43.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

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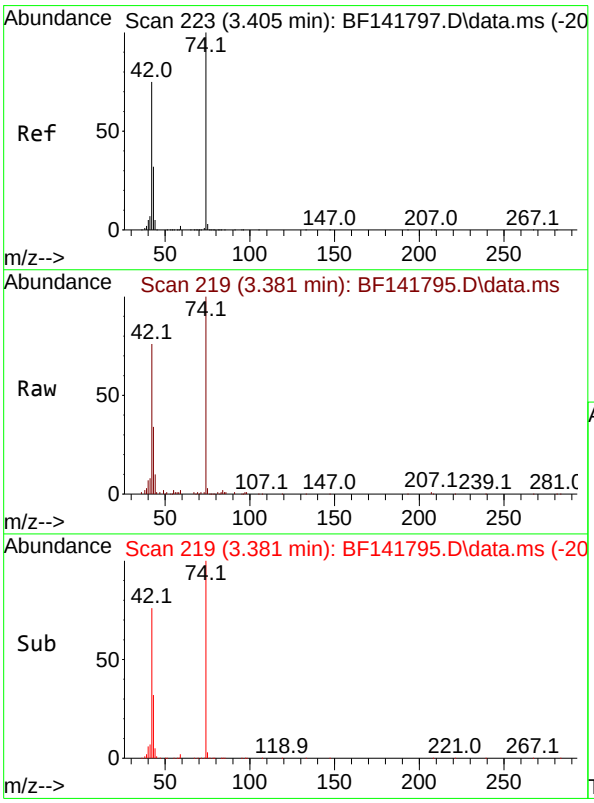
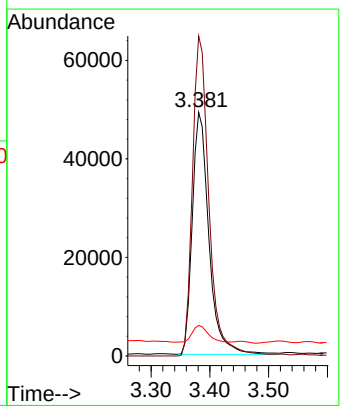
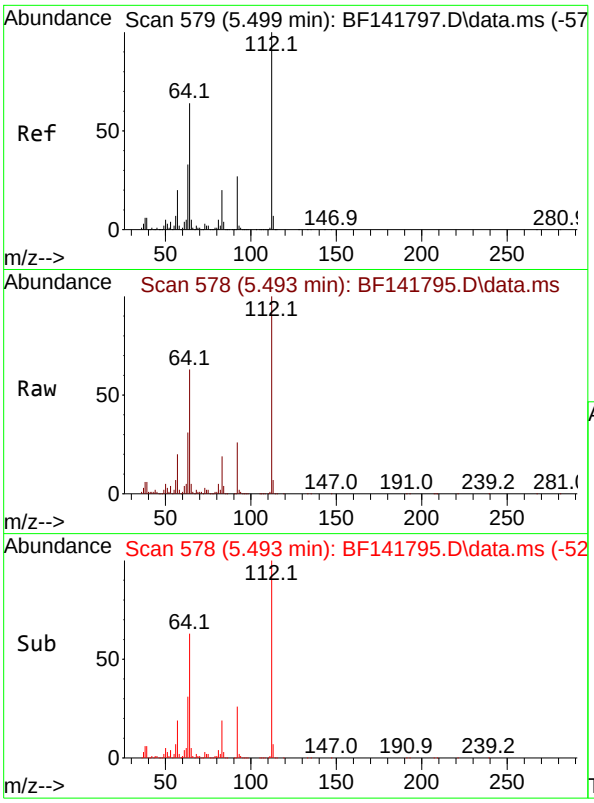


#4
n-Nitrosodimethylamine
Concen: 9.784 ng
RT: 3.381 min Scan# 219
Delta R.T. -0.024 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 42 Resp: 96264

Ion	Ratio	Lower	Upper
42	100		
74	131.3	107.1	160.7
44	12.5	6.6	9.8#





#5
2-Fluorophenol
Concen: 20.998 ng
RT: 5.493 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:112 Resp: 38035

Ion	Ratio	Lower	Upper
112	100		
64	63.0	51.3	76.9
63	31.3	26.2	39.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

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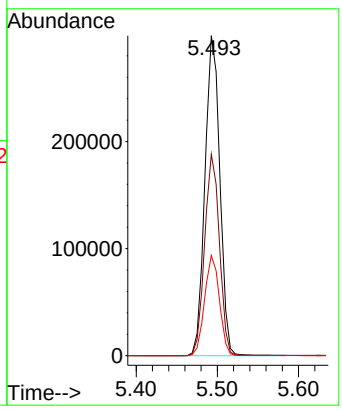
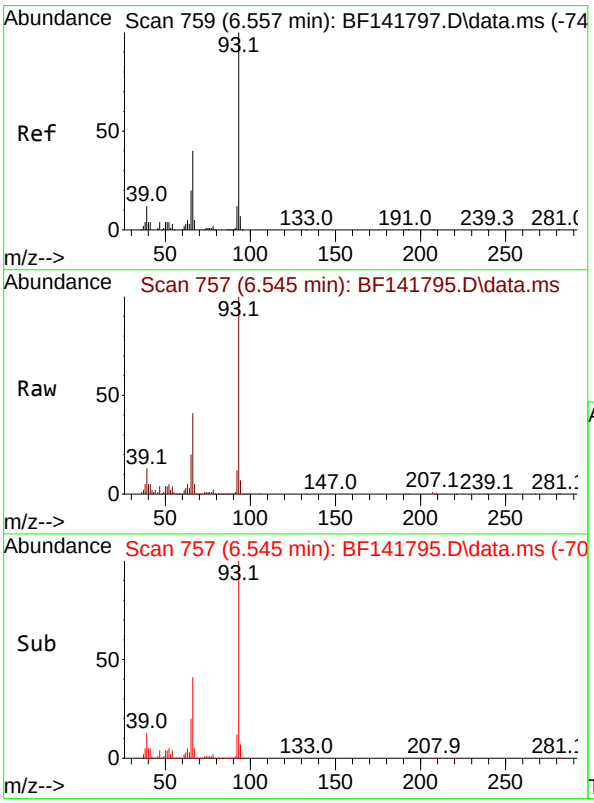
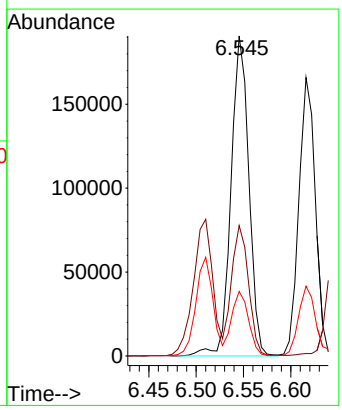


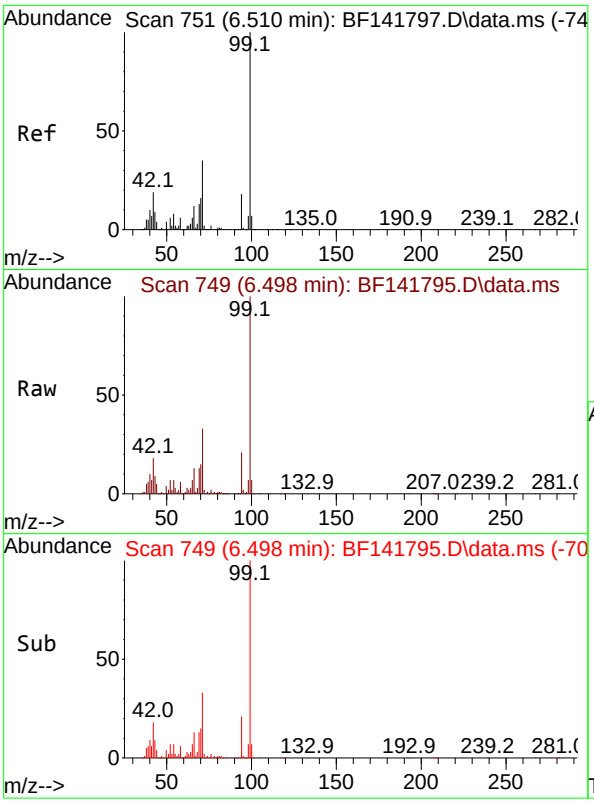


#6
Aniline
Concen: 10.243 ng
RT: 6.545 min Scan# 757
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 93 Resp: 249709

Ion	Ratio	Lower	Upper
93	100		
66	40.8	32.3	48.5
65	20.2	15.9	23.9

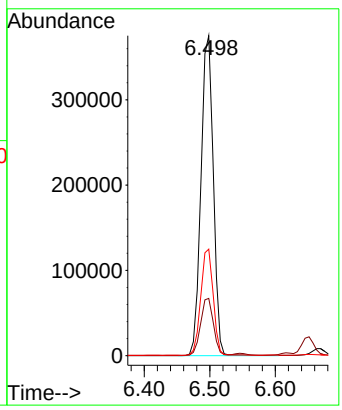




#7
Phenol-d6
Concen: 20.942 ng
RT: 6.498 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 99 Resp: 49373

Ion	Ratio	Lower	Upper
99	100		
42	17.9	15.2	22.8
71	33.3	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
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Reviewed By :Yogesh Patel 02/28/2025
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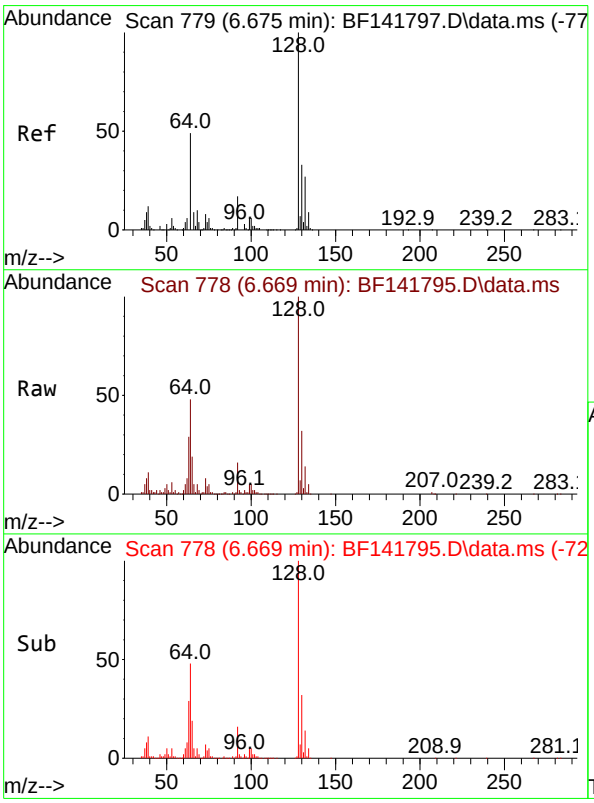
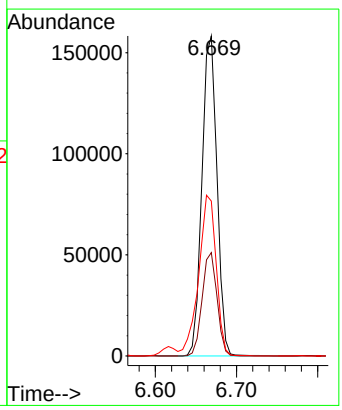
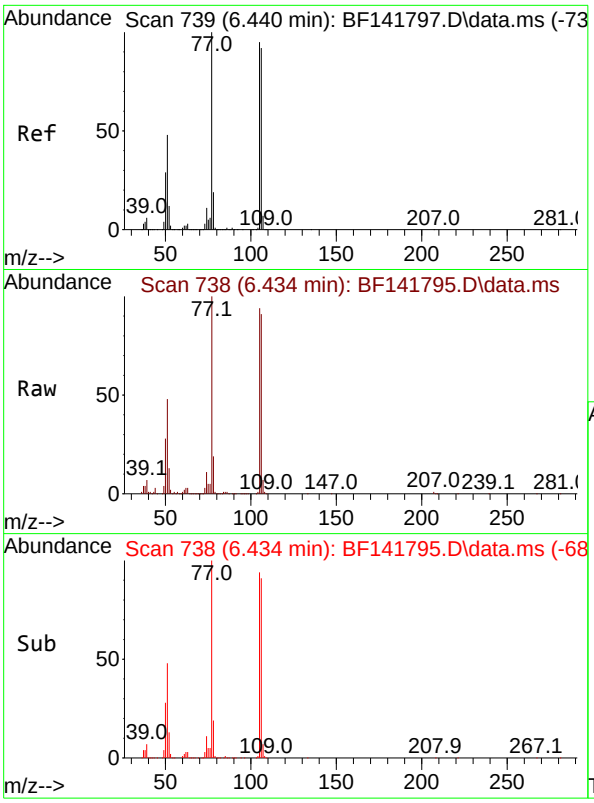


#8
2-Chlorophenol
Concen: 10.375 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:128 Resp: 203282

Ion	Ratio	Lower	Upper
128	100		
130	32.3	12.6	52.6
64	48.4	31.1	71.1

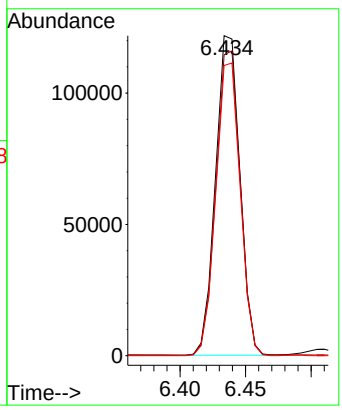




#9
Benzaldehyde
Concen: 11.474 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 77 Resp: 15735

Ion	Ratio	Lower	Upper
77	100		
105	94.0	75.3	115.3
106	90.7	72.3	112.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

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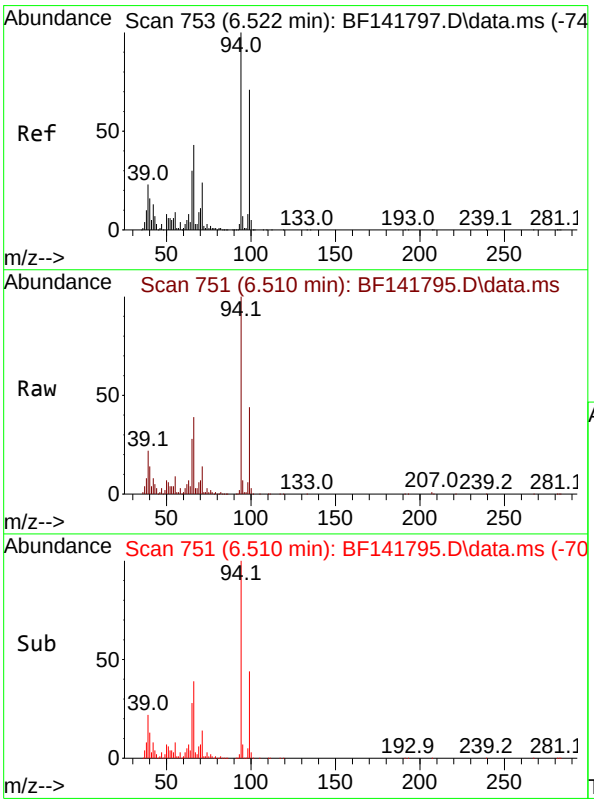
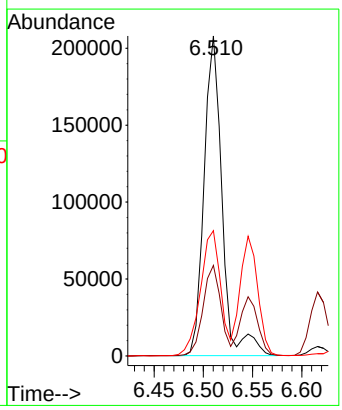
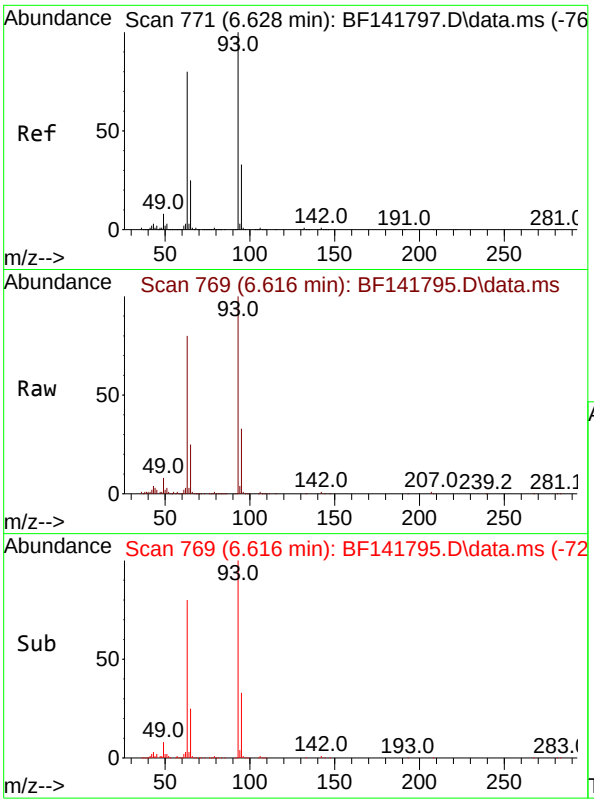


#10
Phenol
Concen: 10.494 ng m
RT: 6.510 min Scan# 751
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 94 Resp: 263599

Ion	Ratio	Lower	Upper
94	100		
65	28.3	10.2	50.2
66	39.2	23.2	63.2

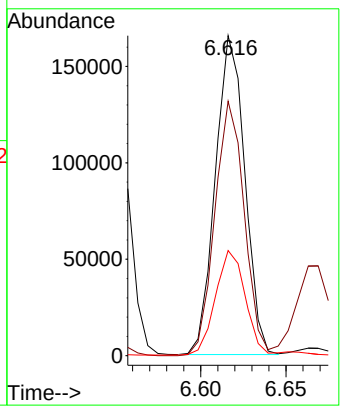




#11
bis(2-Chloroethyl)ether
Concen: 10.362 ng
RT: 6.616 min Scan# 7(
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 93 Resp: 19899

Ion	Ratio	Lower	Upper
93	100		
63	79.5	59.3	99.3
95	32.8	13.2	53.2



Instrument :
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ClientSampleId :
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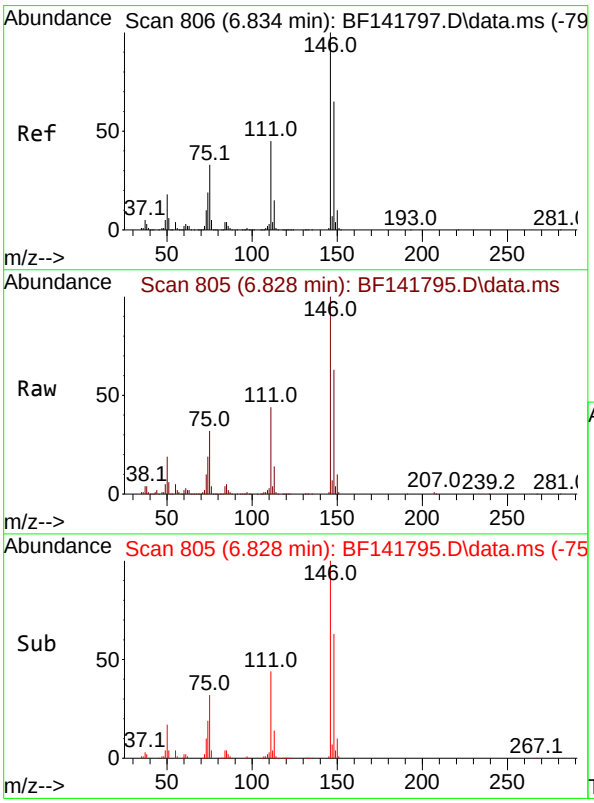
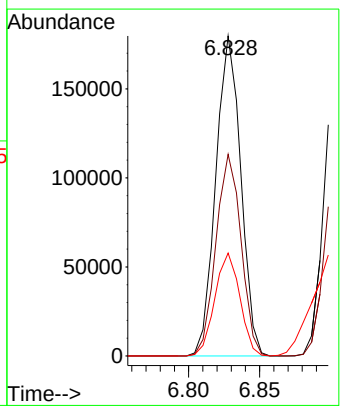
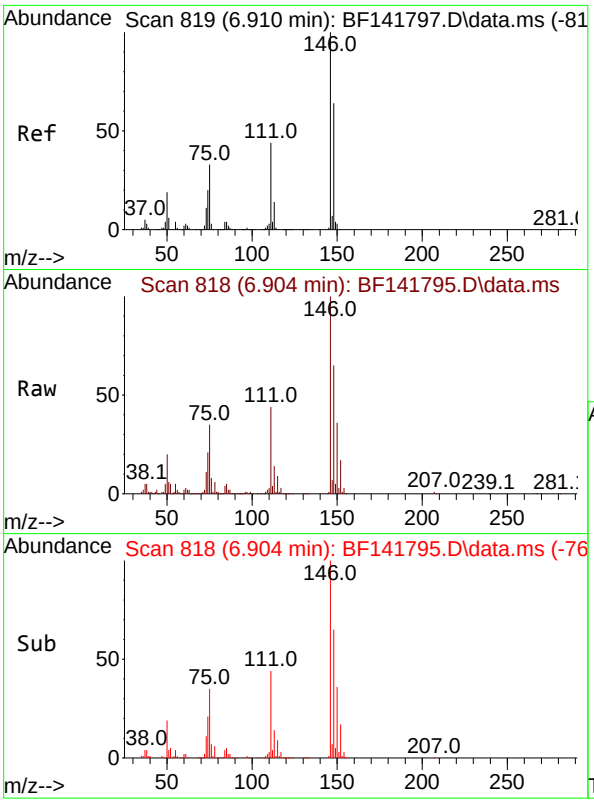


#12
1,3-Dichlorobenzene
Concen: 10.478 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:146 Resp: 219862

Ion	Ratio	Lower	Upper
146	100		
148	63.0	51.8	77.6
75	32.2	26.2	39.4

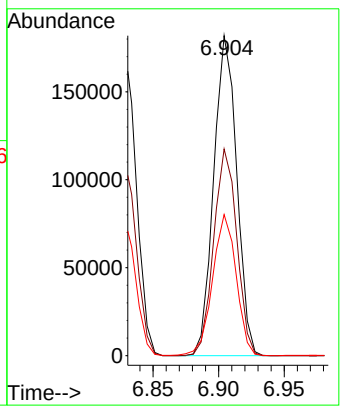




#13
1,4-Dichlorobenzene
Concen: 10.486 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:146 Resp: 22170

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.4	77.2
111	44.1	35.5	53.3



Instrument :
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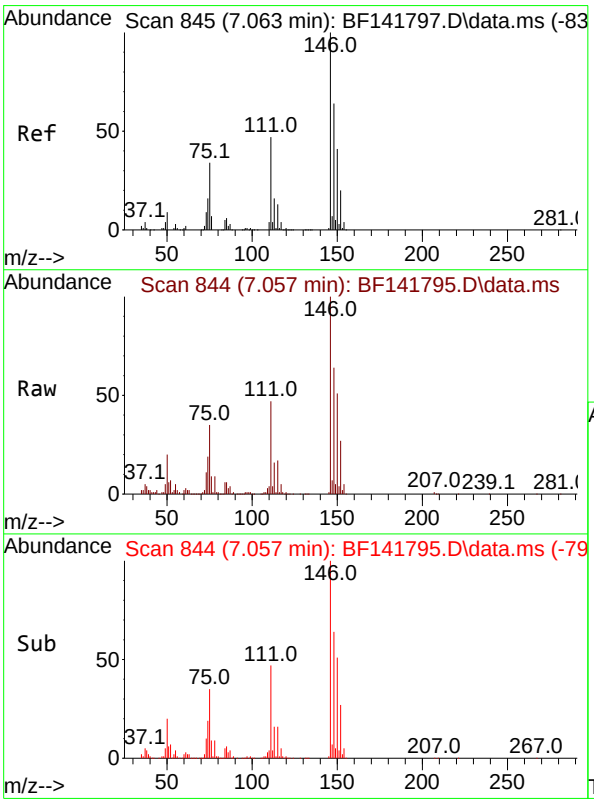
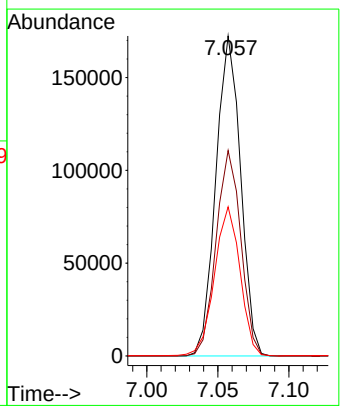
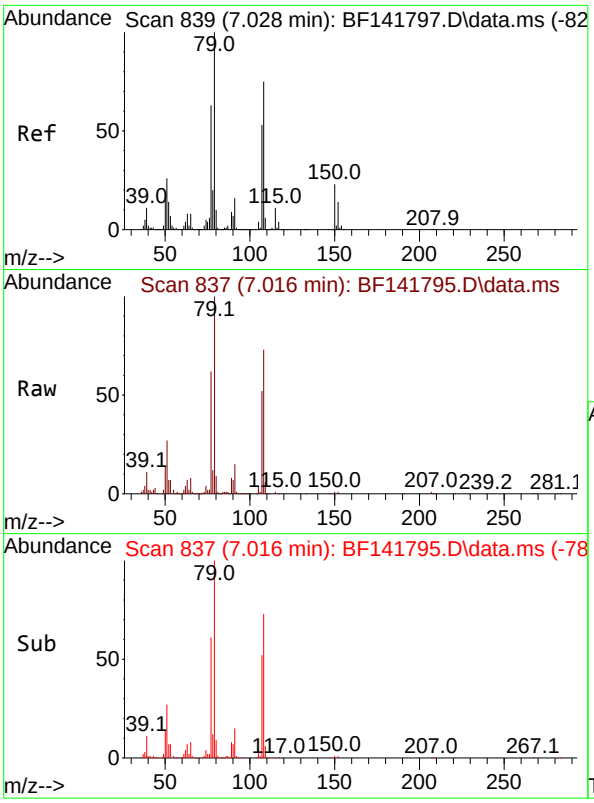


#14
1,2-Dichlorobenzene
Concen: 10.575 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:146 Resp: 208788

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.2	76.8
111	46.6	37.8	56.6





#15
Benzyl Alcohol
Concen: 10.384 ng
RT: 7.016 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 79 Resp: 19564

Ion	Ratio	Lower	Upper
79	100		
108	73.1	60.2	90.2
77	61.6	50.2	75.2

Instrument :
BNA_F
ClientSampleId :
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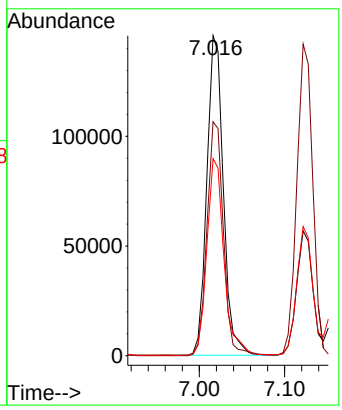
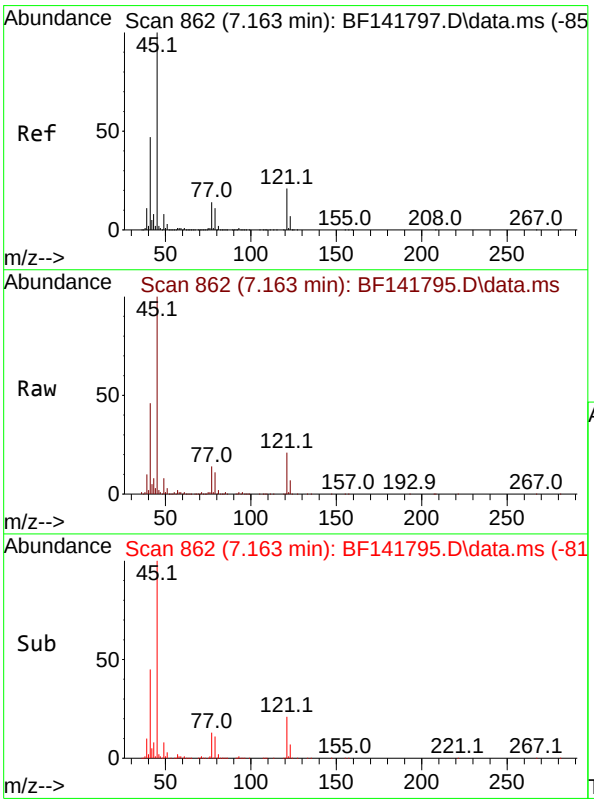
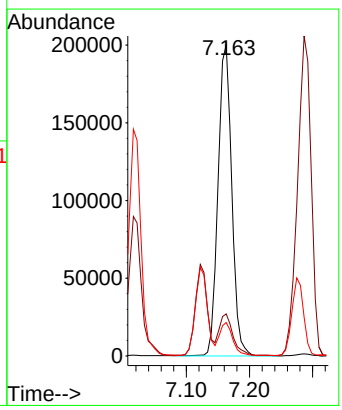


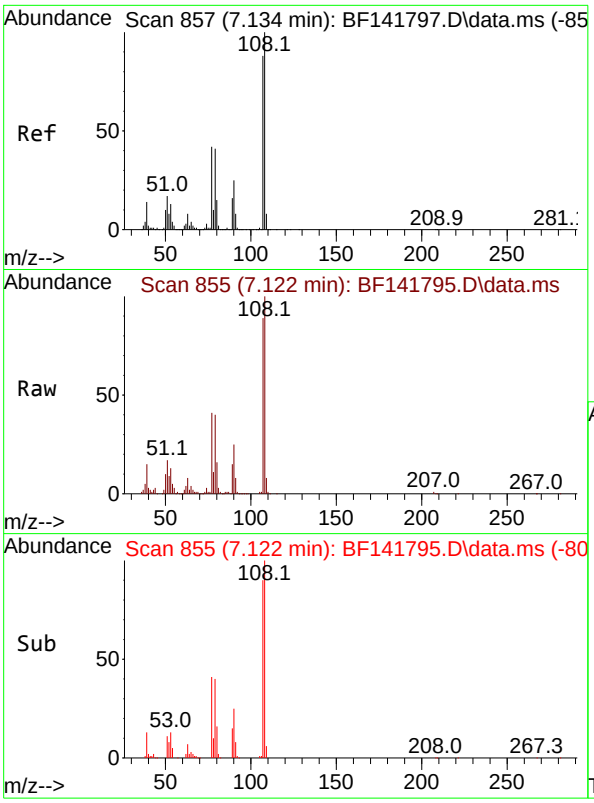


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.387 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 45 Resp: 302932

Ion	Ratio	Lower	Upper
45	100		
77	13.6	0.0	34.4
79	10.7	0.0	30.9

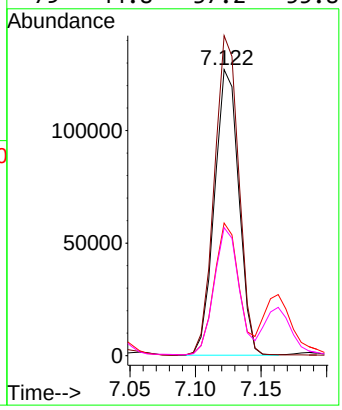




#17
2-Methylphenol
Concen: 10.121 ng
RT: 7.122 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:107 Resp: 16369

Ion	Ratio	Lower	Upper
107	100		
108	111.8	90.6	135.8
77	46.3	37.7	56.5
79	44.8	37.2	55.8



Instrument :
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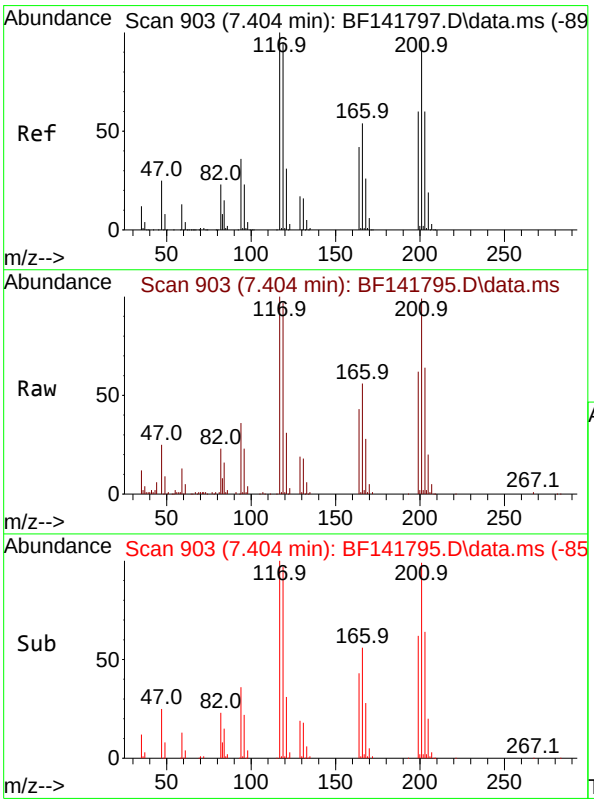
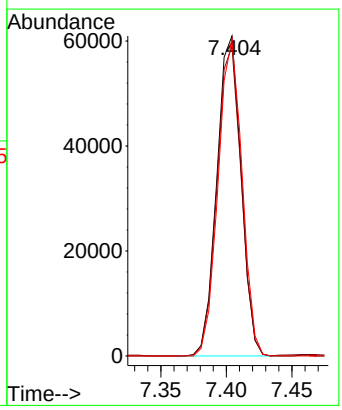
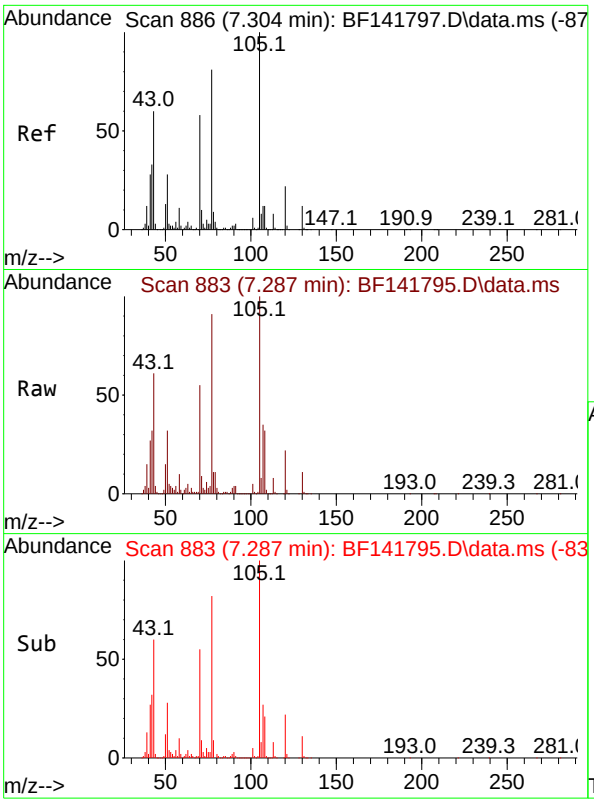


#18
Hexachloroethane
Concen: 9.899 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:117 Resp: 78340

Ion	Ratio	Lower	Upper
117	100		
119	96.7	75.8	113.8
201	99.1	76.7	115.1

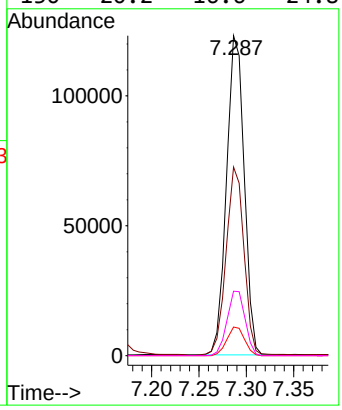




#19
n-Nitroso-di-n-propylamine
Concen: 10.315 ng
RT: 7.287 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 70 Resp: 15986

Ion	Ratio	Lower	Upper
70	100		
42	58.9	45.4	68.0
101	8.9	7.8	11.8
130	20.2	16.6	24.8



Instrument :
BNA_F
ClientSampleId :
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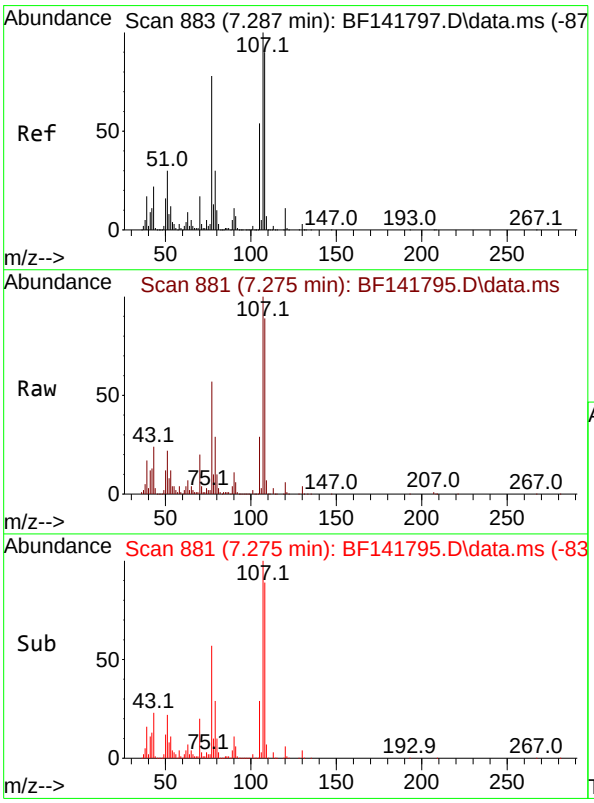
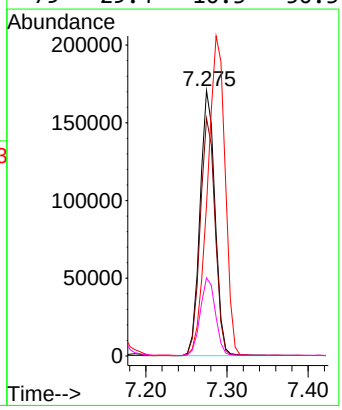
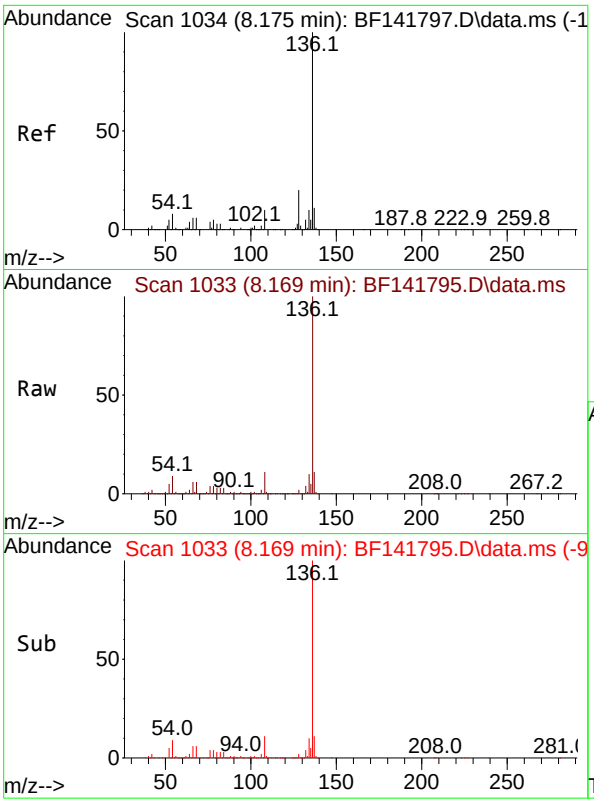


#20
3+4-Methylphenols
Concen: 10.842 ng
RT: 7.275 min Scan# 881
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:107 Resp: 218359

Ion	Ratio	Lower	Upper
107	100		
108	89.5	69.7	109.7
77	56.7	58.3	98.3#
79	29.4	10.3	50.3

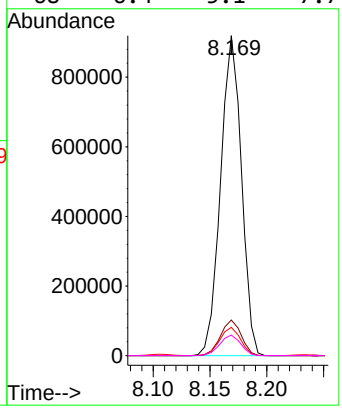




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:136 Resp: 117383

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	8.8	6.9	10.3
68	6.4	5.1	7.7



Instrument :
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ClientSampleId :
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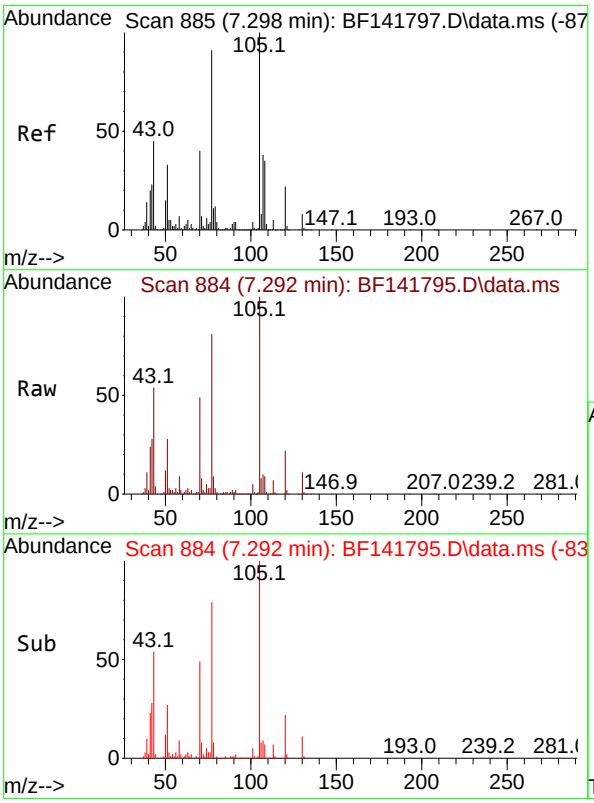
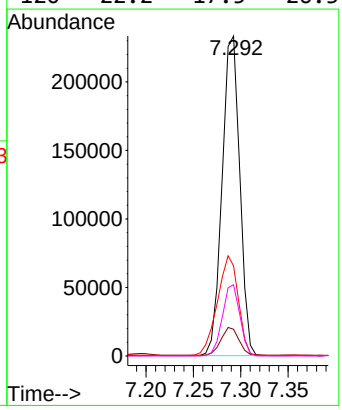
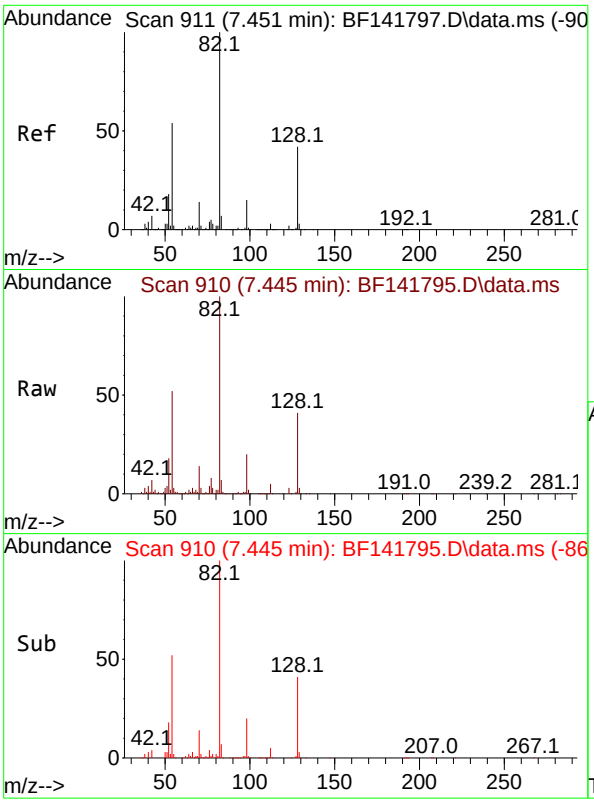


#22
Acetophenone
Concen: 10.606 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:105 Resp: 303217

Ion	Ratio	Lower	Upper
105	100		
71	8.4	5.4	8.0#
51	28.2	26.1	39.1
120	22.2	17.5	26.3





#23
Nitrobenzene-d5
Concen: 17.336 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 82 Resp: 31836

Ion	Ratio	Lower	Upper
82	100		
128	41.3	33.5	50.3
54	52.2	42.7	64.1

Instrument :
BNA_F
ClientSampleId :
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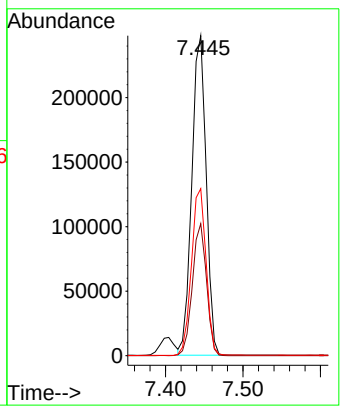
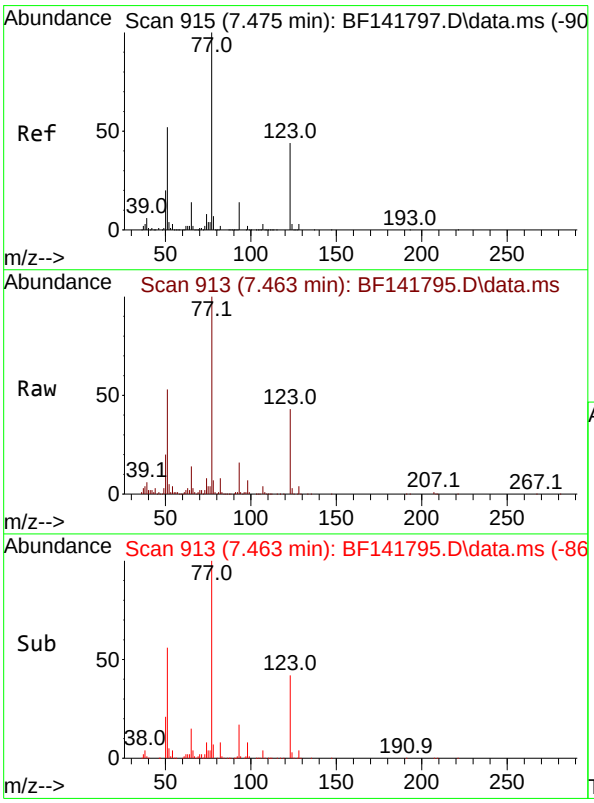
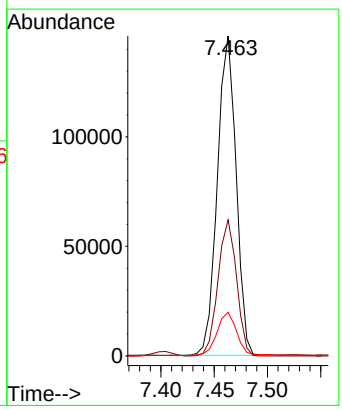


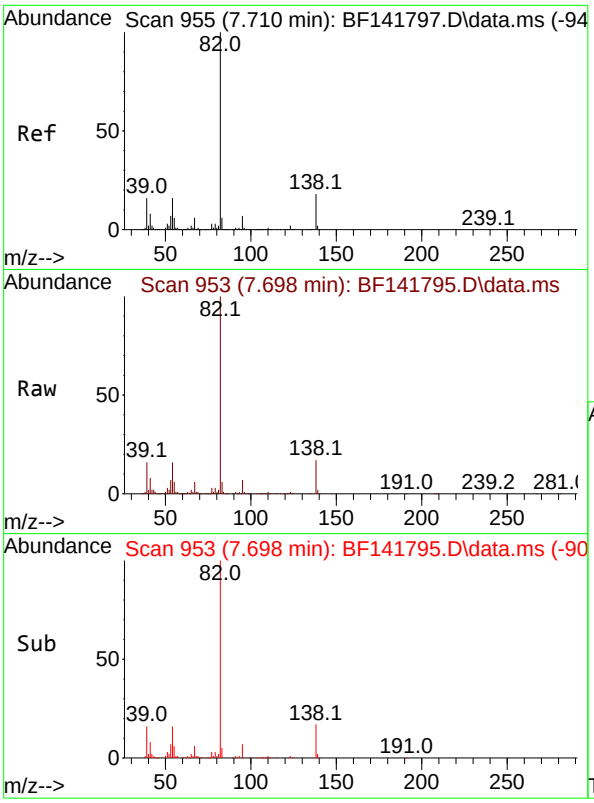


#24
Nitrobenzene
Concen: 9.057 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 77 Resp: 178109

Ion	Ratio	Lower	Upper
77	100		
123	42.6	35.8	53.8
65	13.7	11.2	16.8

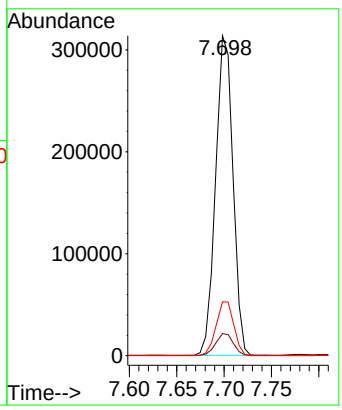




#25
Isophorone
Concen: 10.145 ng
RT: 7.698 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 82 Resp: 40022

Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.8	8.8
138	16.9	14.0	21.0



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ClientSampleId :
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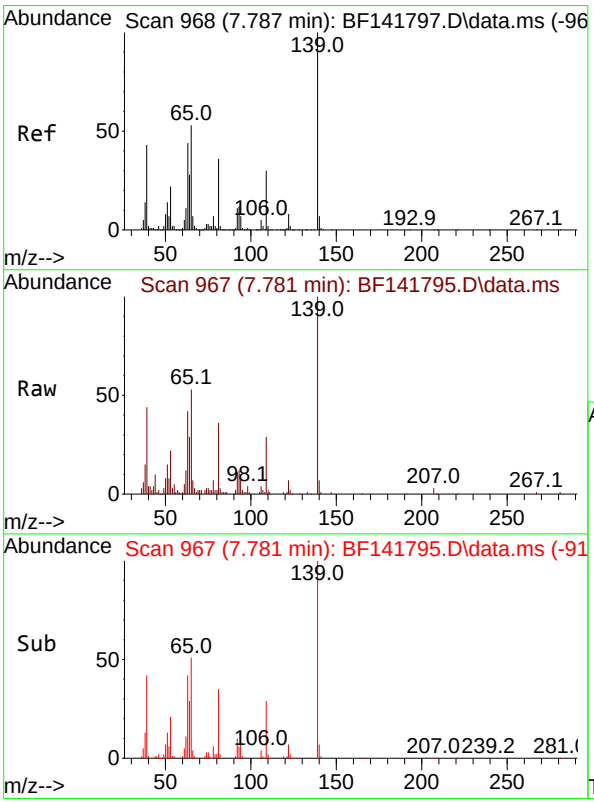
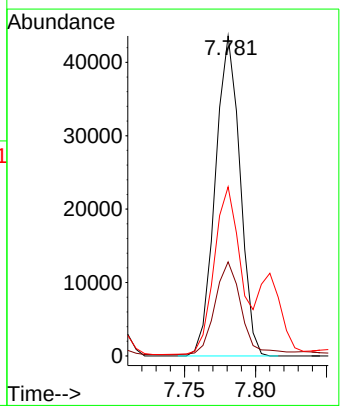
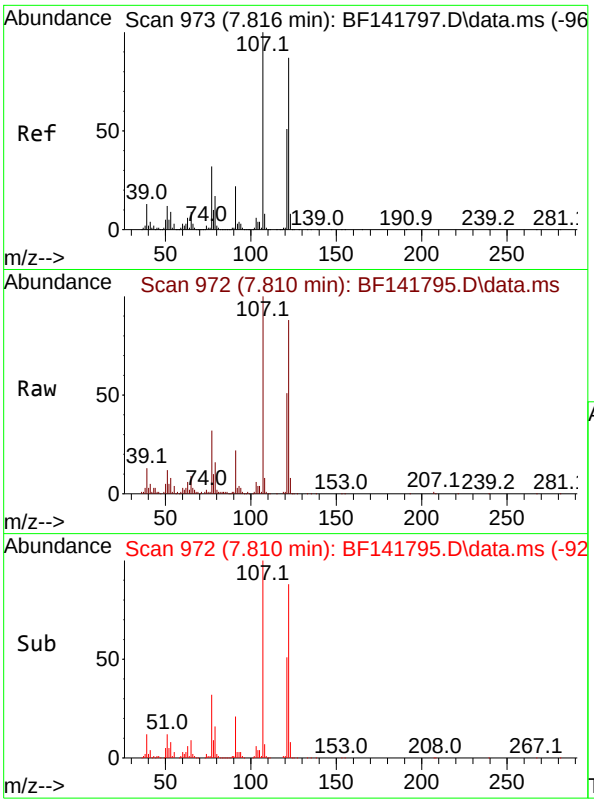


#26
2-Nitrophenol
Concen: 9.980 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:139 Resp: 52703

Ion	Ratio	Lower	Upper
139	100		
109	29.4	24.1	36.1
65	52.9	42.3	63.5

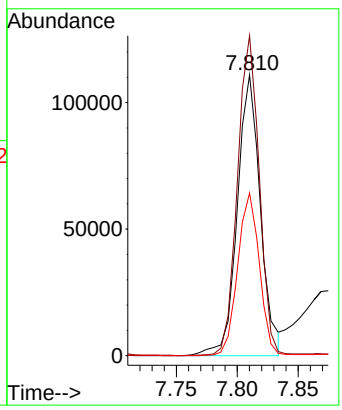




#27
2,4-Dimethylphenol
Concen: 10.103 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:122 Resp: 14651

Ion	Ratio	Lower	Upper
122	100		
107	113.9	92.5	138.7
121	57.9	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
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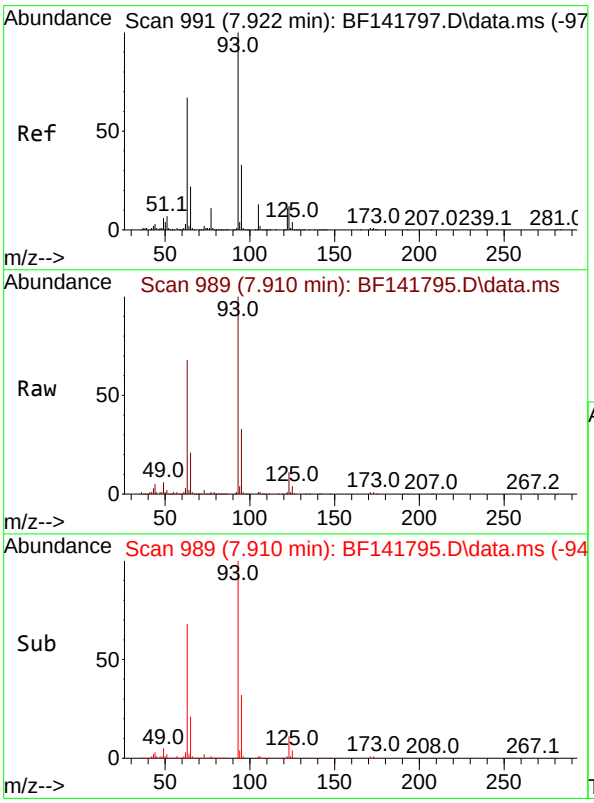
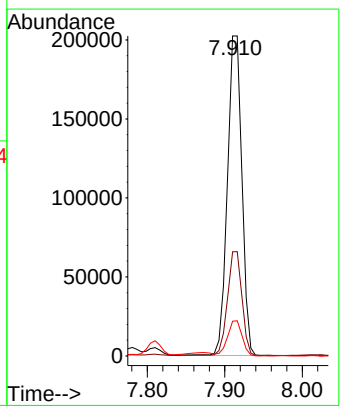
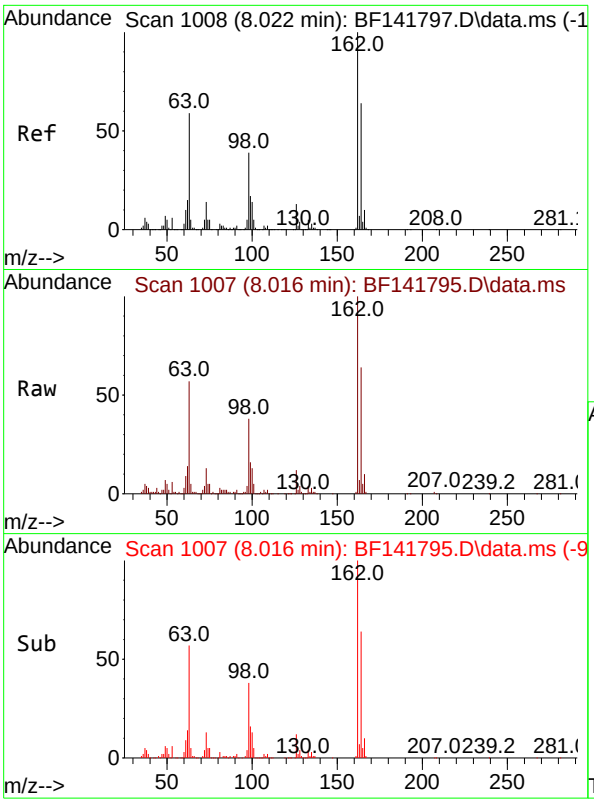


#28
bis(2-Chloroethoxy)methane
Concen: 10.445 ng
RT: 7.910 min Scan# 989
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 93 Resp: 262861

Ion	Ratio	Lower	Upper
93	100		
95	32.5	26.5	39.7
123	10.8	10.0	15.0





#29
2,4-Dichlorophenol
Concen: 10.114 ng
RT: 8.016 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:162 Resp: 16921(

Ion	Ratio	Lower	Upper
162	100		
164	63.9	44.3	84.3
98	38.5	19.6	59.6

Instrument :
BNA_F
ClientSampleId :
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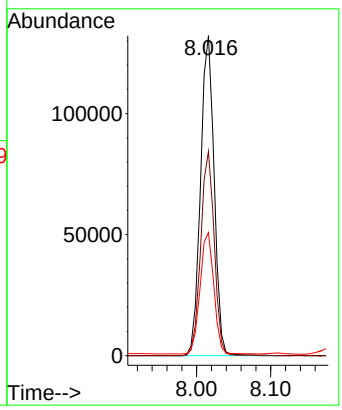
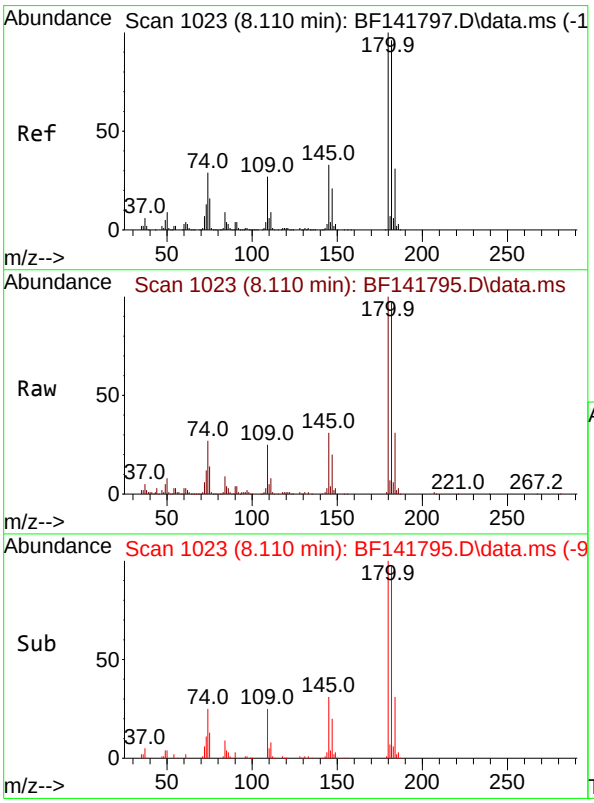
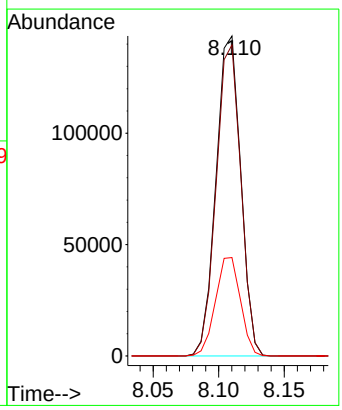


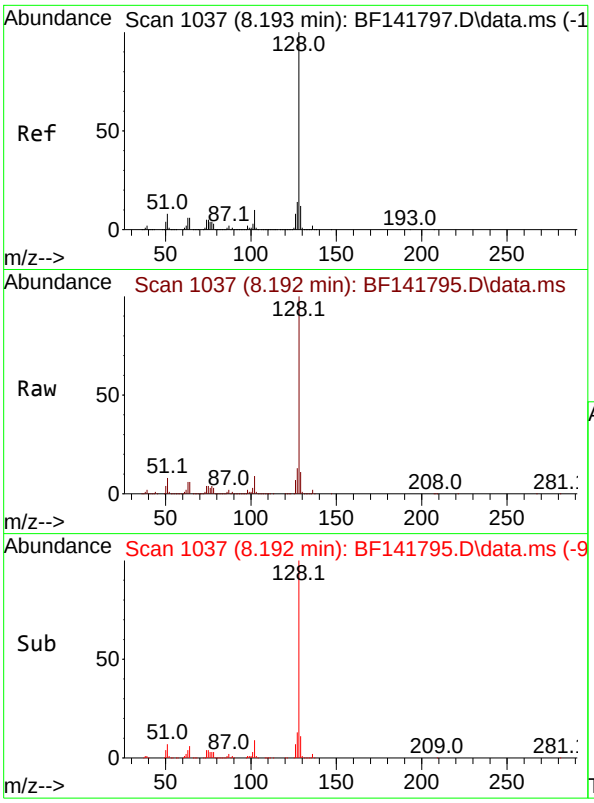


#30
1,2,4-Trichlorobenzene
Concen: 10.271 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:180 Resp: 188296

Ion	Ratio	Lower	Upper
180	100		
182	97.2	76.8	115.2
145	30.8	26.4	39.6

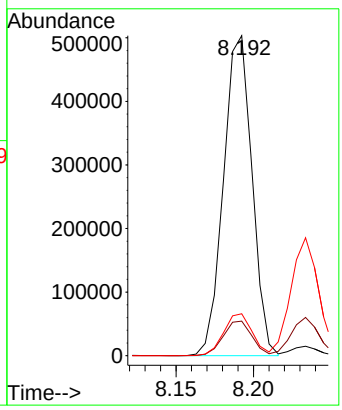




#31
Naphthalene
Concen: 10.668 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:128 Resp: 64362

Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.2	13.8
127	13.1	11.0	16.4



Instrument :
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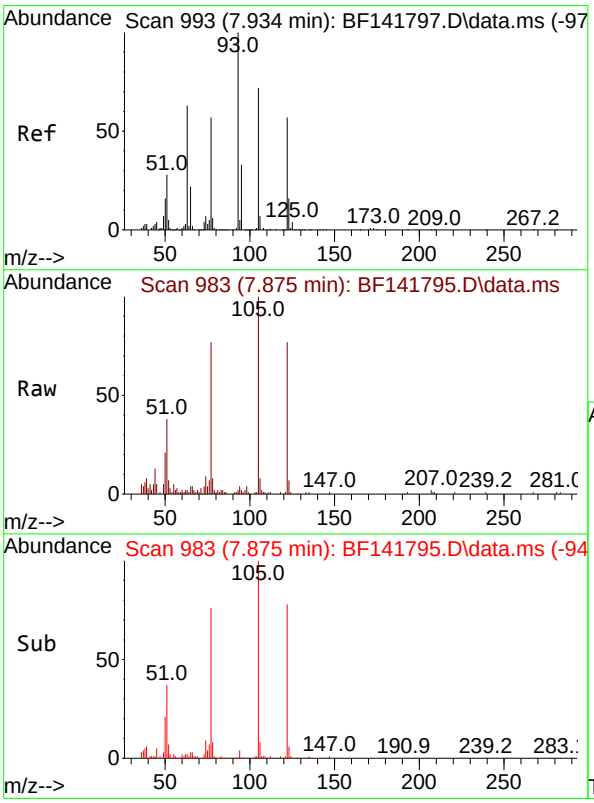
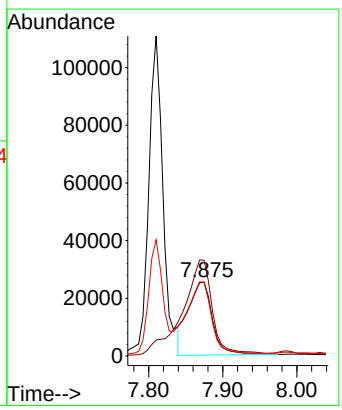
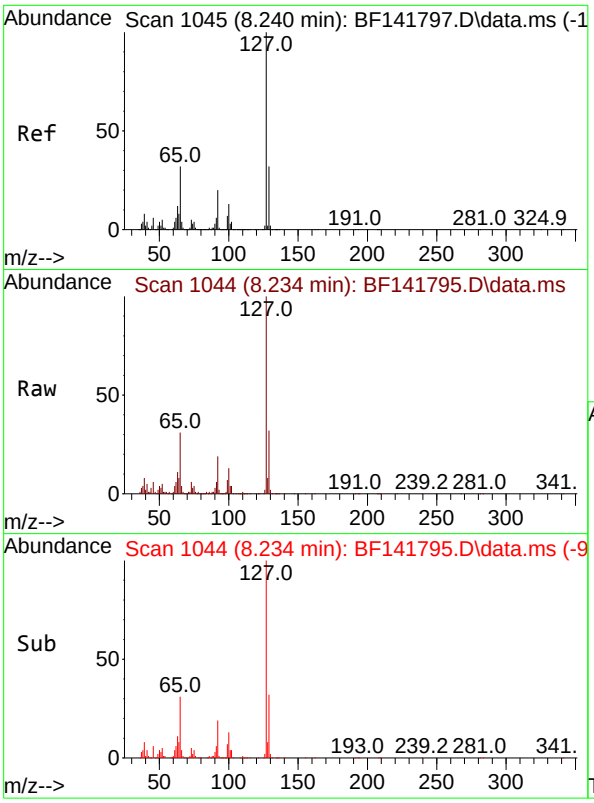


#32
Benzoic acid
Concen: 11.729 ng
RT: 7.875 min Scan# 983
Delta R.T. -0.059 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:122 Resp: 58209

Ion	Ratio	Lower	Upper
122	100		
105	129.5	105.8	145.8
77	99.2	79.9	119.9

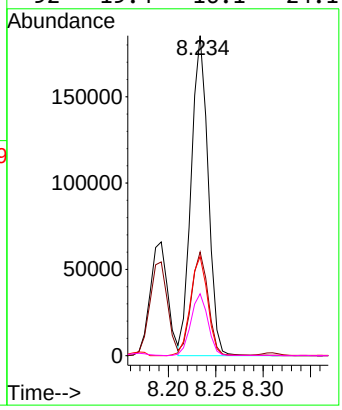




#33
4-Chloroaniline
Concen: 10.413 ng
RT: 8.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:127 Resp: 23034

Ion	Ratio	Lower	Upper
127	100		
129	32.4	26.1	39.1
65	30.9	25.7	38.5
92	19.4	16.1	24.1



Instrument :
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ClientSampleId :
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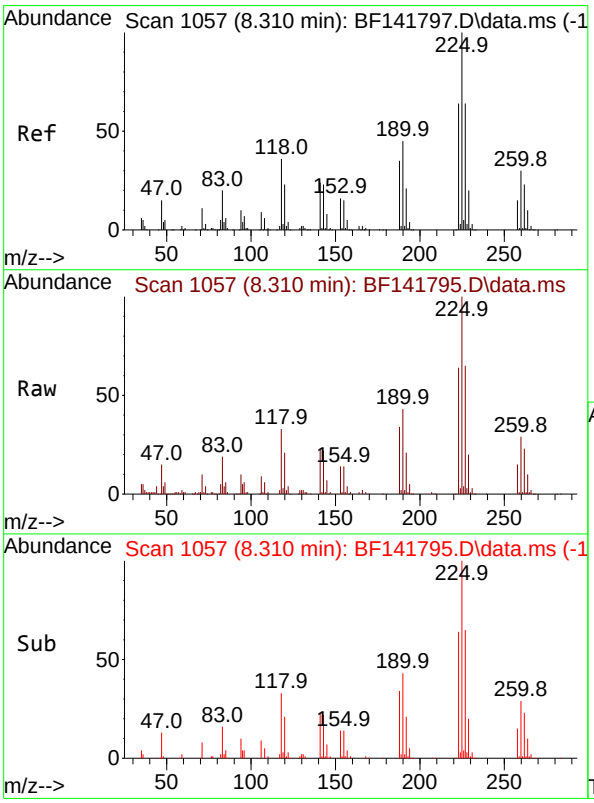
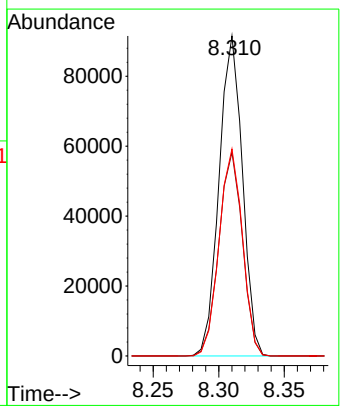
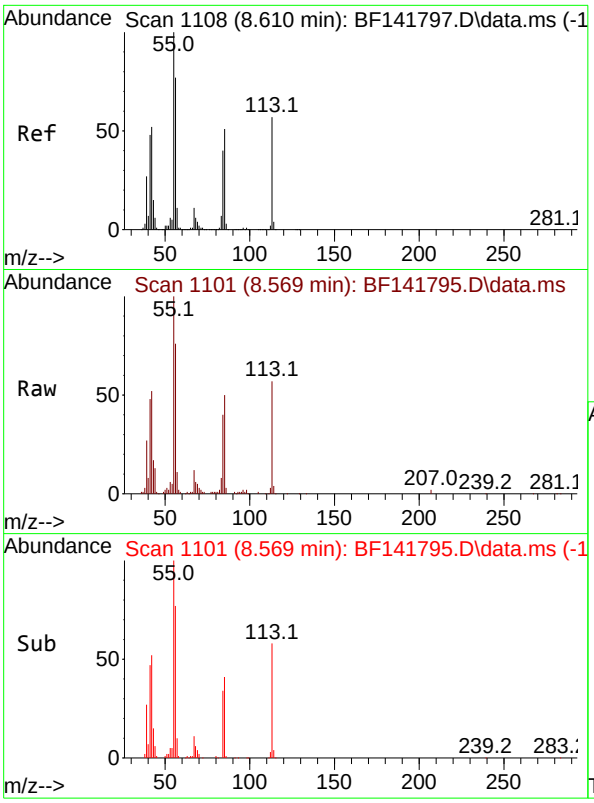


#34
Hexachlorobutadiene
Concen: 9.931 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:225 Resp: 113140

Ion	Ratio	Lower	Upper
225	100		
223	63.6	51.4	77.2
227	64.7	51.6	77.4

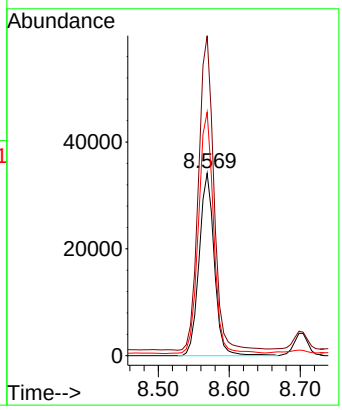




#35
Caprolactam
Concen: 9.855 ng
RT: 8.569 min Scan# 11
Delta R.T. -0.041 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:113 Resp: 5073

Ion	Ratio	Lower	Upper
113	100		
55	175.4	155.6	195.6
56	133.5	114.6	154.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

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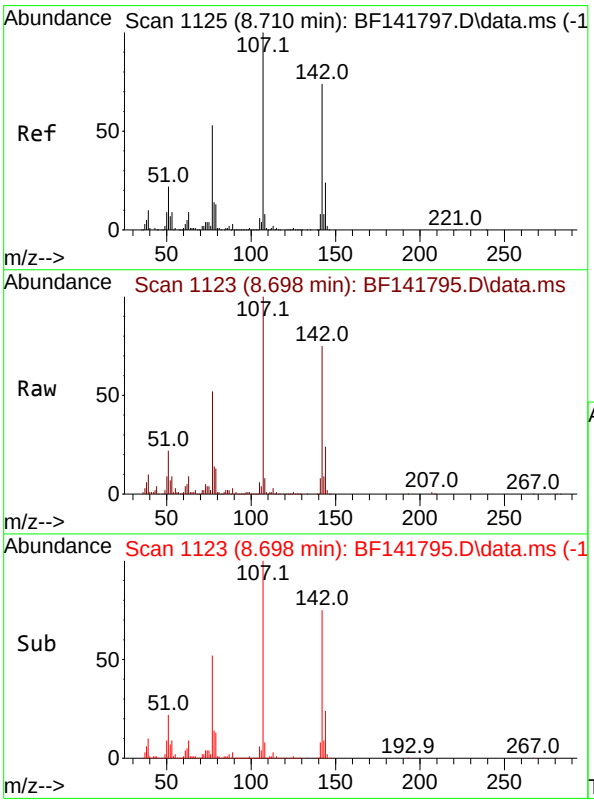
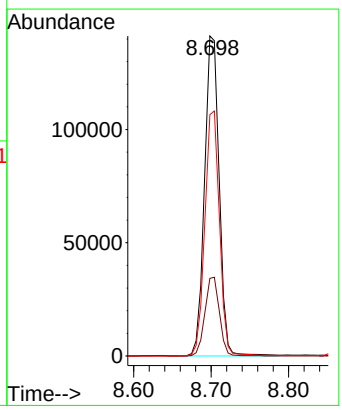
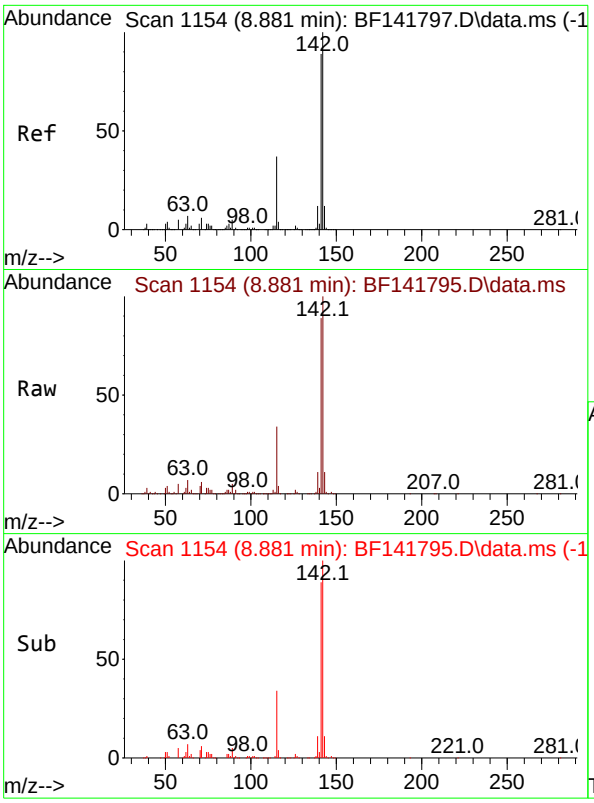


#36
4-Chloro-3-methylphenol
Concen: 9.987 ng
RT: 8.698 min Scan# 1123
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:107 Resp: 185621

Ion	Ratio	Lower	Upper
107	100		
144	24.2	19.4	29.0
142	75.4	59.4	89.0

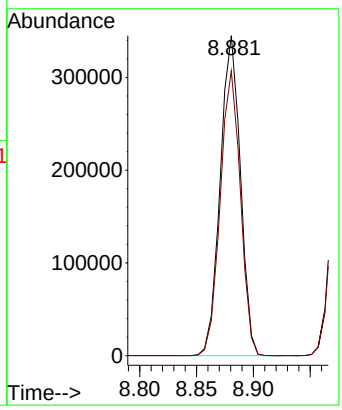




#37
2-Methylnaphthalene
Concen: 10.758 ng
RT: 8.881 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:142 Resp: 42572

Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.1	106.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

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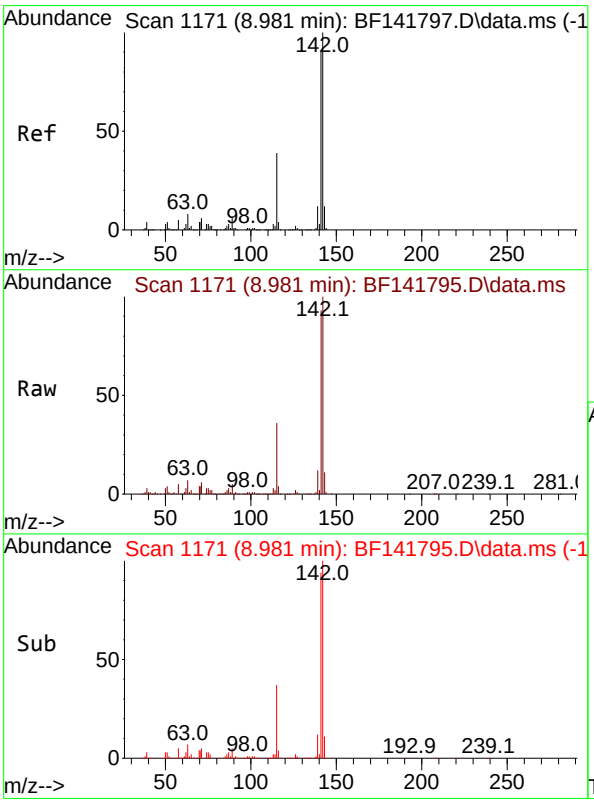
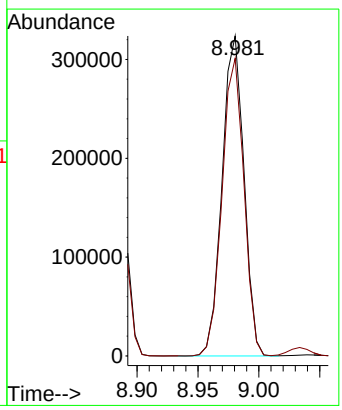
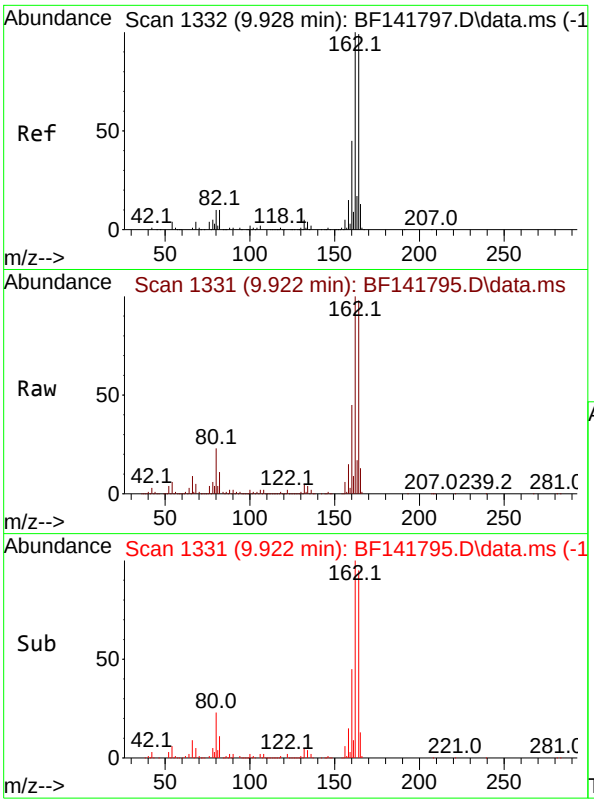


#38
1-Methylnaphthalene
Concen: 10.642 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:142 Resp: 404087

Ion	Ratio	Lower	Upper
142	100		
141	93.0	73.1	109.7

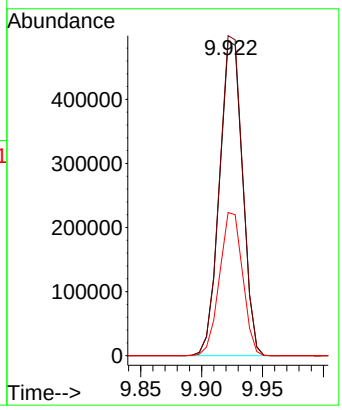




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:164 Resp: 64790

Ion	Ratio	Lower	Upper
164	100		
162	101.7	80.6	120.8
160	45.5	36.3	54.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

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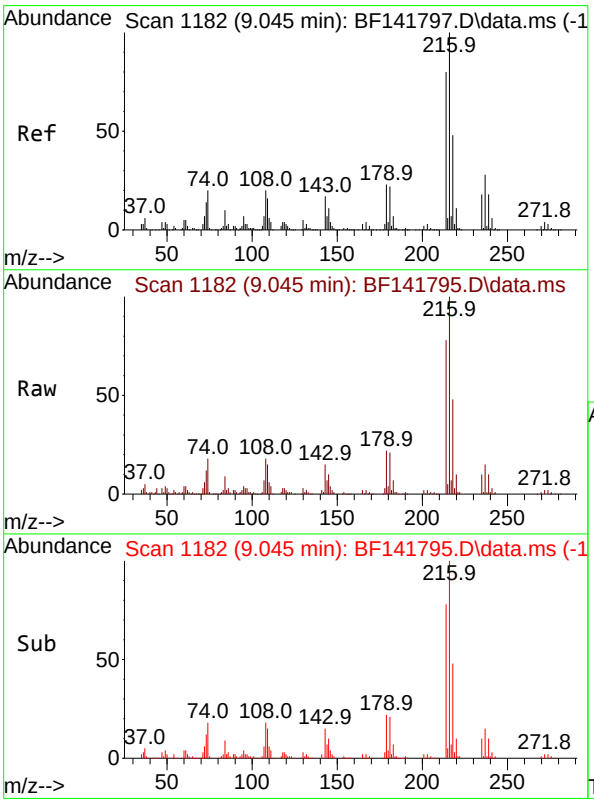
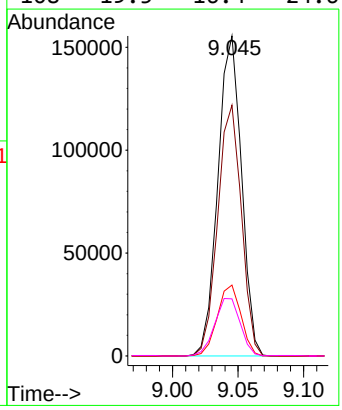
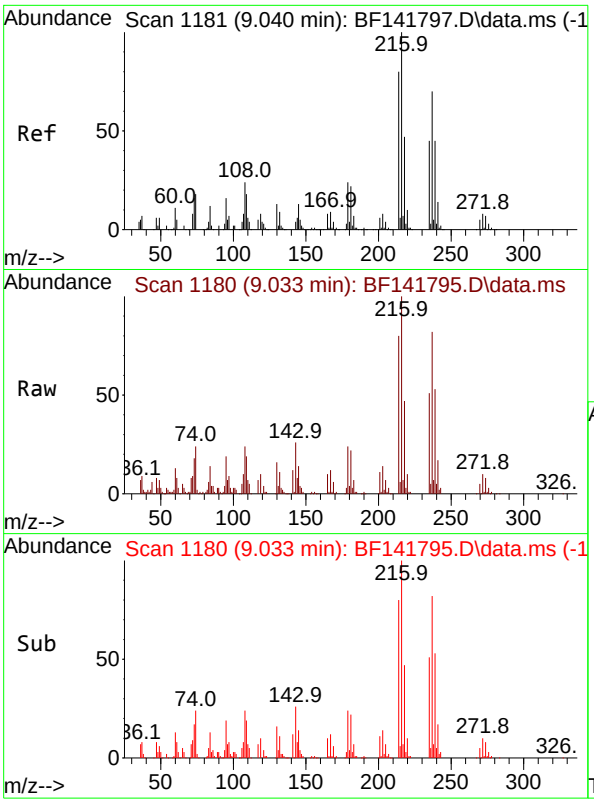


#40
1,2,4,5-Tetrachlorobenzene
Concen: 10.386 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:216 Resp: 194342

Ion	Ratio	Lower	Upper
216	100		
214	78.6	63.5	95.3
179	22.3	18.1	27.1
108	19.5	16.4	24.6

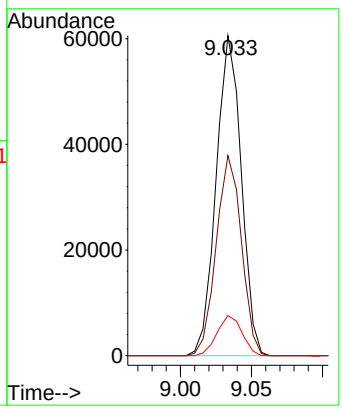




#41
Hexachlorocyclopentadiene
Concen: 9.533 ng
RT: 9.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:237 Resp: 7444

Ion	Ratio	Lower	Upper
237	100		
235	62.6	43.3	83.3
272	12.5	0.0	31.9



Instrument :
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ClientSampleId :
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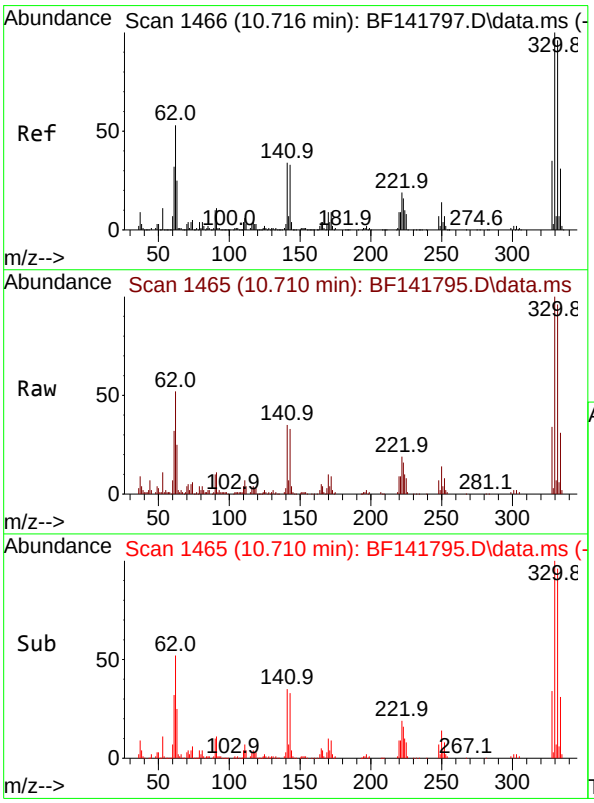
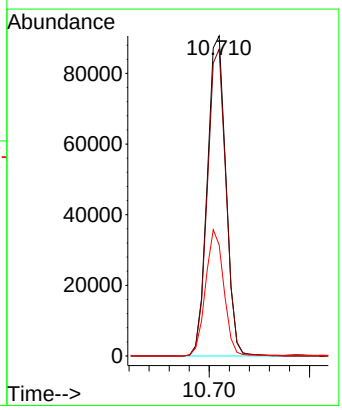
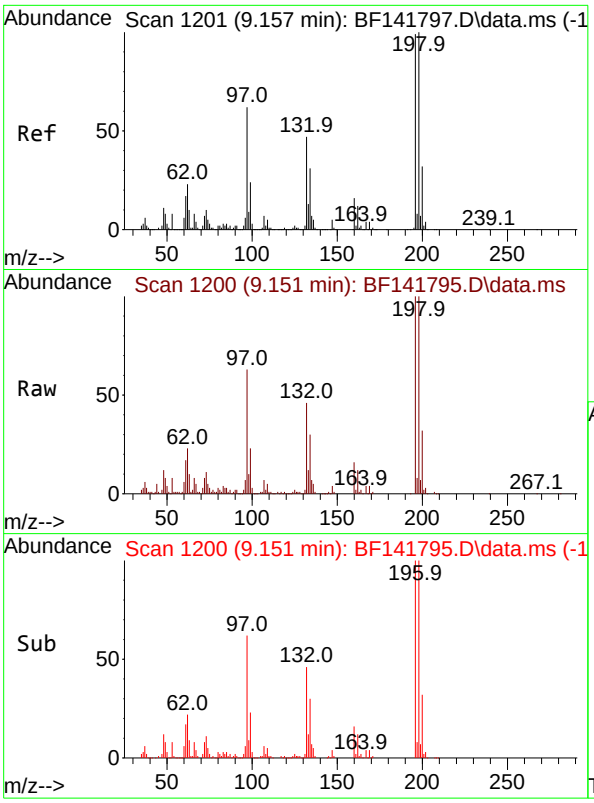


#42
2,4,6-Tribromophenol
Concen: 19.078 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:330 Resp: 116043

Ion	Ratio	Lower	Upper
330	100		
332	96.2	76.6	115.0
141	39.0	29.0	43.4





#43
2,4,6-Trichlorophenol
Concen: 9.864 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:196 Resp: 11923

Ion	Ratio	Lower	Upper
196	100		
198	100.4	80.4	120.6
200	32.0	25.7	38.5

Instrument :
BNA_F
ClientSampleId :
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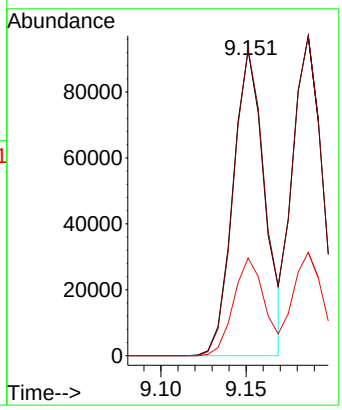
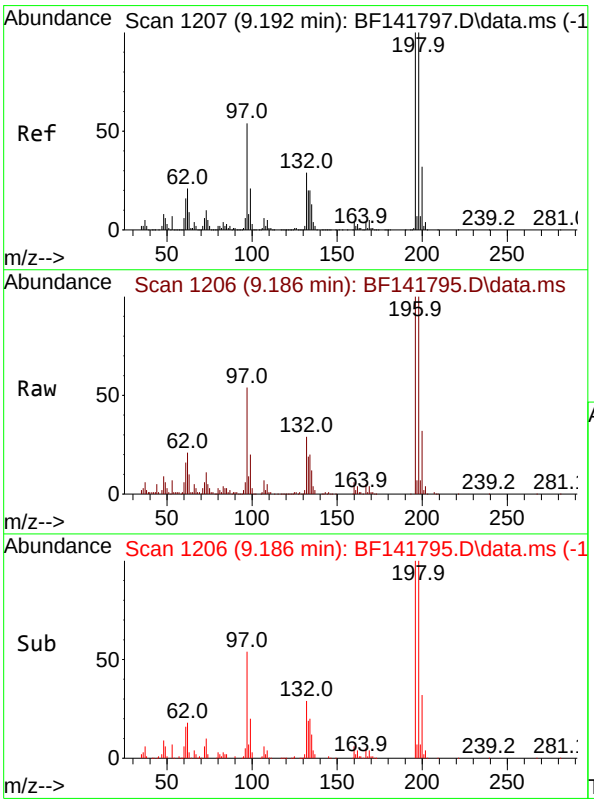
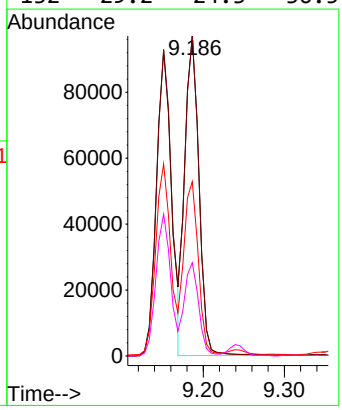


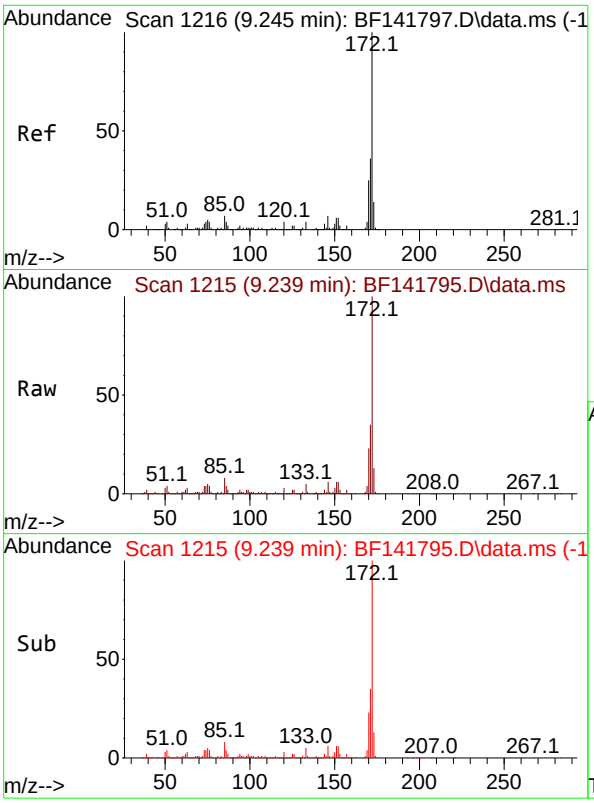


#44
2,4,5-Trichlorophenol
Concen: 9.860 ng
RT: 9.186 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:196 Resp: 118017

Ion	Ratio	Lower	Upper
196	100		
198	100.1	79.7	119.5
97	54.5	44.2	66.2
132	29.2	24.3	36.5

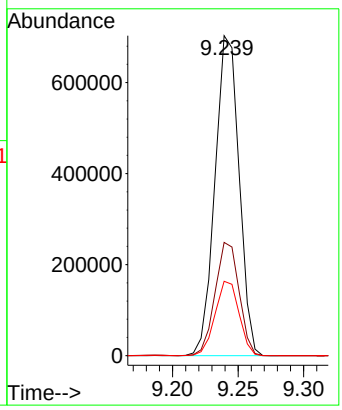




#45
2-Fluorobiphenyl
Concen: 22.244 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:172 Resp: 89879

Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.2	43.8
170	23.3	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
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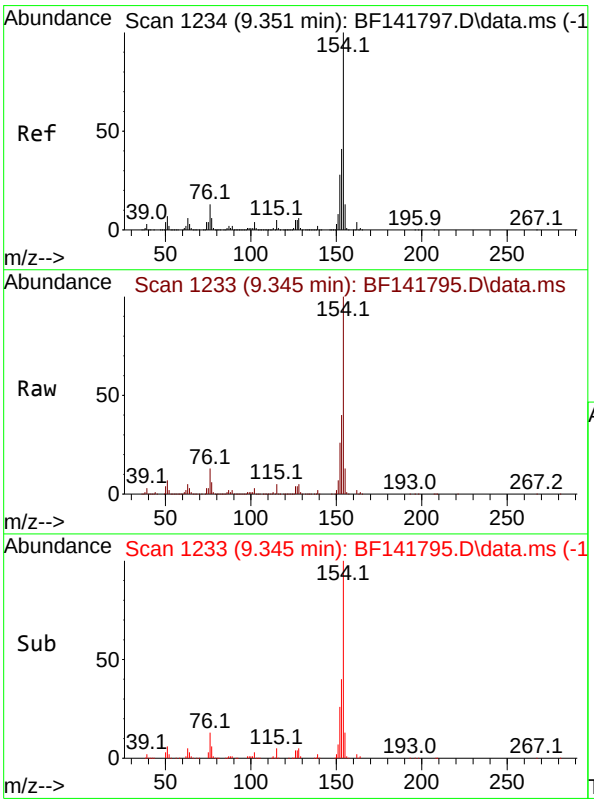
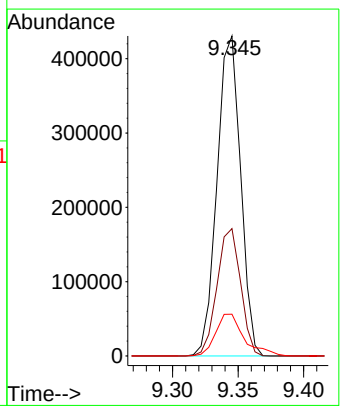
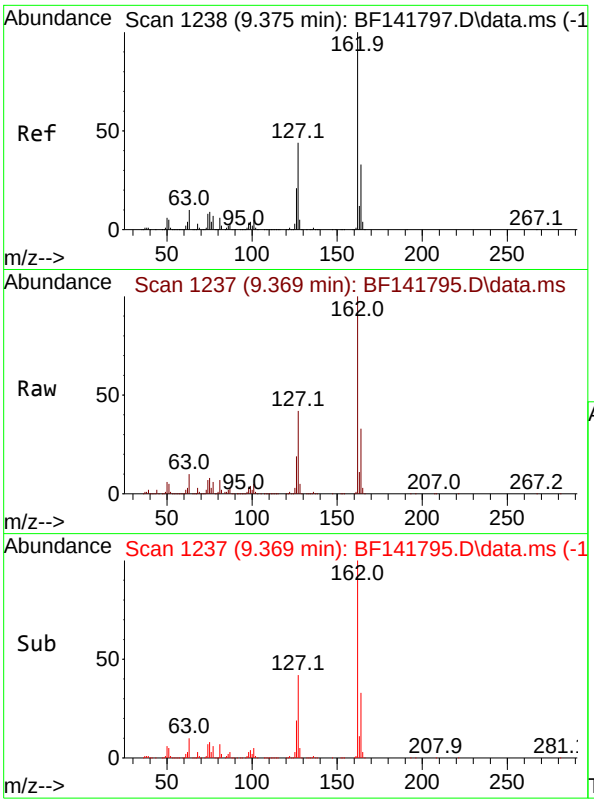


#46
1,1'-Biphenyl
Concen: 10.896 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:154 Resp: 537368

Ion	Ratio	Lower	Upper
154	100		
153	39.8	21.4	61.4
76	13.1	0.0	33.4

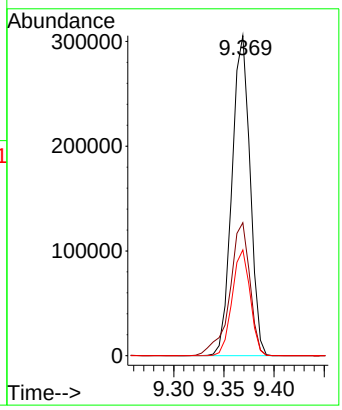




#47
2-Chloronaphthalene
Concen: 10.535 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:162 Resp: 38344

Ion	Ratio	Lower	Upper
162	100		
127	41.5	35.0	52.6
164	33.1	26.6	40.0



Instrument :
BNA_F
ClientSampleId :
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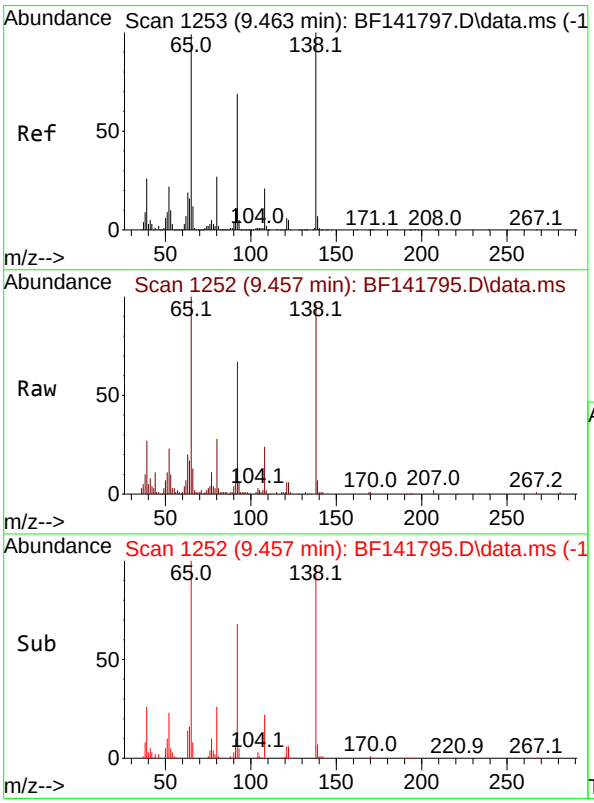
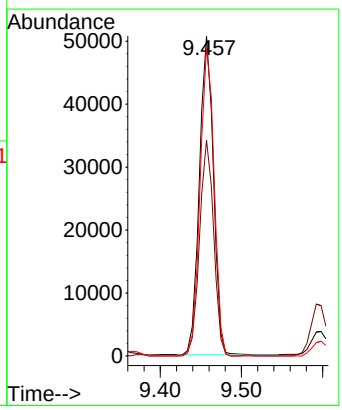
Supervised By :mohammad ahmed 02/28/2025

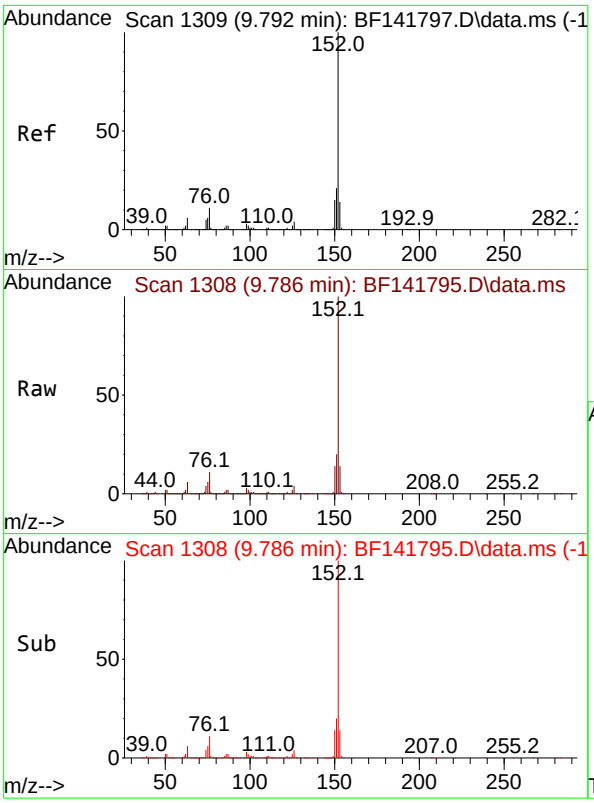


#48
2-Nitroaniline
Concen: 9.877 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 65 Resp: 60658

Ion	Ratio	Lower	Upper
65	100		
92	67.4	55.7	83.5
138	96.3	80.6	121.0

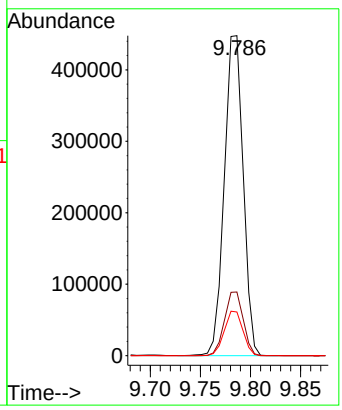




#49
Acenaphthylene
Concen: 10.739 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:152 Resp: 58606

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.6	24.8
153	13.7	11.2	16.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

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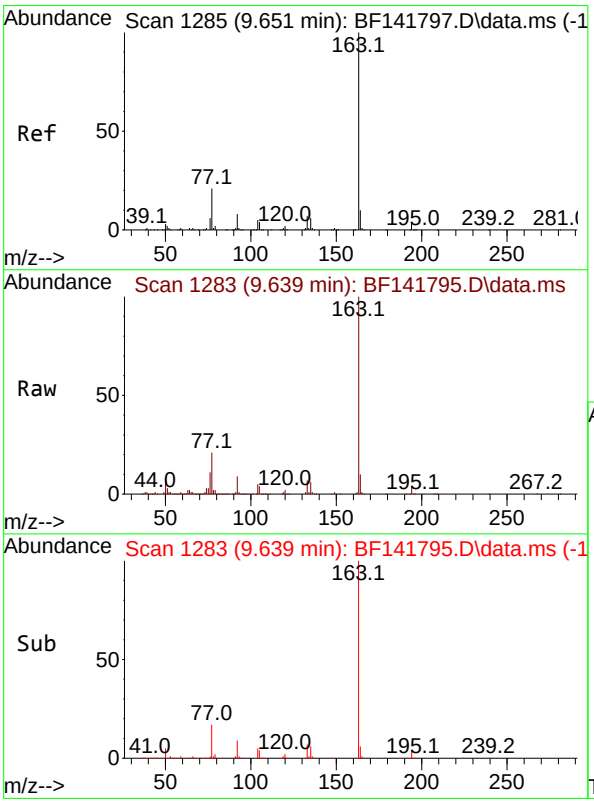
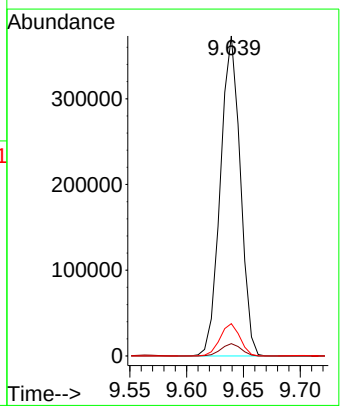
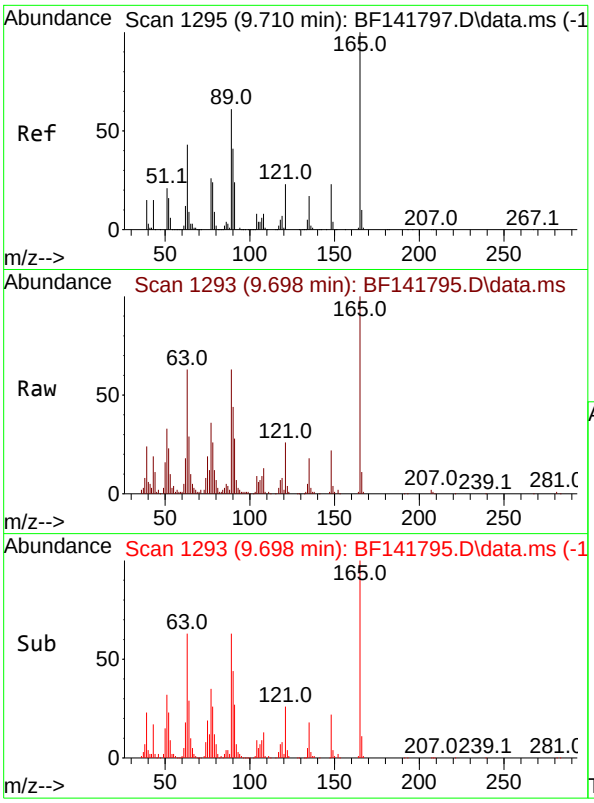


#50
Dimethylphthalate
Concen: 10.491 ng
RT: 9.639 min Scan# 1283
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:163 Resp: 455190

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.1	4.7
164	10.1	8.4	12.6





#51
2,6-Dinitrotoluene
Concen: 9.588 ng
RT: 9.698 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:165 Resp: 5961

Ion	Ratio	Lower	Upper
165	100		
63	62.9	49.5	74.3
89	63.4	49.0	73.4

Instrument :
BNA_F
ClientSampleId :
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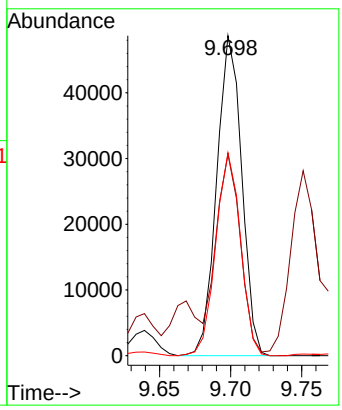
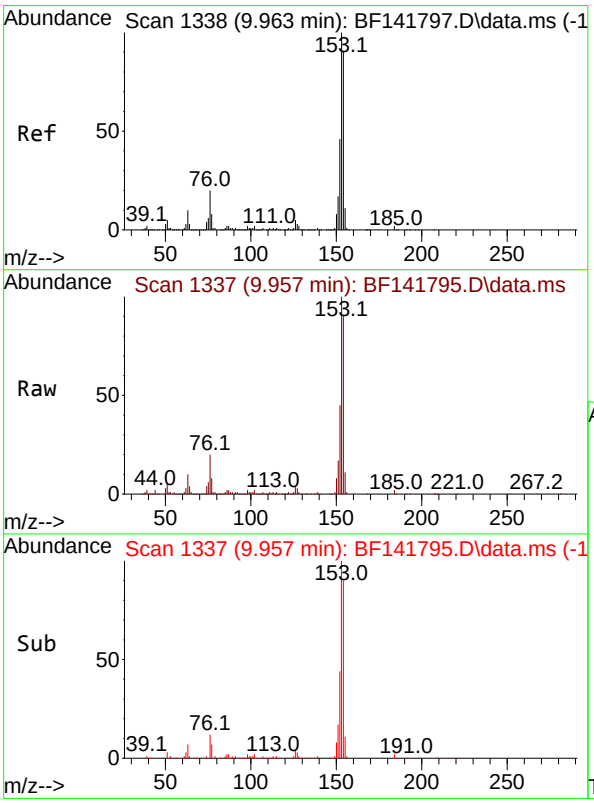
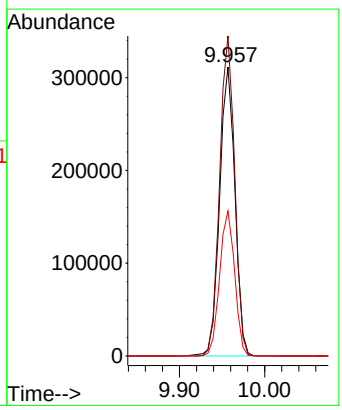


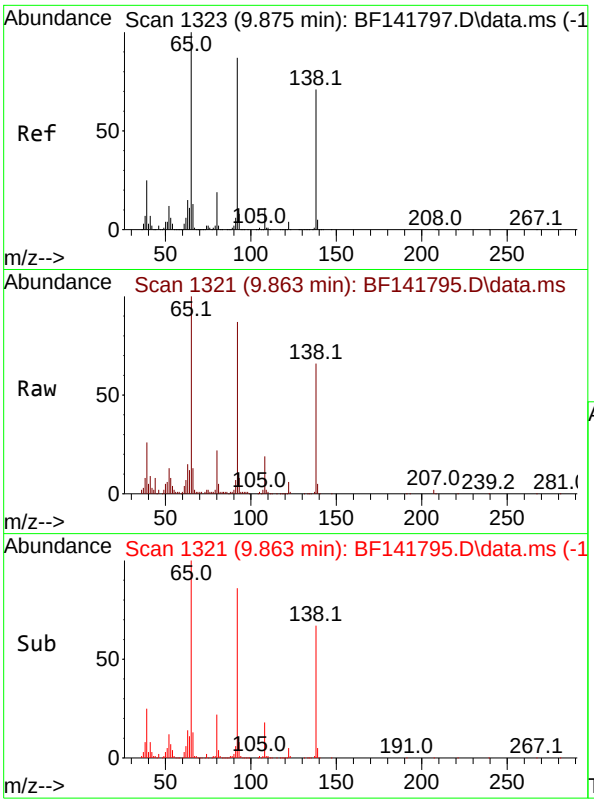


#52
Acenaphthene
Concen: 10.568 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:154 Resp: 389154

Ion	Ratio	Lower	Upper
154	100		
153	110.7	88.7	133.1
152	50.2	40.9	61.3





#53
3-Nitroaniline
Concen: 9.606 ng
RT: 9.863 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:138 Resp: 6256

Ion	Ratio	Lower	Upper
138	100		
108	27.8	12.7	19.1#
92	130.3	97.9	146.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

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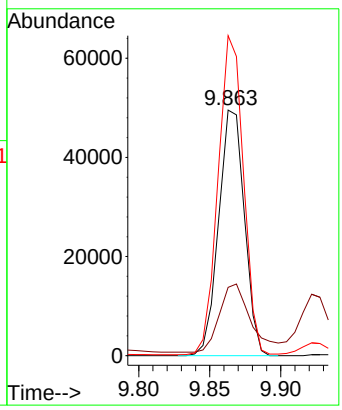
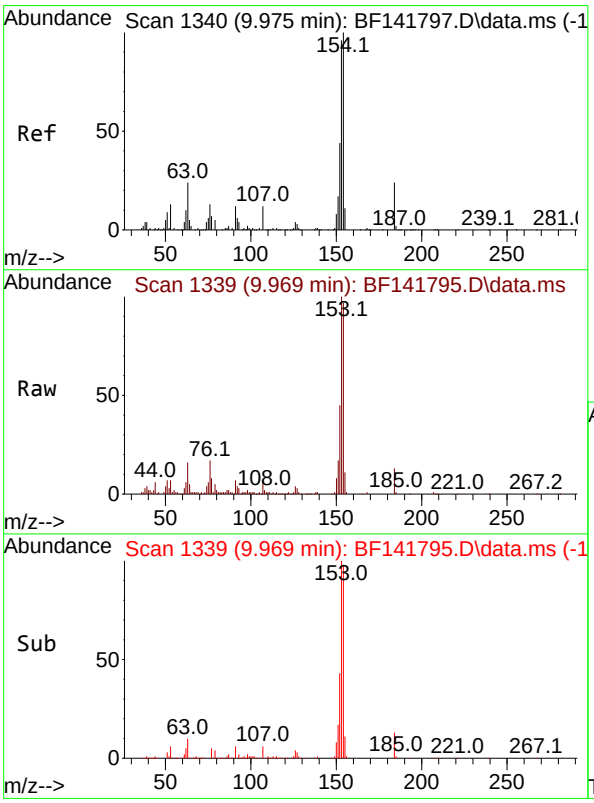
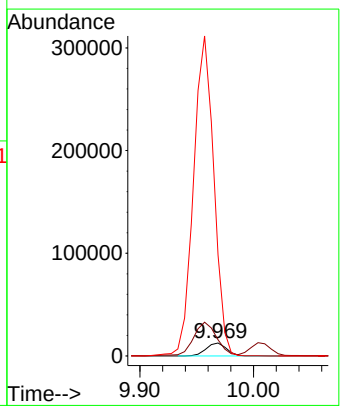


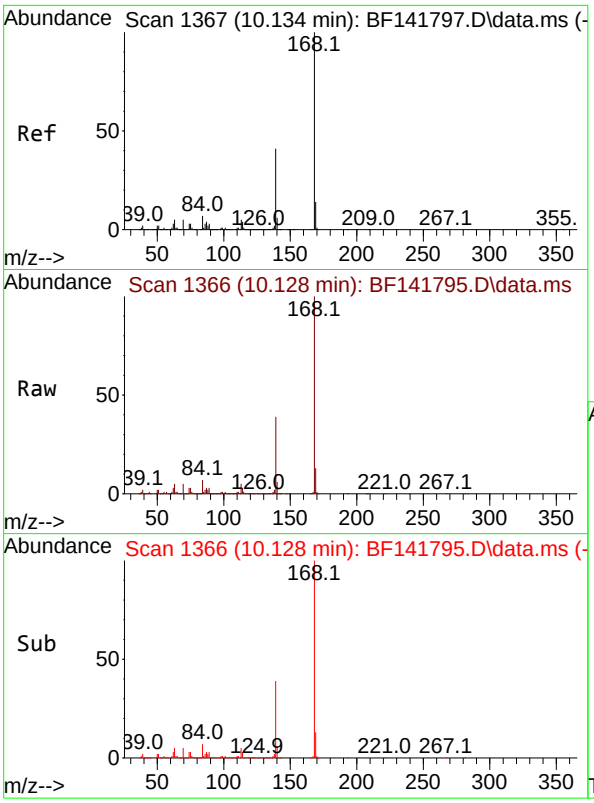


#54
2,4-Dinitrophenol
Concen: 10.881 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:184 Resp: 15803

Ion	Ratio	Lower	Upper
184	100		
63	124.5	79.0	118.6#
154	775.6	335.8	503.8#

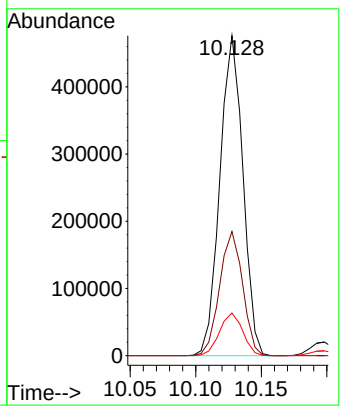




#55
Dibenzofuran
Concen: 10.843 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:168 Resp: 58112

Ion	Ratio	Lower	Upper
168	100		
139	38.8	32.9	49.3
169	13.4	11.1	16.7



Instrument :
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ClientSampleId :
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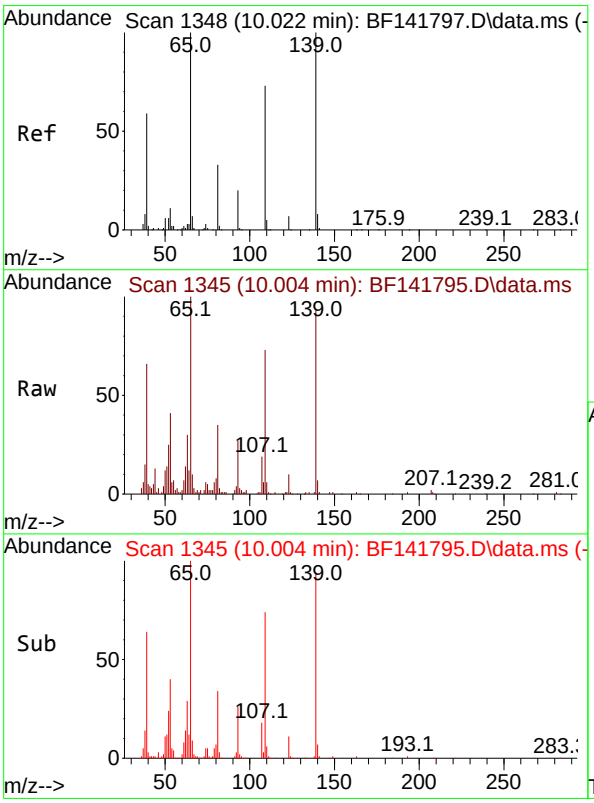
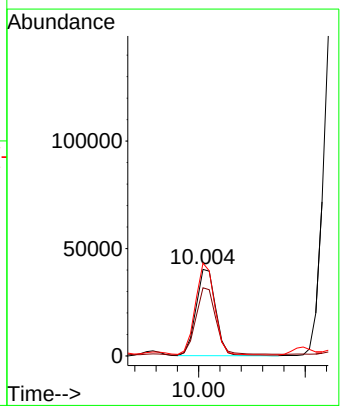
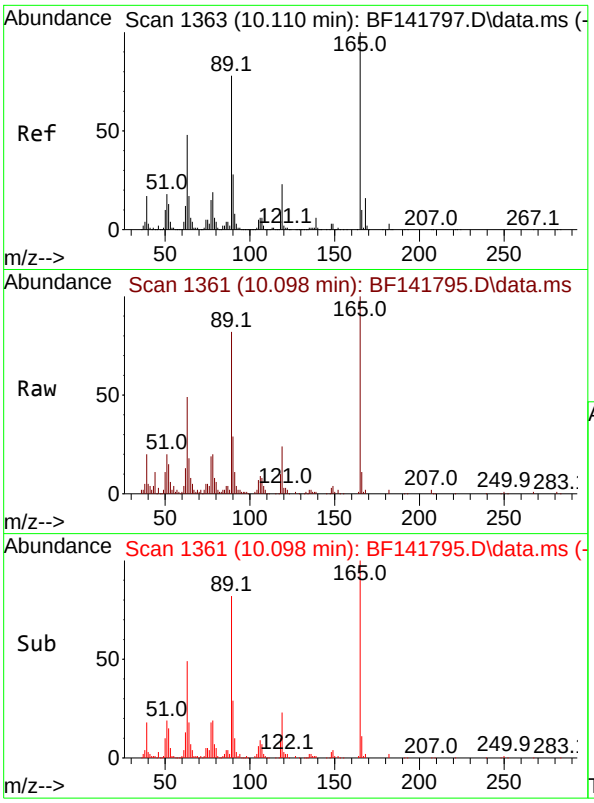


#56
4-Nitrophenol
Concen: 8.022 ng
RT: 10.004 min Scan# 1345
Delta R.T. -0.018 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:139 Resp: 51406

Ion	Ratio	Lower	Upper
139	100		
109	78.6	53.4	93.4
65	107.2	82.1	122.1

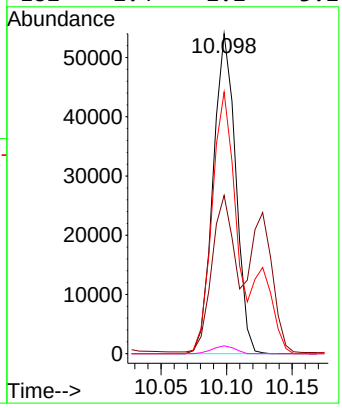




#57
2,4-Dinitrotoluene
Concen: 9.401 ng
RT: 10.098 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:165 Resp: 6429

Ion	Ratio	Lower	Upper
165	100		
63	49.5	38.8	58.2
89	81.7	62.6	94.0
182	2.4	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

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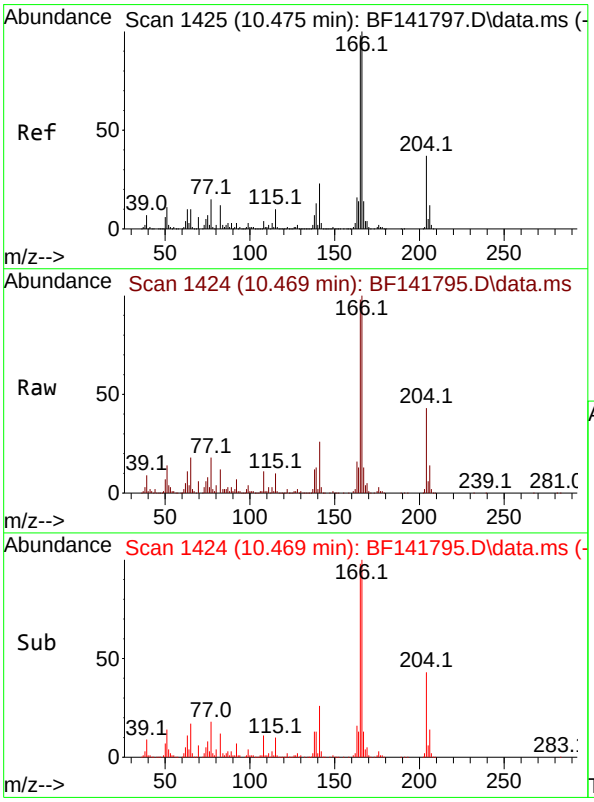
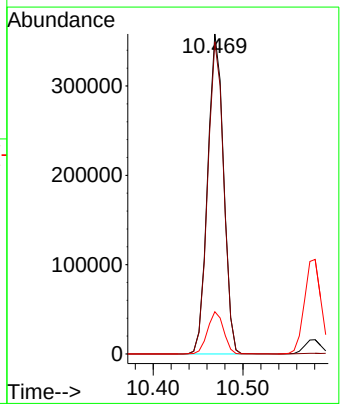
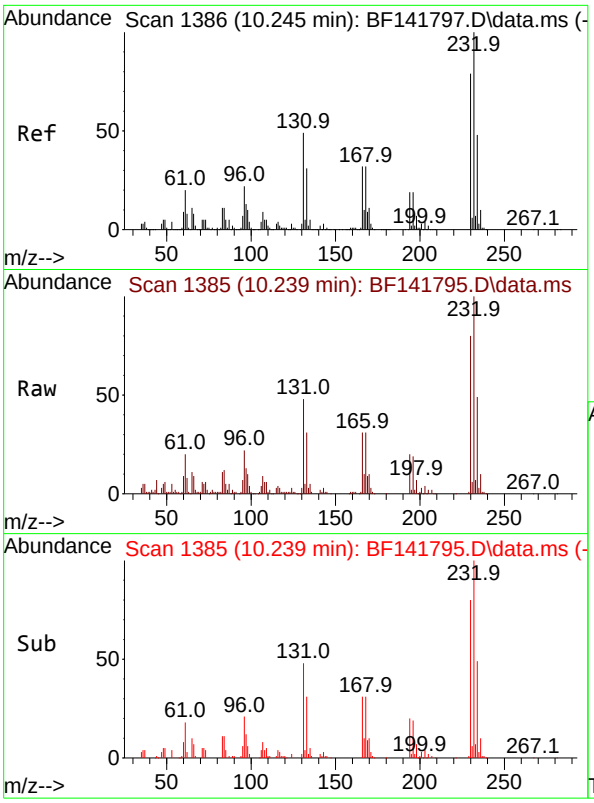


#58
Fluorene
Concen: 11.027 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:166 Resp: 442697

Ion	Ratio	Lower	Upper
166	100		
165	97.5	78.6	117.8
167	13.2	11.0	16.4





#59
2,3,4,6-Tetrachlorophenol
Concen: 9.772 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:232 Resp: 10172

Ion	Ratio	Lower	Upper
232	100		
131	47.7	37.8	56.8
130	2.6	2.0	3.0
166	31.9	25.0	37.4

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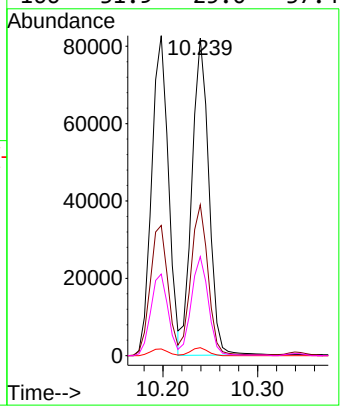
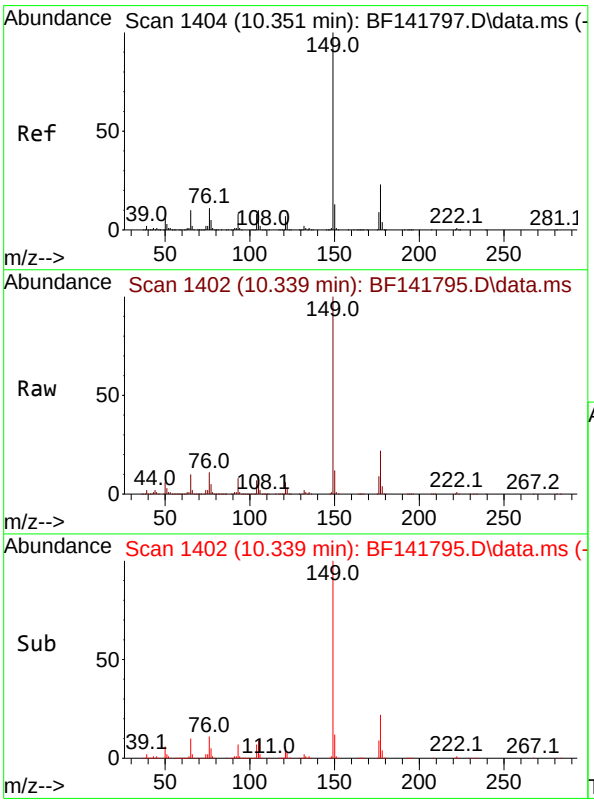
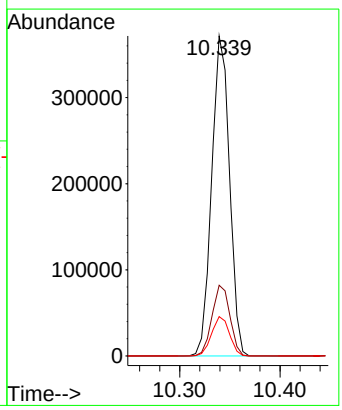


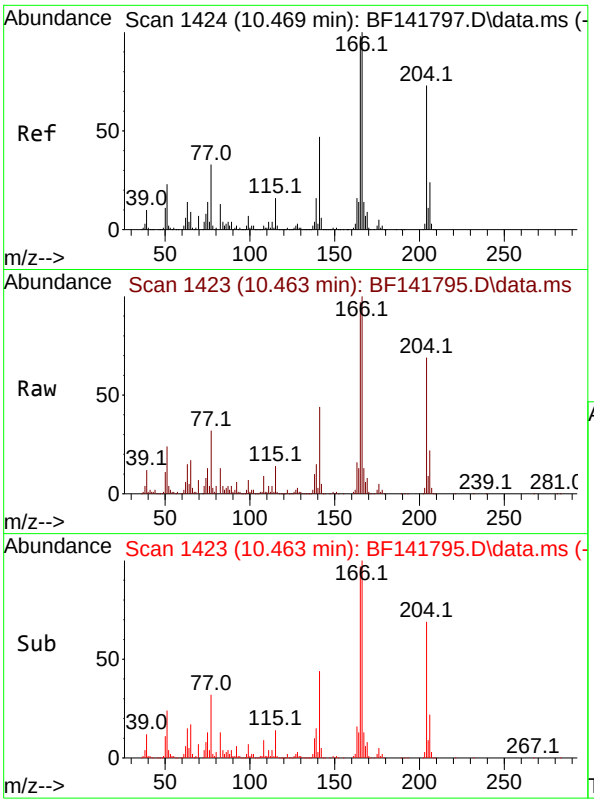


#60
Diethylphthalate
Concen: 10.520 ng
RT: 10.339 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:149 Resp: 457600

Ion	Ratio	Lower	Upper
149	100		
177	22.1	18.3	27.5
150	12.3	10.3	15.5

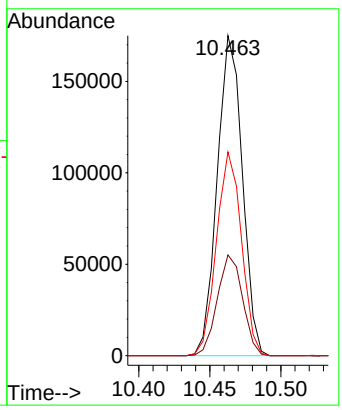




#61
4-Chlorophenyl-phenylether
Concen: 10.703 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:204 Resp: 21528

Ion	Ratio	Lower	Upper
204	100		
206	31.5	26.2	39.4
141	63.7	51.7	77.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

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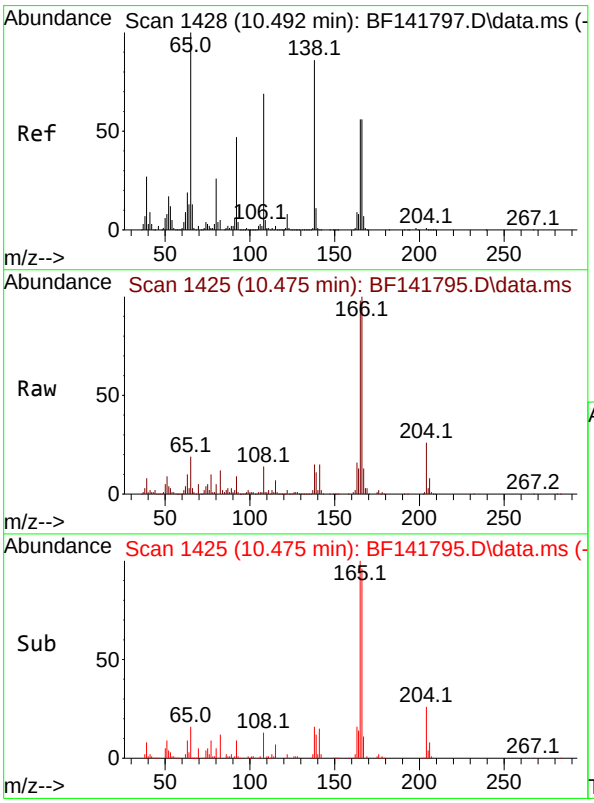
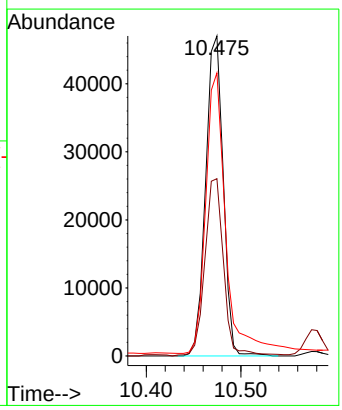
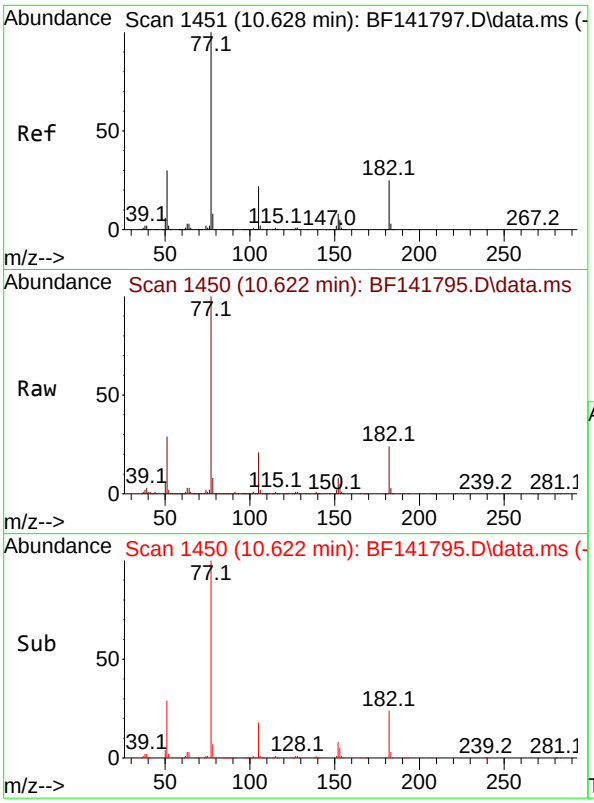


#62
4-Nitroaniline
Concen: 8.172 ng
RT: 10.475 min Scan# 1425
Delta R.T. -0.018 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:138 Resp: 60552

Ion	Ratio	Lower	Upper
138	100		
92	55.4	34.9	74.9
108	88.5	59.6	99.6

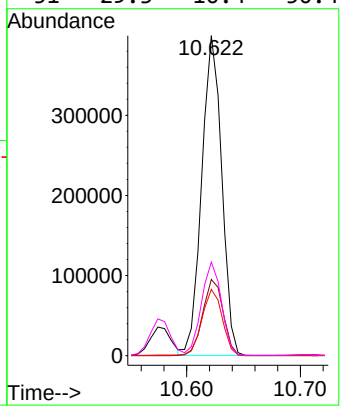




#63
Azobenzene
Concen: 10.631 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 77 Resp: 48687

Ion	Ratio	Lower	Upper
77	100		
182	23.8	4.2	44.2
105	20.7	1.5	41.5
51	29.3	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

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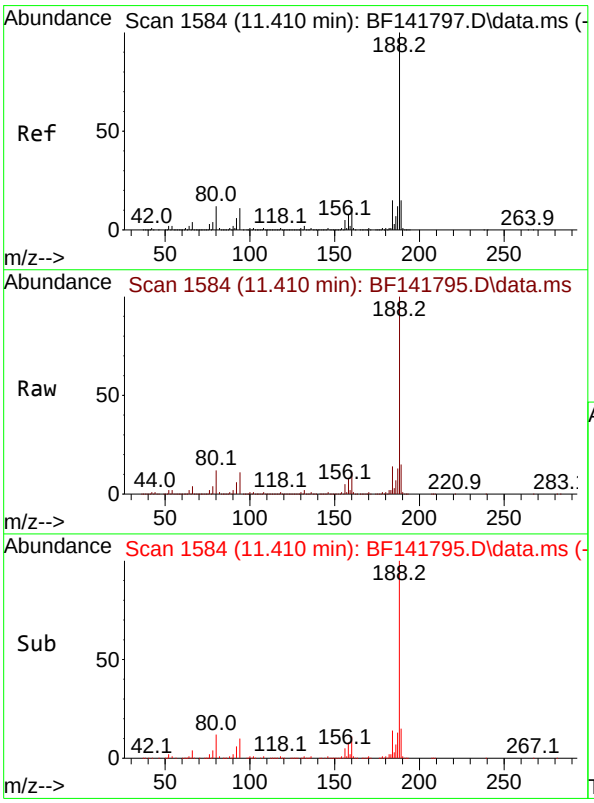
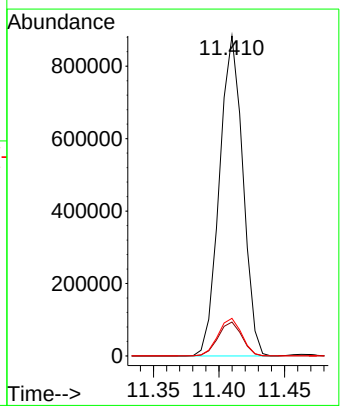
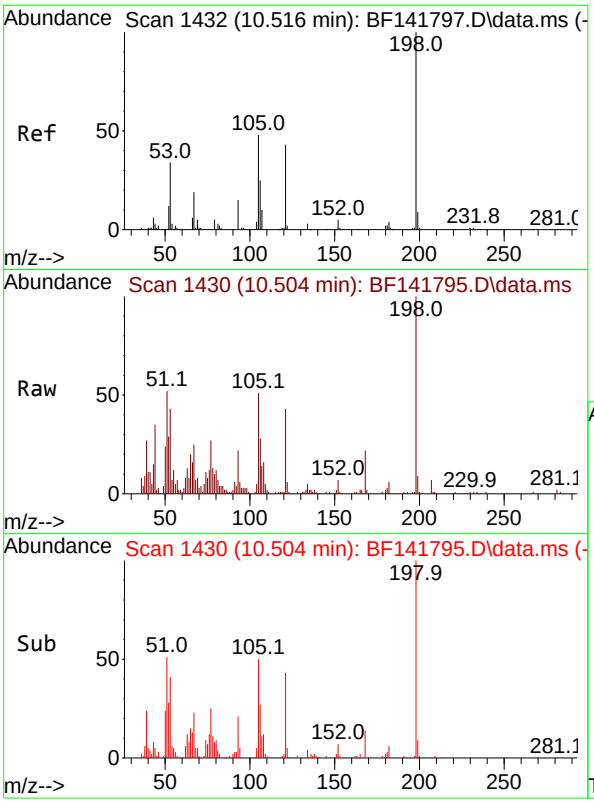


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:188 Resp: 1098842

Ion	Ratio	Lower	Upper
188	100		
94	10.6	8.9	13.3
80	11.7	9.7	14.5





#65
4,6-Dinitro-2-methylphenol
Concen: 11.957 ng
RT: 10.504 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:198 Resp: 2386

Ion	Ratio	Lower	Upper
198	100		
51	51.8	32.1	72.1
105	51.4	28.5	68.5

Instrument :
BNA_F
ClientSampleId :
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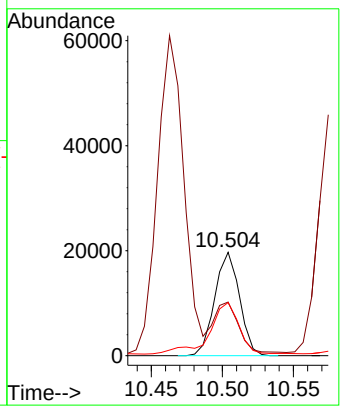
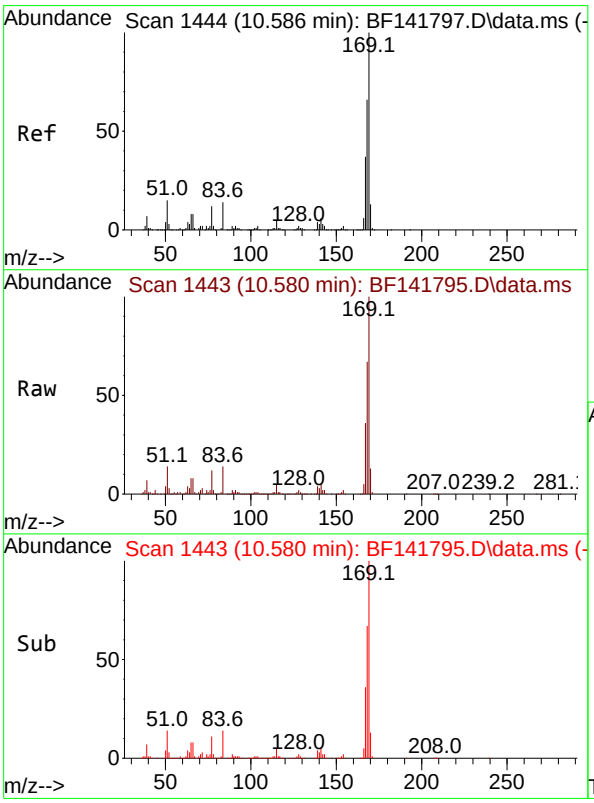
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

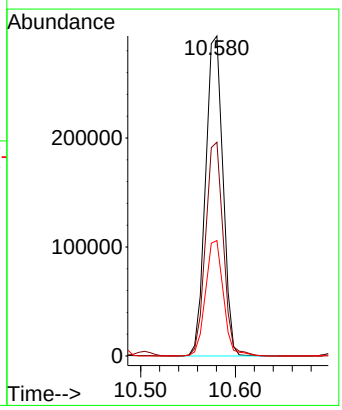


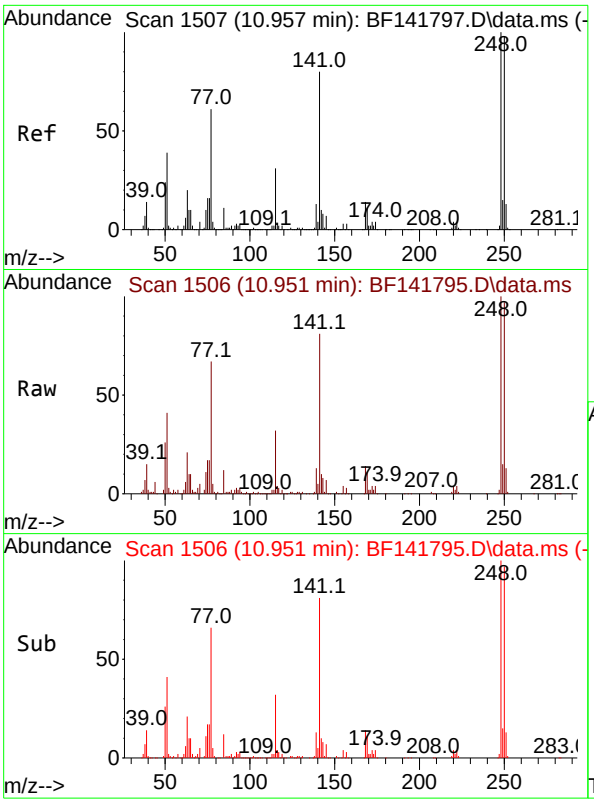


#66
n-Nitrosodiphenylamine
Concen: 10.369 ng
RT: 10.580 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:169 Resp: 374119

Ion	Ratio	Lower	Upper
169	100		
168	66.8	53.0	79.6
167	36.1	29.3	43.9

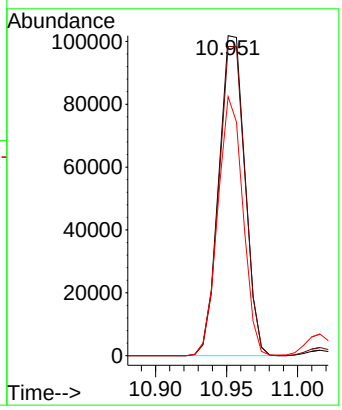




#67
4-Bromophenyl-phenylether
Concen: 10.165 ng
RT: 10.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:248 Resp: 13046

Ion	Ratio	Lower	Upper
248	100		
250	96.6	78.1	117.1
141	81.0	64.3	96.5



Instrument :
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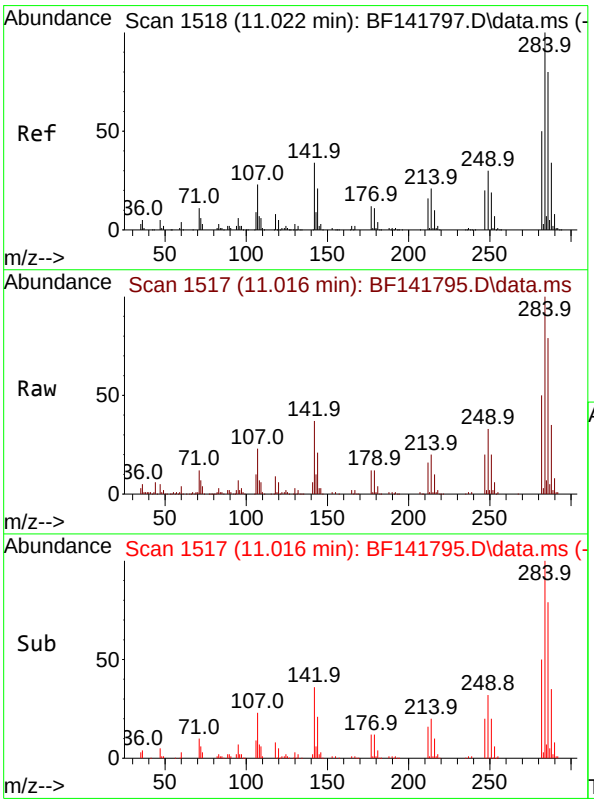
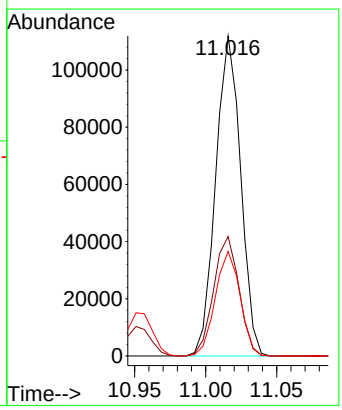
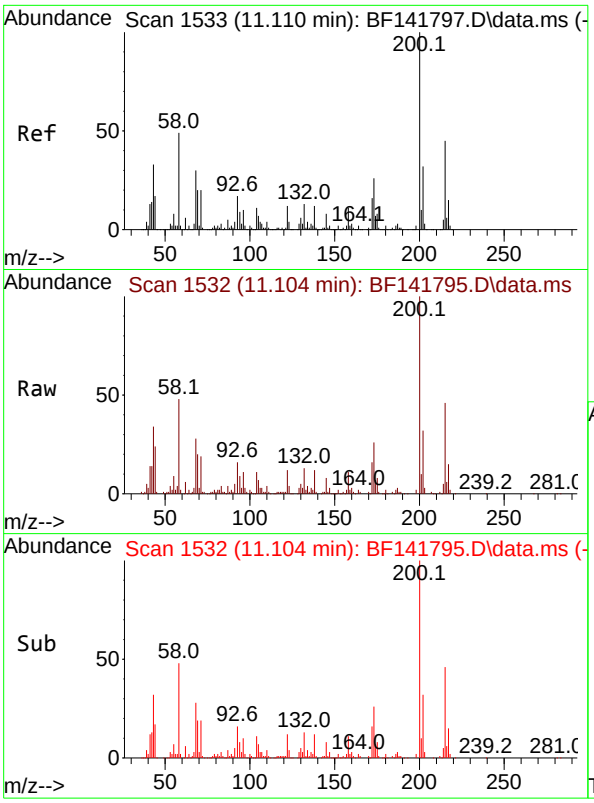


#68
Hexachlorobenzene
Concen: 10.081 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:284 Resp: 136626

Ion	Ratio	Lower	Upper
284	100		
142	37.3	28.2	42.2
249	32.7	25.5	38.3

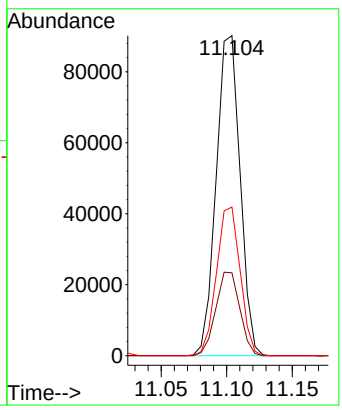




#69
Atrazine
Concen: 11.517 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:200 Resp: 11427

Ion	Ratio	Lower	Upper
200	100		
173	25.9	5.6	45.6
215	46.5	25.3	65.3



Instrument :
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ClientSampleId :
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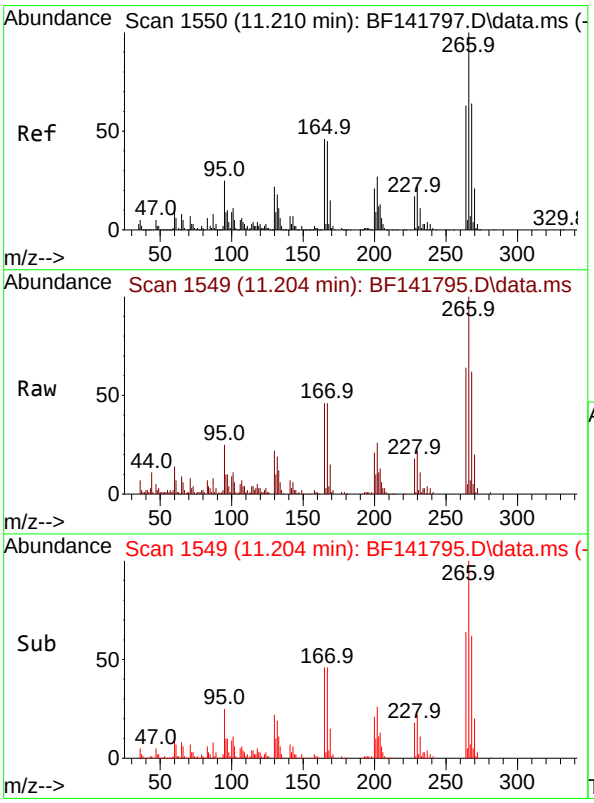
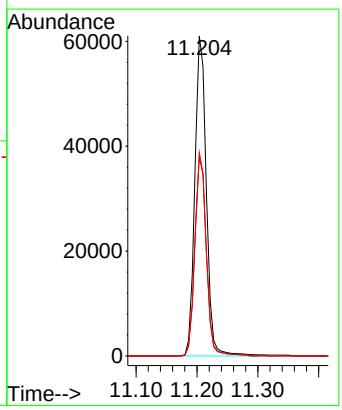
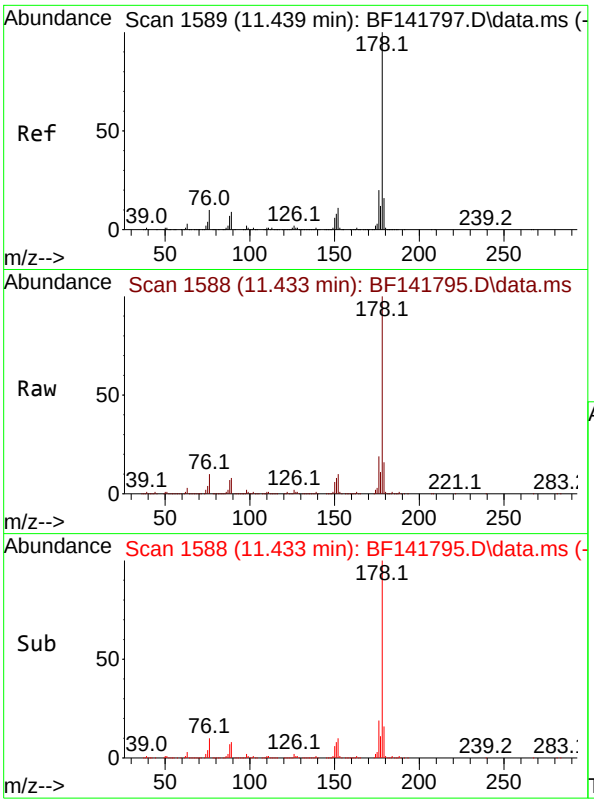


#70
Pentachlorophenol
Concen: 9.334 ng
RT: 11.204 min Scan# 1549
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:266 Resp: 80231

Ion	Ratio	Lower	Upper
266	100		
268	62.2	50.9	76.3
264	63.6	50.2	75.4

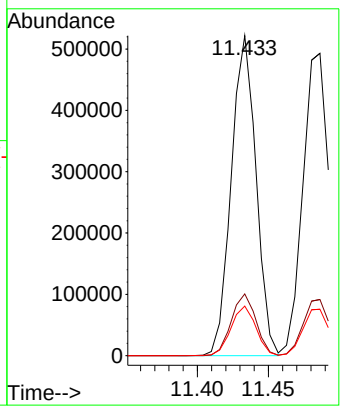




#71
Phenanthrene
Concen: 10.764 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:178 Resp: 63269

Ion	Ratio	Lower	Upper
178	100		
176	19.3	16.0	24.0
179	15.5	12.6	19.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

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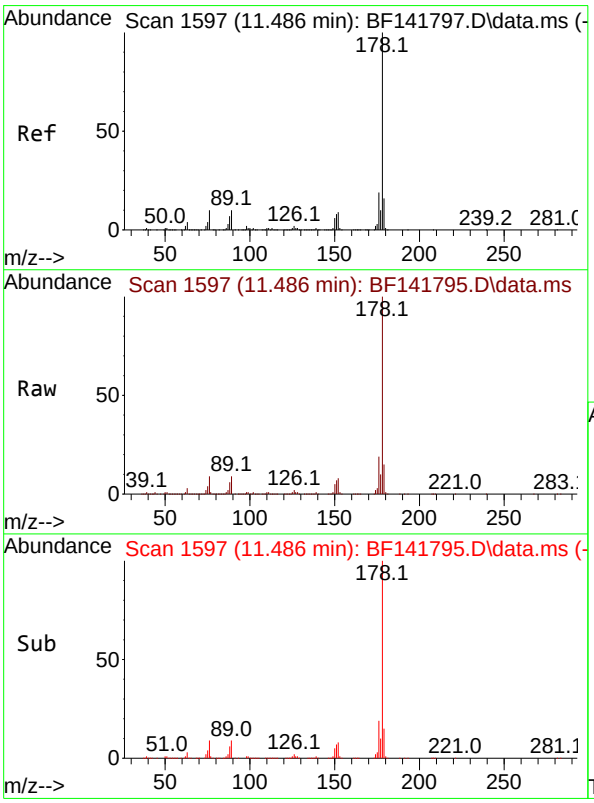
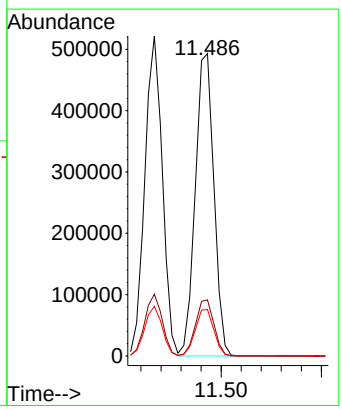
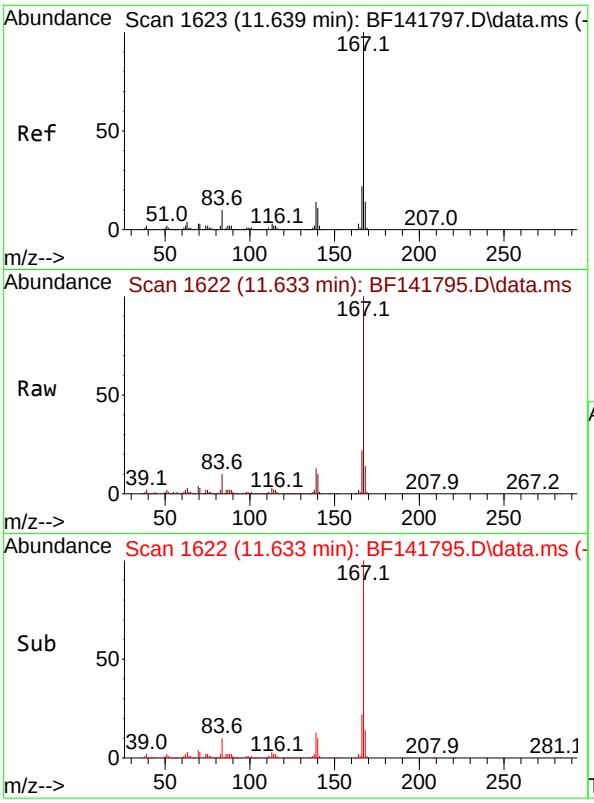


#72
Anthracene
Concen: 10.785 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:178 Resp: 635314

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.0
179	15.4	12.8	19.2

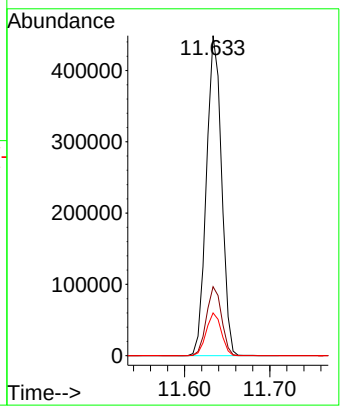




#73
Carbazole
Concen: 10.667 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:167 Resp: 55490

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.5	26.3
139	13.3	11.3	16.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

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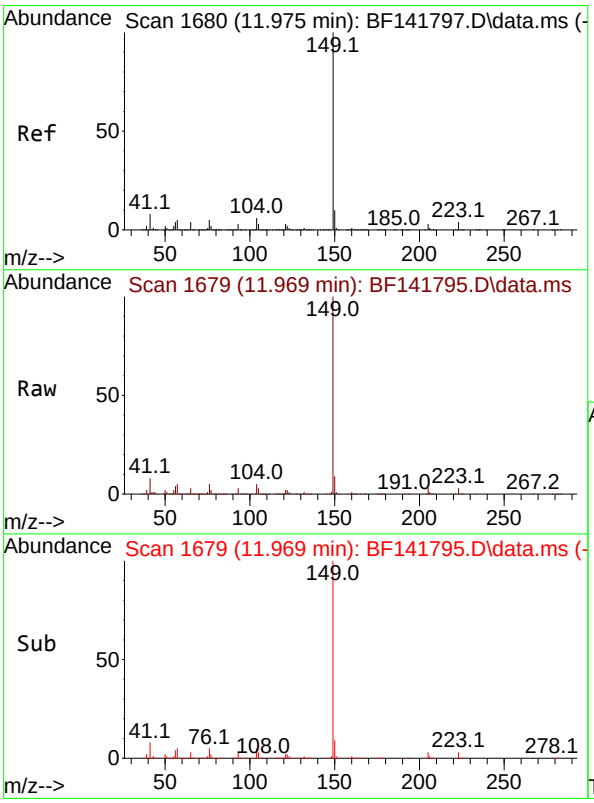
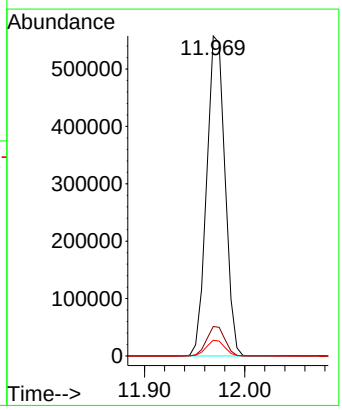
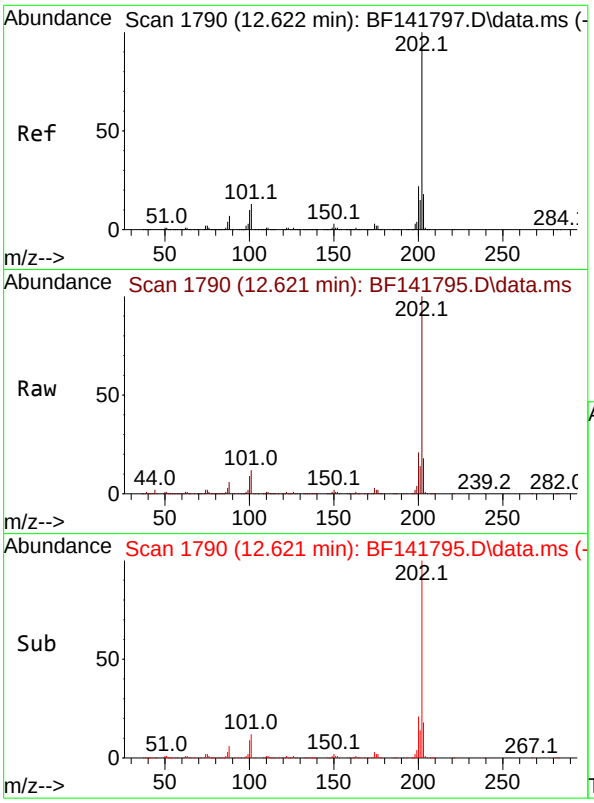


#74
Di-n-butylphthalate
Concen: 10.756 ng
RT: 11.969 min Scan# 1679
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:149 Resp: 709254

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.7	11.5
104	4.9	4.4	6.6





#75
Fluoranthene
Concen: 11.098 ng
RT: 12.621 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:202 Resp: 66837

Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	32.8
203	17.6	0.0	38.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

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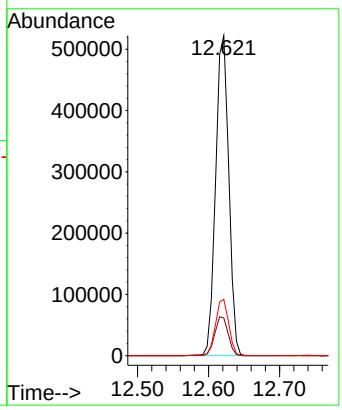
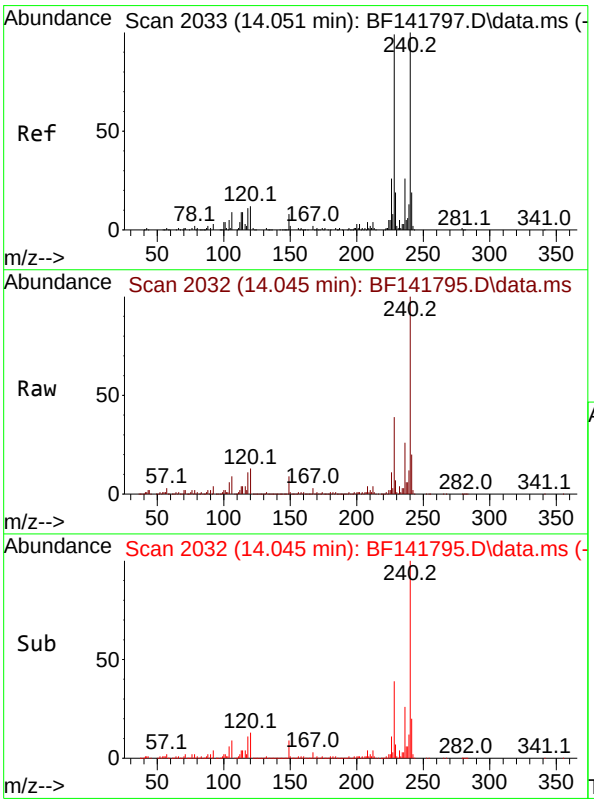
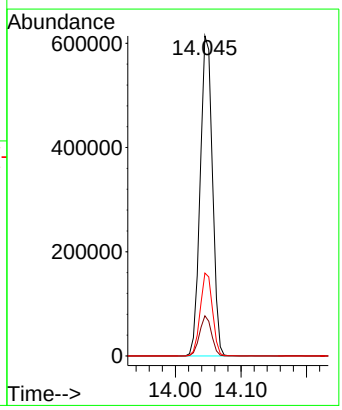


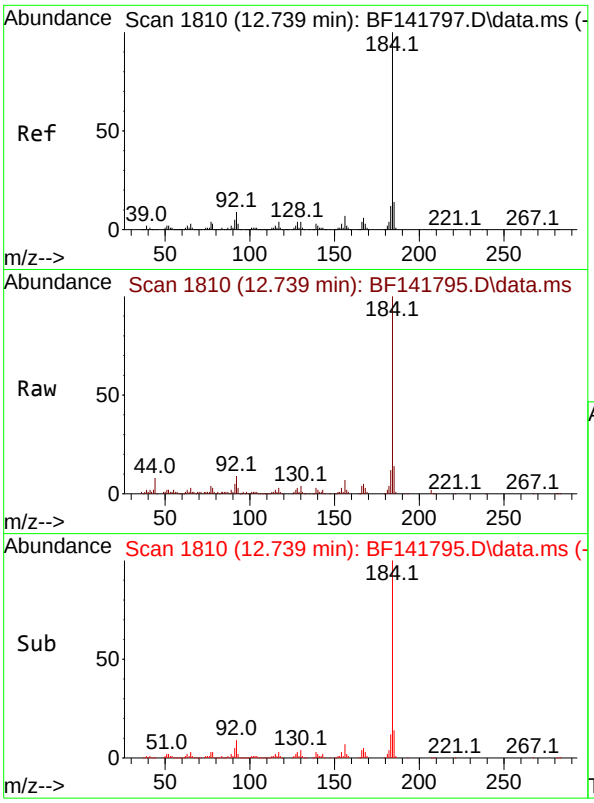


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:240 Resp: 800194

Ion	Ratio	Lower	Upper
240	100		
120	12.6	9.7	14.5
236	25.9	21.0	31.4

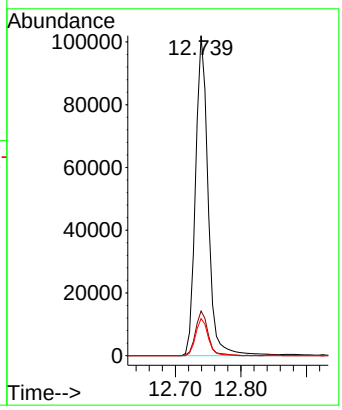




#77
Benzidine
Concen: 13.588 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:184 Resp: 13685

Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.6	17.4
183	11.6	9.4	14.0



Instrument :
BNA_F
ClientSampleId :
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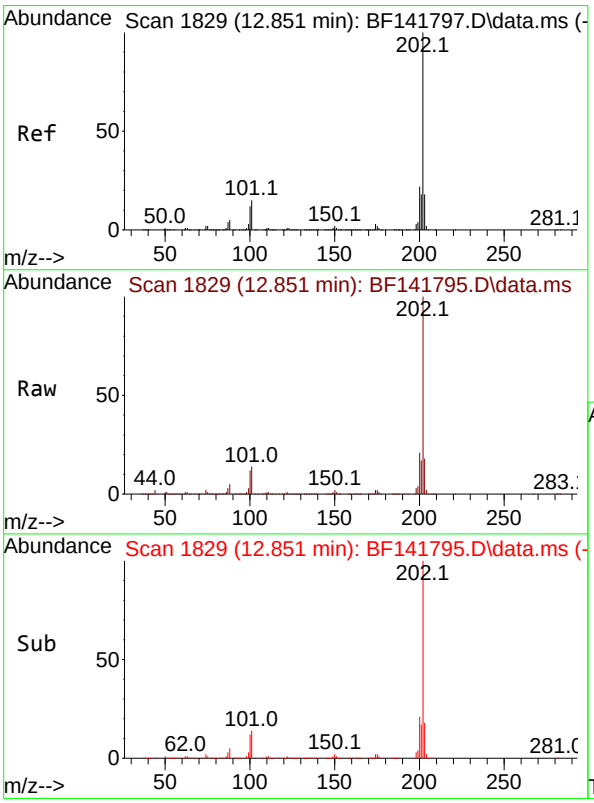
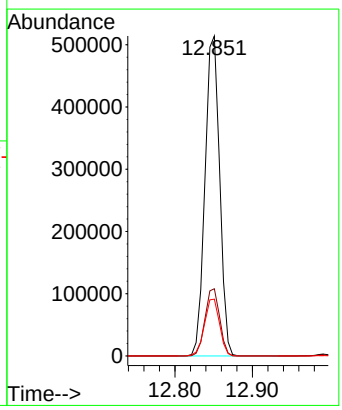
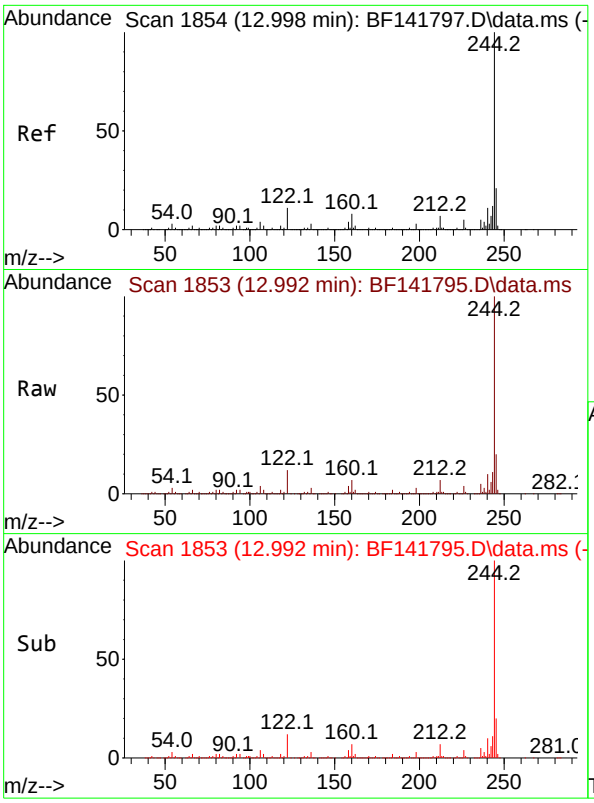


#78
Pyrene
Concen: 9.740 ng
RT: 12.851 min Scan# 1829
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:202 Resp: 674877

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.4	26.0
203	17.7	14.6	22.0

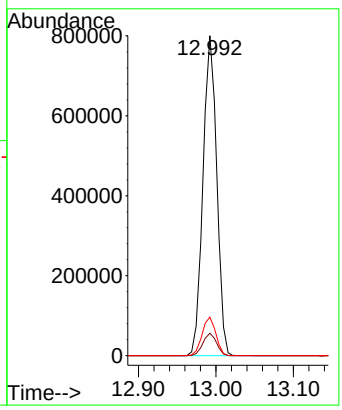




#79
Terphenyl-d14
Concen: 19.952 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:244 Resp: 98678

Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	12.1	9.0	13.6



Instrument :
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ClientSampleId :
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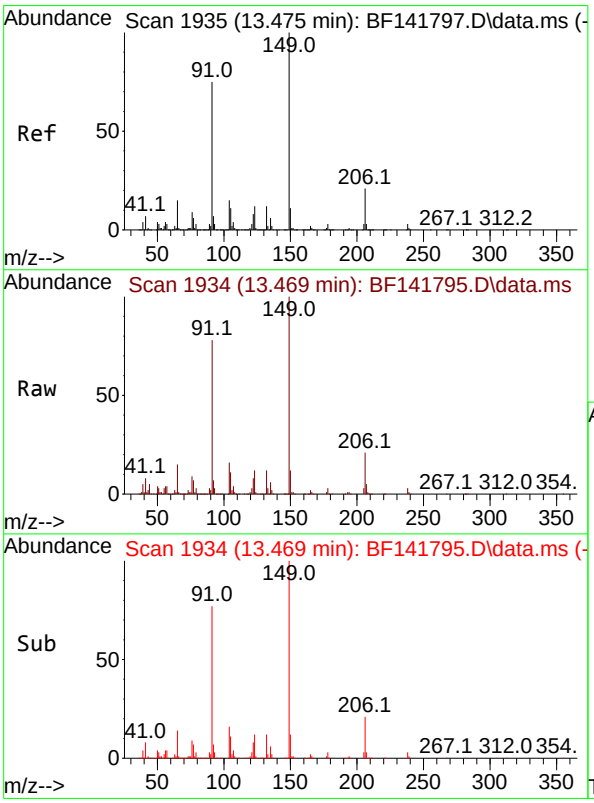
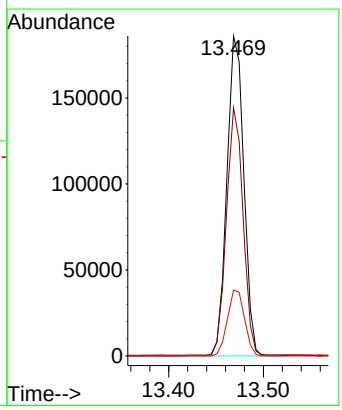
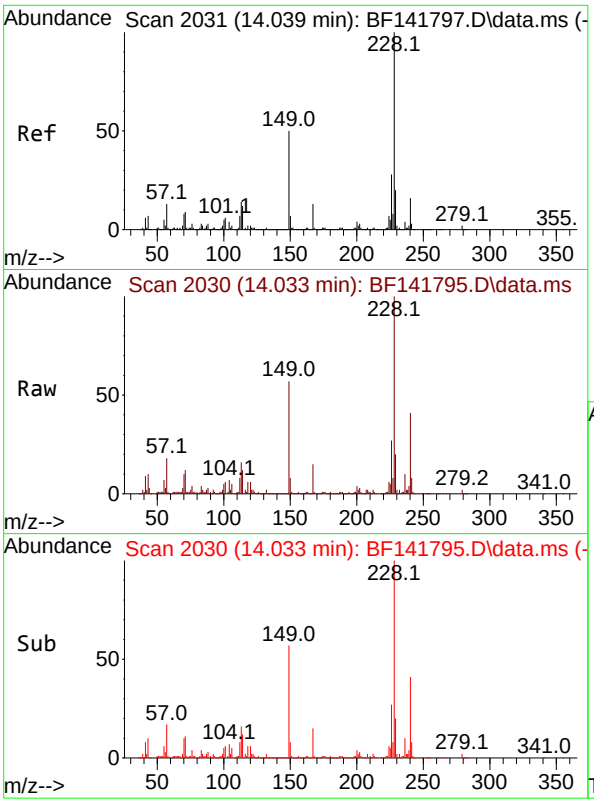


#80
Butylbenzylphthalate
Concen: 9.194 ng
RT: 13.469 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:149 Resp: 231474

Ion	Ratio	Lower	Upper
149	100		
91	77.5	60.1	90.1
206	20.6	16.8	25.2

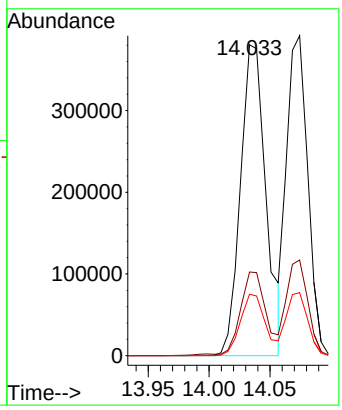




#81
Benzo(a)anthracene
Concen: 10.496 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:228 Resp: 55477

Ion	Ratio	Lower	Upper
228	100		
226	26.9	22.1	33.1
229	19.8	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

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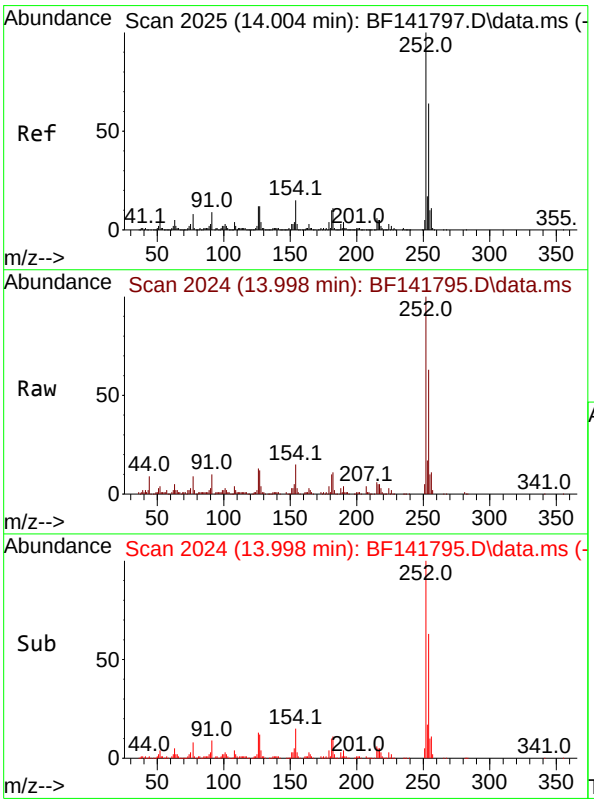
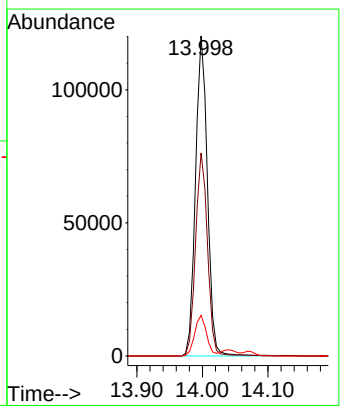
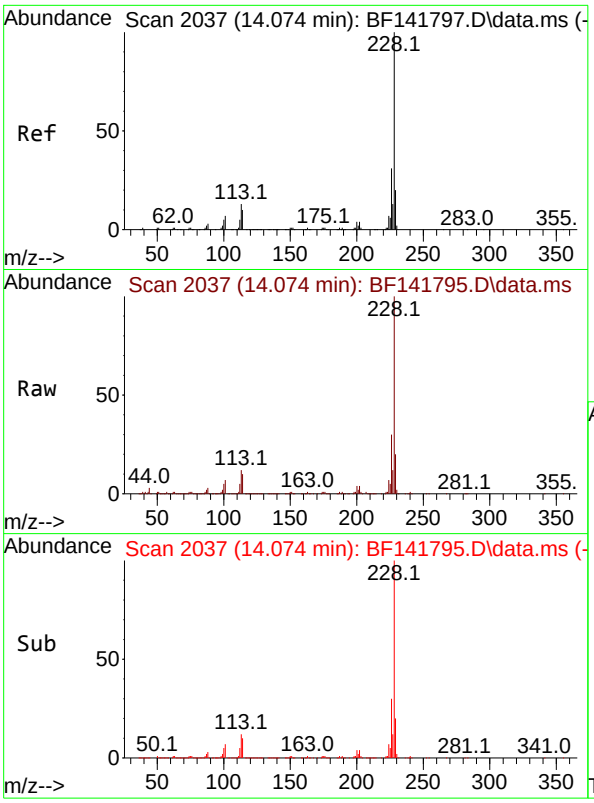


#82
3,3'-Dichlorobenzidine
Concen: 10.033 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:252 Resp: 152147

Ion	Ratio	Lower	Upper
252	100		
254	63.5	51.4	77.0
126	12.7	9.8	14.6

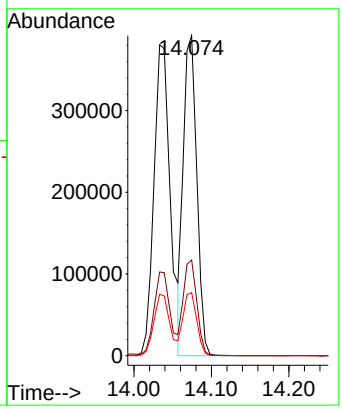




#83
Chrysene
Concen: 9.721 ng
RT: 14.074 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:228 Resp: 47361

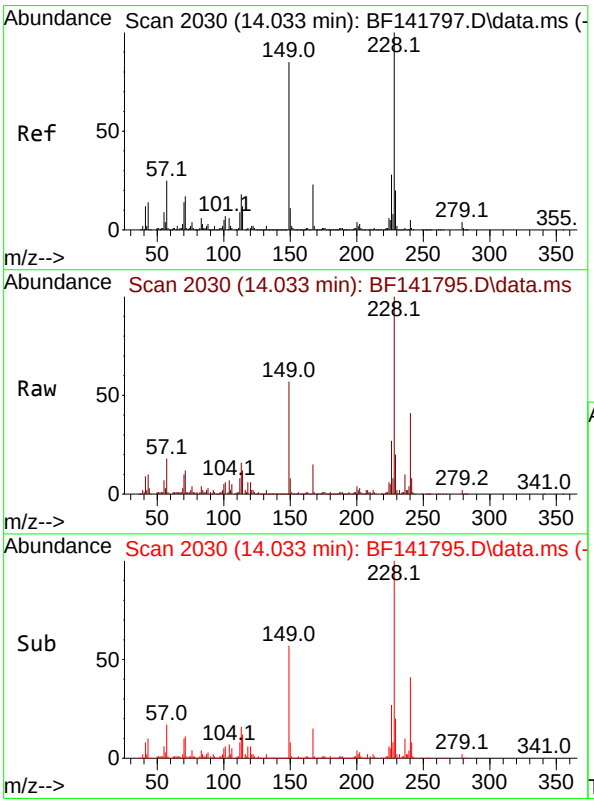
Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.6	37.0
229	19.7	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

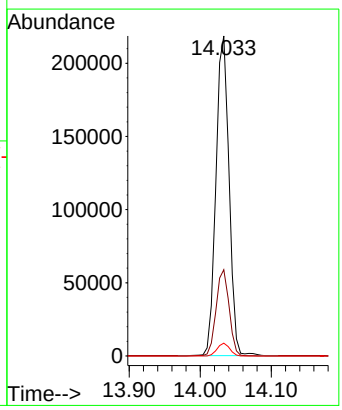
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

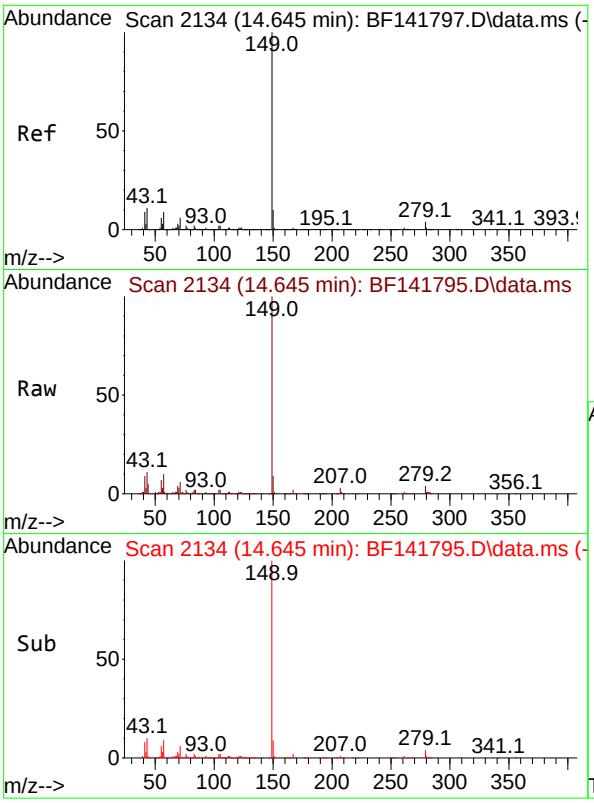


#84
Bis(2-ethylhexyl)phthalate
Concen: 8.884 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:149 Resp: 278482

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.2	31.8
279	4.0	3.3	4.9

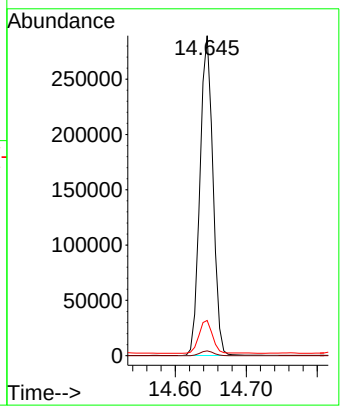




#85
Di-n-octyl phthalate
Concen: 7.857 ng
RT: 14.645 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:149 Resp: 36871

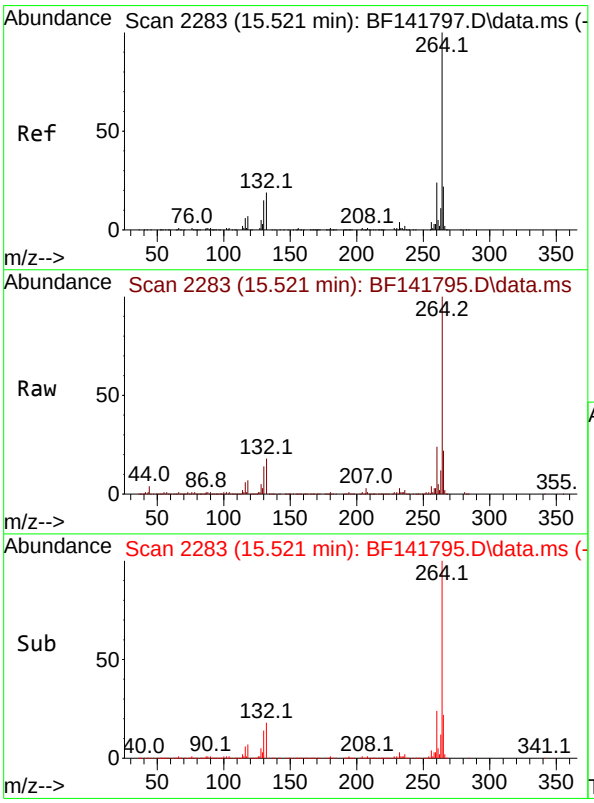
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.8	8.6	12.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

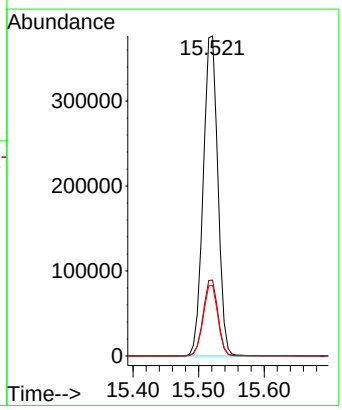
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

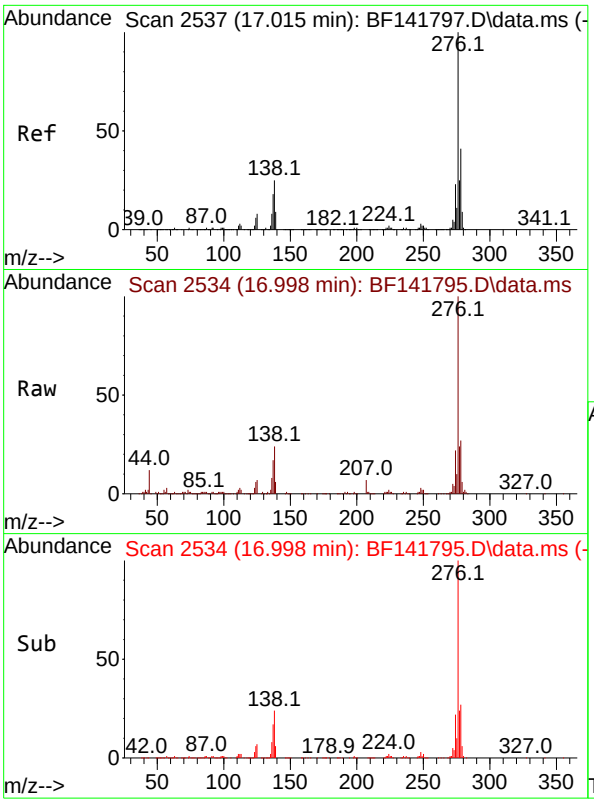


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:264 Resp: 586419

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.9	28.3
265	22.0	17.4	26.0

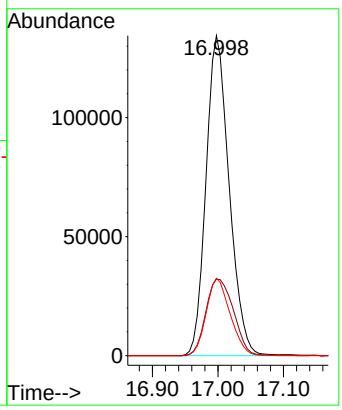




#87
Indeno(1,2,3-cd)pyrene
Concen: 8.838 ng
RT: 16.998 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:276 Resp: 33001

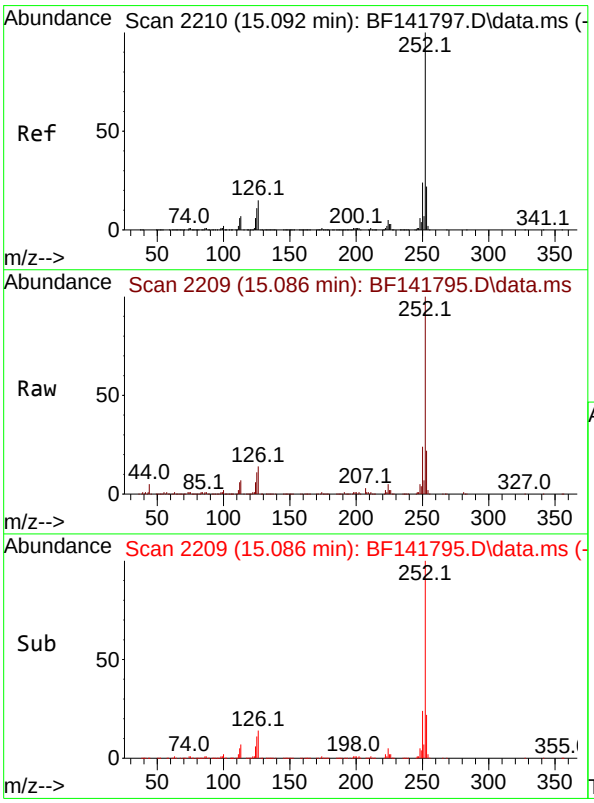
Ion	Ratio	Lower	Upper
276	100		
138	28.6	22.5	33.7
277	25.0	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

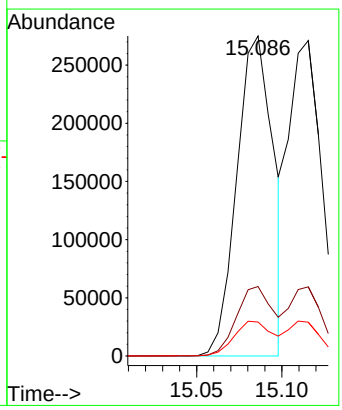
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

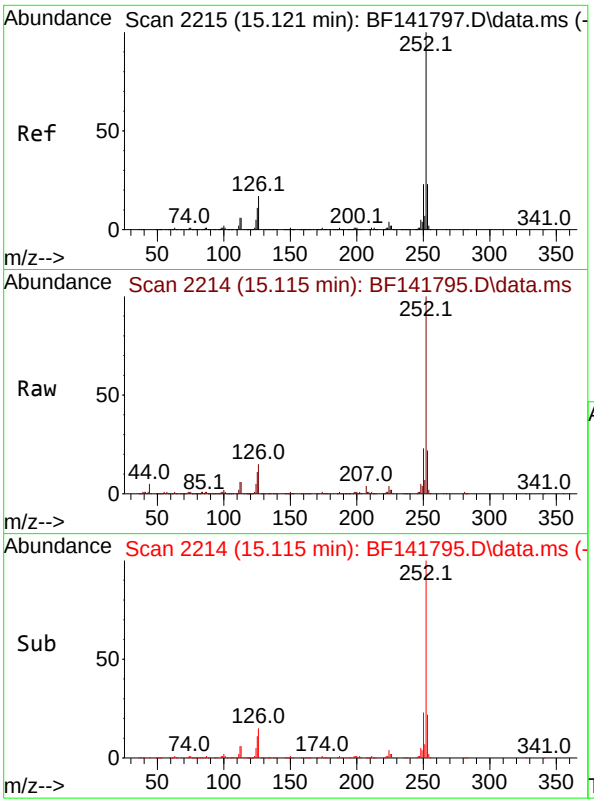


#88
Benzo(b)fluoranthene
Concen: 10.250 ng
RT: 15.086 min Scan# 2209
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:252 Resp: 409420

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.7	26.5
125	10.6	8.6	13.0

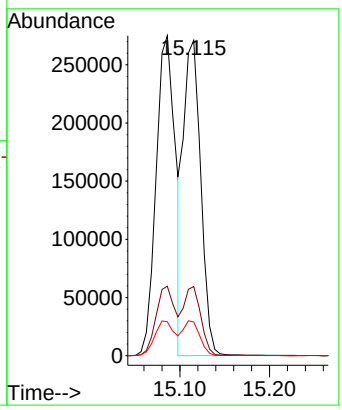




#89
Benzo(k)fluoranthene
Concen: 10.707 ng
RT: 15.115 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:252 Resp: 36351

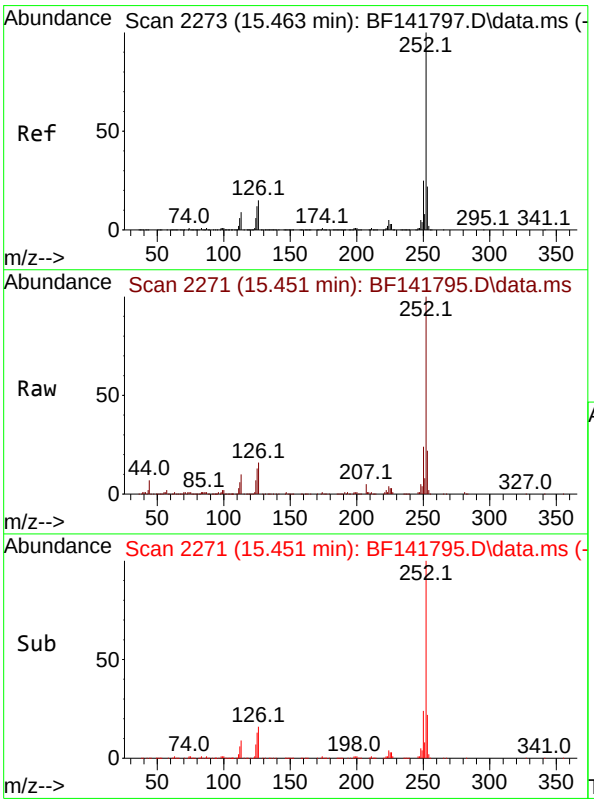
Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.8
125	10.7	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

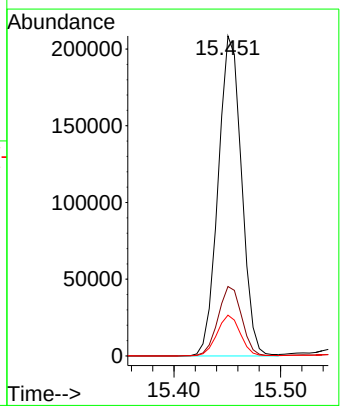
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

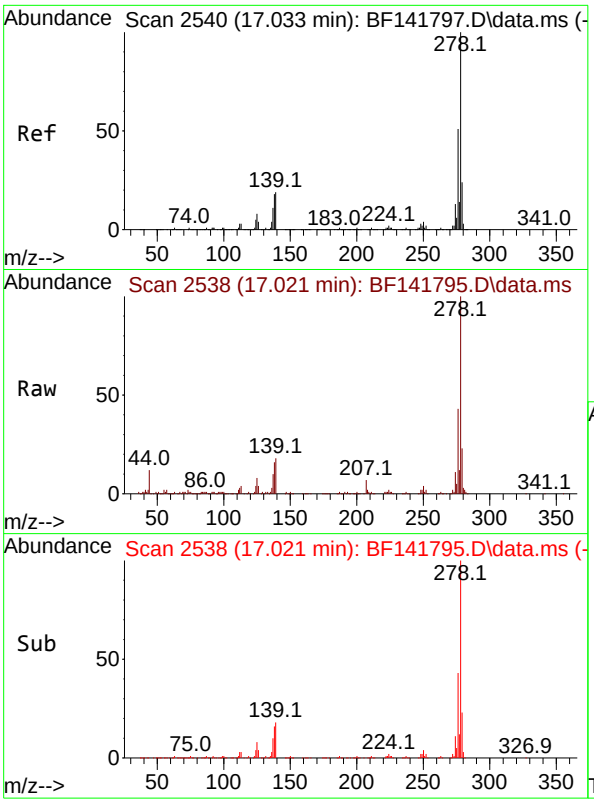


#90
Benzo(a)pyrene
Concen: 9.913 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:252 Resp: 317564

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	12.8	9.4	14.2

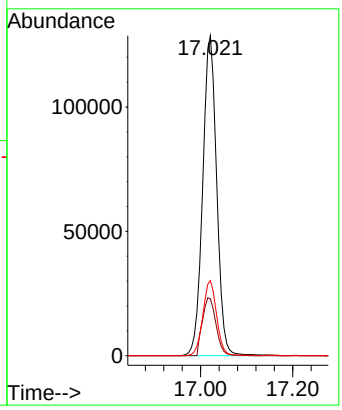




#91
Dibenzo(a,h)anthracene
Concen: 8.954 ng
RT: 17.021 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:278 Resp: 27291

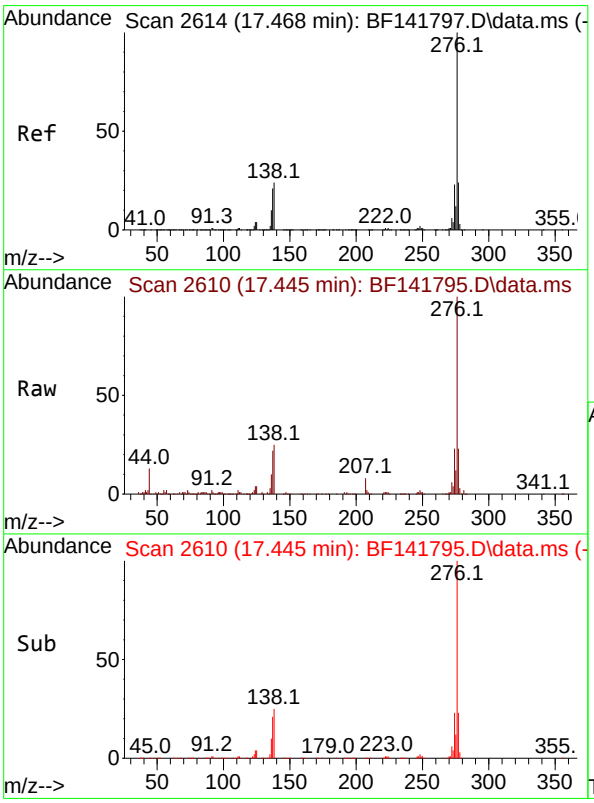
Ion	Ratio	Lower	Upper
278	100		
139	17.8	14.9	22.3
279	23.4	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

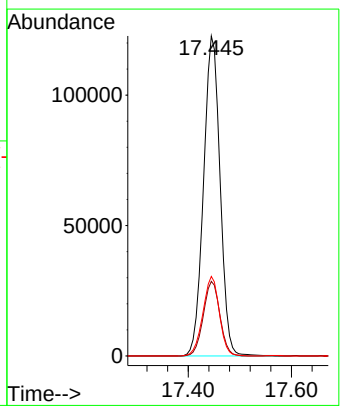
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025



#92
Benzo(g,h,i)perylene
Concen: 8.724 ng
RT: 17.445 min Scan# 2610
Delta R.T. -0.024 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:276 Resp: 272428

Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.4	29.0
138	24.9	19.3	28.9



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141796.D
Acq On : 27 Feb 2025 16:46
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 28 01:24:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	282585	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	1143337	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	626338	20.000	ng		0.00
64) Phenanthrene-d10	11.410	188	1041715	20.000	ng		0.00
76) Chrysene-d12	14.045	240	688606	20.000	ng		0.00
86) Perylene-d12	15.521	264	539147	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.498	112	749674	42.367	ng		0.00
7) Phenol-d6	6.498	99	976719	42.408	ng		-0.01
23) Nitrobenzene-d5	7.445	82	726034	40.590	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	235147	39.990	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1686318	43.170	ng		0.00
79) Terphenyl-d14	12.992	244	1785806	41.959	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.681	88	162630	20.255	ng		100
3) Pyridine	3.446	79	419991	21.024	ng		99
4) n-Nitrosodimethylamine	3.387	42	194836	20.270	ng		99
6) Aniline	6.551	93	510018	21.416	ng		99
8) 2-Chlorophenol	6.669	128	406583	21.241	ng		99
9) Benzaldehyde	6.440	77	289246	21.590	ng		99
10) Phenol	6.516	94	527399m	21.493	ng		
11) bis(2-Chloroethyl)ether	6.622	93	393290	20.964	ng		99
12) 1,3-Dichlorobenzene	6.828	146	435544	21.247	ng		99
13) 1,4-Dichlorobenzene	6.904	146	437770	21.195	ng		100
14) 1,2-Dichlorobenzene	7.057	146	416995	21.620	ng		99
15) Benzyl Alcohol	7.022	79	388176	21.089	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	607289	21.316	ng		99
17) 2-Methylphenol	7.128	107	329265	20.839	ng		99
18) Hexachloroethane	7.404	117	162363	21.002	ng		98
19) n-Nitroso-di-n-propyla...	7.293	70	316487	20.904	ng		99
20) 3+4-Methylphenols	7.281	107	425612	21.633	ng		98
22) Acetophenone	7.293	105	585913	21.041	ng	#	97
24) Nitrobenzene	7.463	77	395521	20.649	ng		97
25) Isophorone	7.704	82	789349	20.541	ng		99
26) 2-Nitrophenol	7.781	139	132844	18.604	ng		98
27) 2,4-Dimethylphenol	7.810	122	292966	20.740	ng		99
28) bis(2-Chloroethoxy)met...	7.916	93	513944	20.966	ng		99
29) 2,4-Dichlorophenol	8.016	162	338122	20.749	ng		99
30) 1,2,4-Trichlorobenzene	8.110	180	374188	20.955	ng		99
31) Naphthalene	8.192	128	1258082	21.409	ng		99
32) Benzoic acid	7.898	122	165613	19.487	ng		98
33) 4-Chloroaniline	8.234	127	454568	21.097	ng		100
34) Hexachlorobutadiene	8.310	225	230541	20.776	ng		98
35) Caprolactam	8.587	113	102898	20.521	ng		99
36) 4-Chloro-3-methylphenol	8.704	107	376094	20.776	ng		99
37) 2-Methylnaphthalene	8.881	142	826497	21.443	ng		99
38) 1-Methylnaphthalene	8.981	142	796808	21.545	ng		99
40) 1,2,4,5-Tetrachloroben...	9.045	216	377360	20.861	ng		99
41) Hexachlorocyclopentadiene	9.034	237	158105	20.943	ng		99
43) 2,4,6-Trichlorophenol	9.151	196	238591	20.419	ng		100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141796.D
Acq On : 27 Feb 2025 16:46
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 28 01:24:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.187	196	242709	20.976	ng		99
46) 1,1'-Biphenyl	9.345	154	1021081	21.418	ng		99
47) 2-Chloronaphthalene	9.369	162	752142	21.375	ng		99
48) 2-Nitroaniline	9.457	65	153869	18.870	ng		97
49) Acenaphthylene	9.786	152	1126303	21.349	ng		99
50) Dimethylphthalate	9.645	163	879870	20.977	ng		100
51) 2,6-Dinitrotoluene	9.704	165	144673	19.796	ng		98
52) Acenaphthene	9.957	154	749963	21.068	ng		99
53) 3-Nitroaniline	9.869	138	152114	19.664	ng	#	99
54) 2,4-Dinitrophenol	9.969	184	41521	19.116	ng	#	1
55) Dibenzofuran	10.128	168	1105278	21.332	ng		99
56) 4-Nitrophenol	10.010	139	123415	19.922	ng		98
57) 2,4-Dinitrotoluene	10.104	165	165949	19.214	ng		98
58) Fluorene	10.469	166	822264	21.187	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	210339	20.902	ng		99
60) Diethylphthalate	10.345	149	894118	21.264	ng		99
61) 4-Chlorophenyl-phenyle...	10.463	204	409697	21.069	ng		99
62) 4-Nitroaniline	10.481	138	143482	20.031	ng		98
63) Azobenzene	10.622	77	942499	21.288	ng		99
65) 4,6-Dinitro-2-methylph...	10.510	198	65163	19.161	ng		97
66) n-Nitrosodiphenylamine	10.581	169	717531	20.977	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	248503	20.423	ng		98
68) Hexachlorobenzene	11.016	284	265367	20.653	ng		97
69) Atrazine	11.104	200	203939	21.680	ng		99
70) Pentachlorophenol	11.210	266	167231	20.521	ng		99
71) Phenanthrene	11.433	178	1181769	21.209	ng		99
72) Anthracene	11.486	178	1203701	21.554	ng		99
73) Carbazole	11.639	167	1056147	21.416	ng		99
74) Di-n-butylphthalate	11.975	149	1345098	21.518	ng		99
75) Fluoranthene	12.622	202	1242031	21.753	ng		99
77) Benzidine	12.739	184	136521	15.752	ng		99
78) Pyrene	12.851	202	1249647	20.957	ng		99
80) Butylbenzylphthalate	13.469	149	442702	20.434	ng		98
81) Benzo(a)anthracene	14.039	228	953146	20.956	ng		99
82) 3,3'-Dichlorobenzidine	13.998	252	262708	20.132	ng		100
83) Chrysene	14.074	228	850641	20.288	ng		100
84) Bis(2-ethylhexyl)phtha...	14.033	149	542812	20.122	ng		100
85) Di-n-octyl phthalate	14.645	149	763685	18.910	ng		100
87) Indeno(1,2,3-cd)pyrene	17.004	276	668777	19.480	ng		99
88) Benzo(b)fluoranthene	15.086	252	826369	22.501	ng		100
89) Benzo(k)fluoranthene	15.116	252	592250	18.973	ng		99
90) Benzo(a)pyrene	15.457	252	610871	20.740	ng		99
91) Dibenzo(a,h)anthracene	17.027	278	552725	19.724	ng		98
92) Benzo(g,h,i)perylene	17.451	276	557705	19.426	ng		100

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

ICAL Form

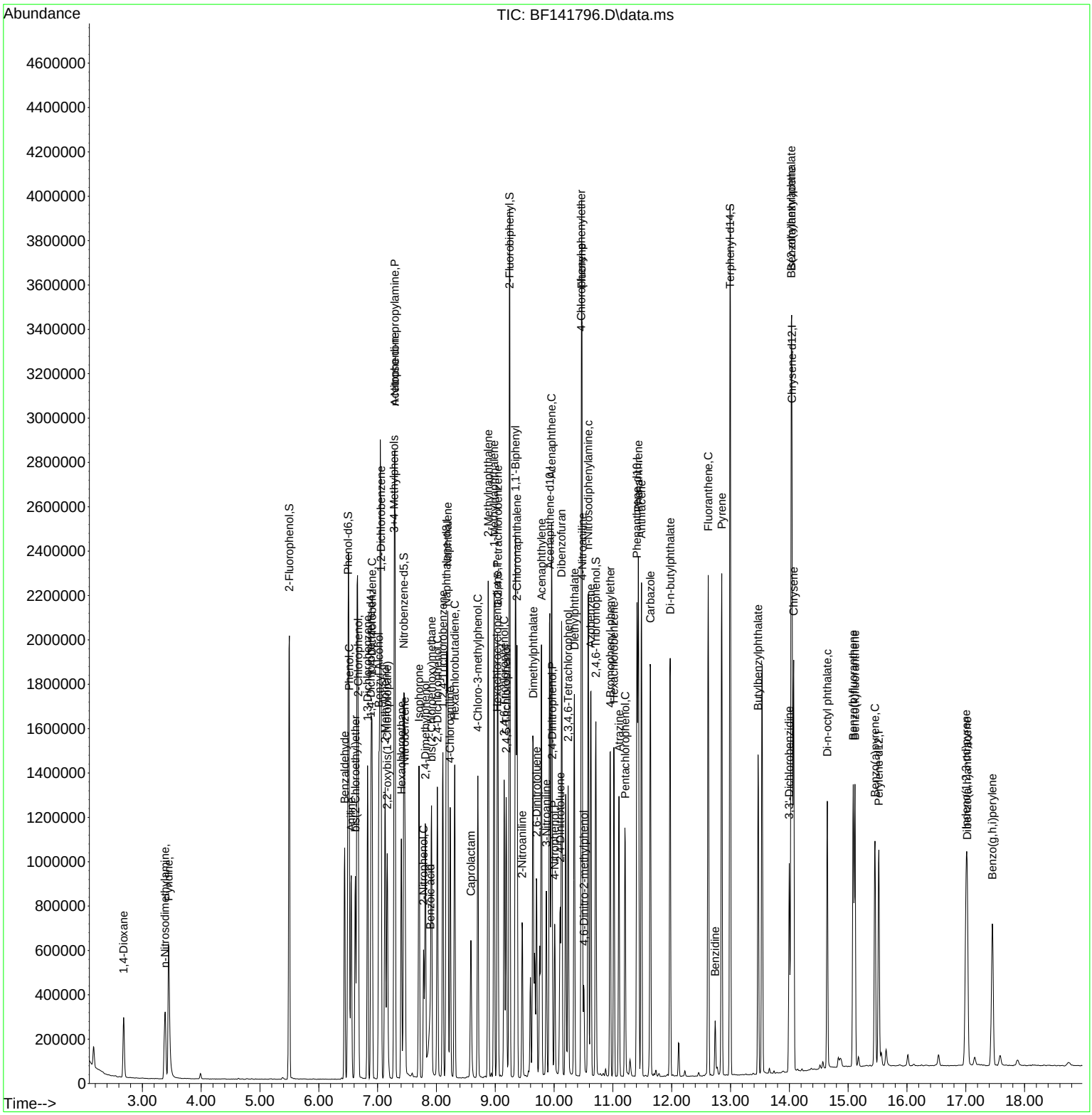
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141796.D
Acq On : 27 Feb 2025 16:46
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

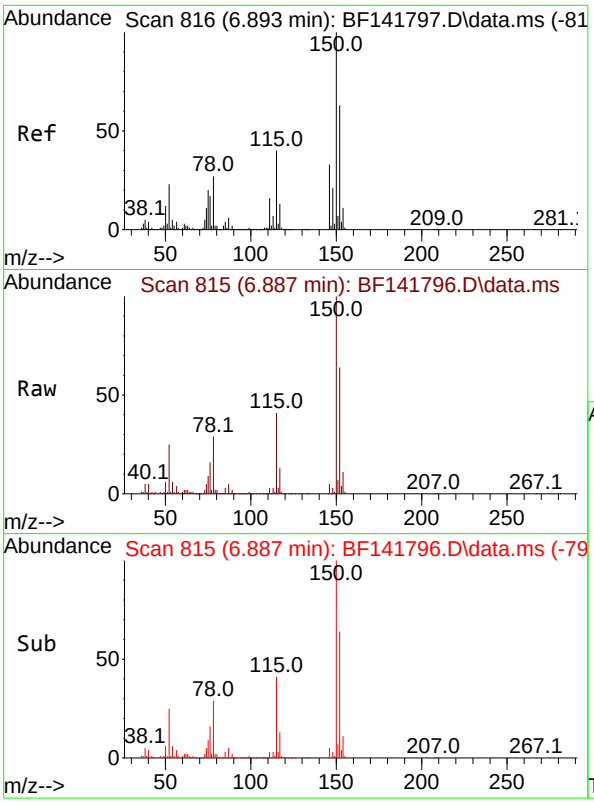
Quant Time: Feb 28 01:24:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

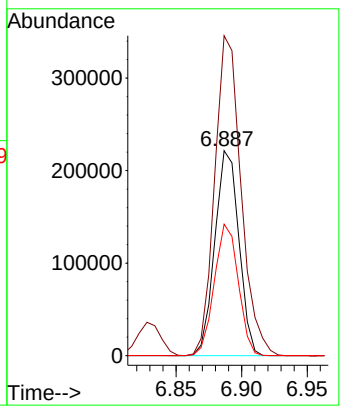




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:152 Resp: 28258

Ion	Ratio	Lower	Upper
152	100		
150	156.1	127.5	191.3
115	64.2	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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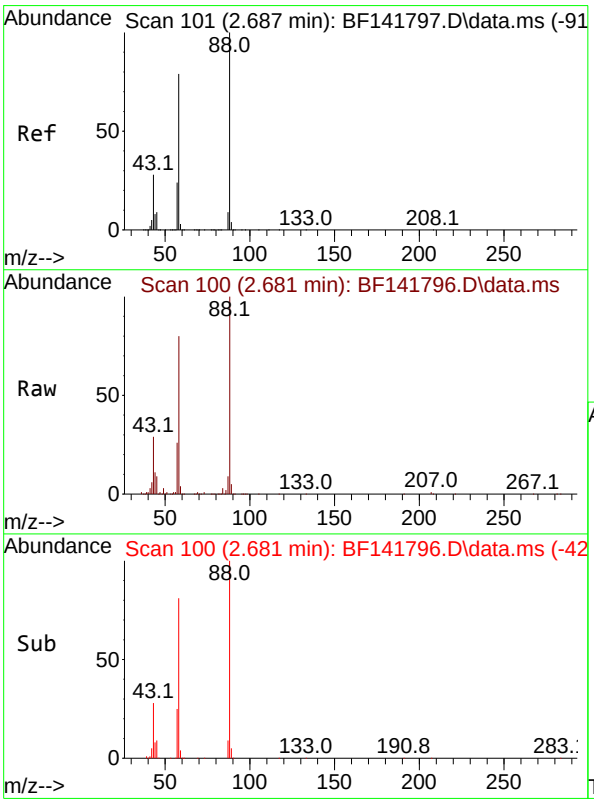
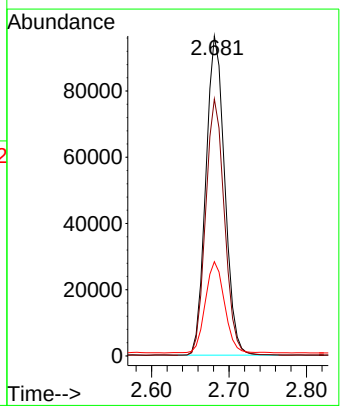
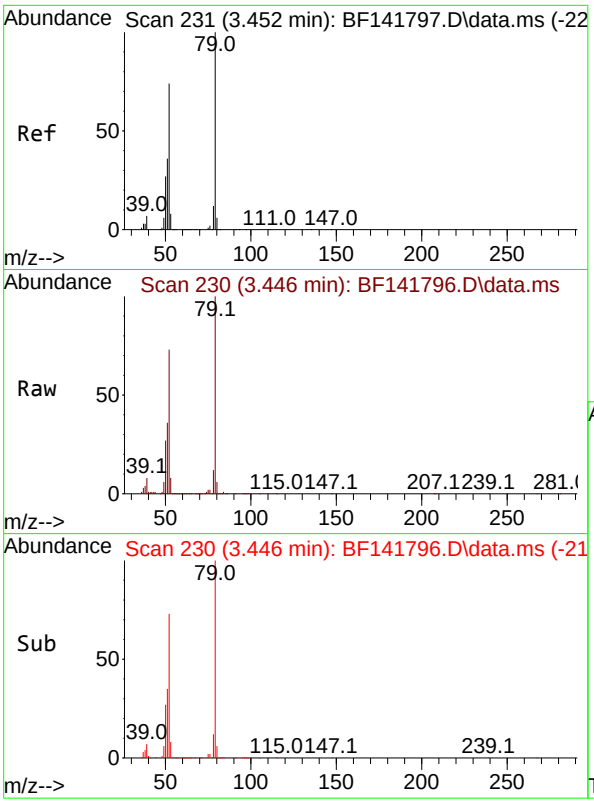


#2
1,4-Dioxane
Concen: 20.255 ng
RT: 2.681 min Scan# 100
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 88 Resp: 162630

Ion	Ratio	Lower	Upper
88	100		
58	80.0	63.9	95.9
43	29.0	23.0	34.6

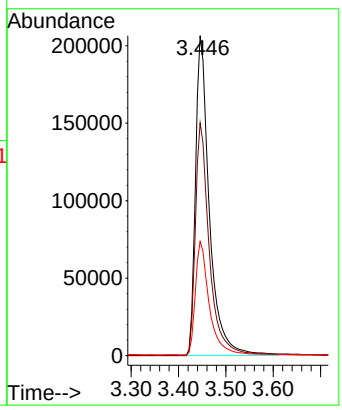




#3
Pyridine
Concen: 21.024 ng
RT: 3.446 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 79 Resp: 41999

Ion	Ratio	Lower	Upper
79	100		
52	72.7	59.0	88.4
51	35.7	29.0	43.4



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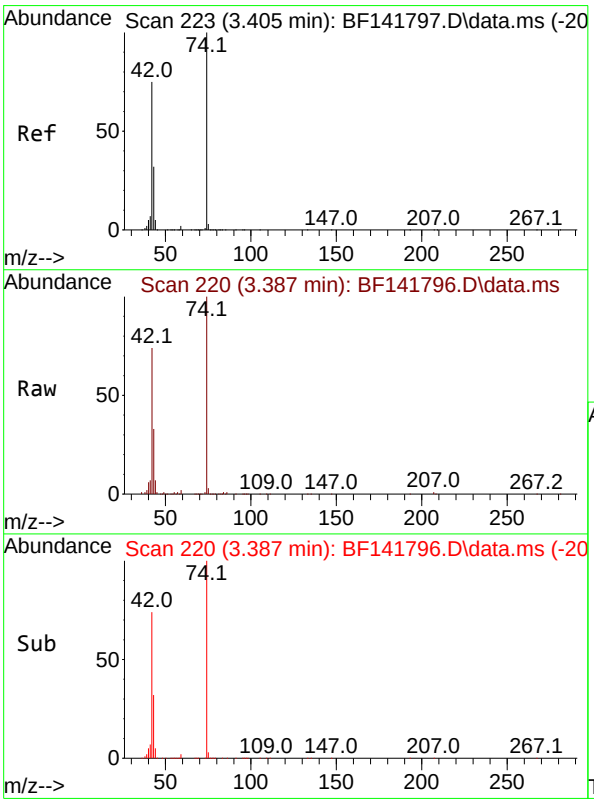
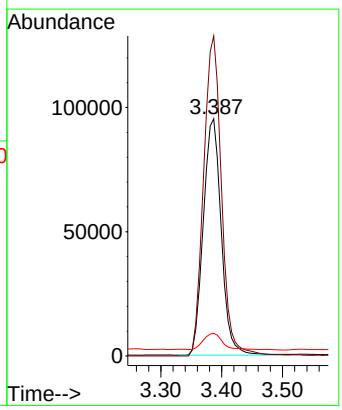
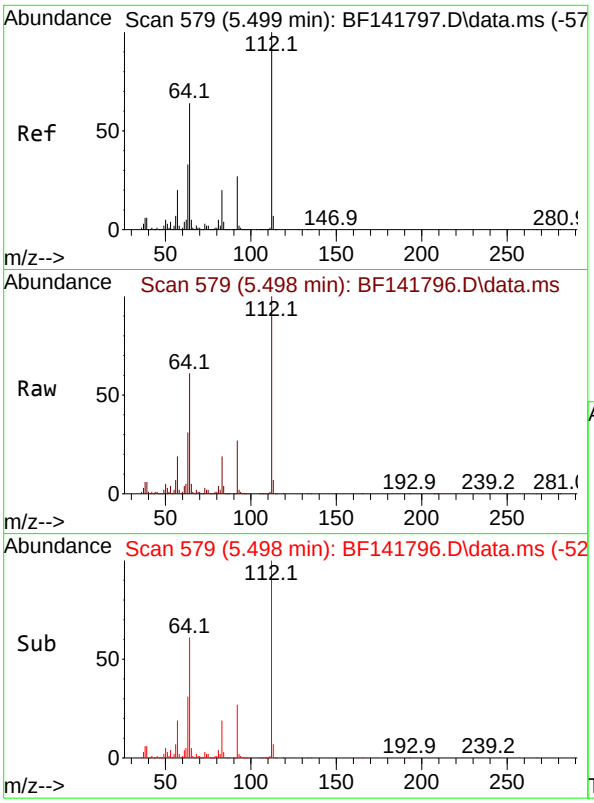


#4
n-Nitrosodimethylamine
Concen: 20.270 ng
RT: 3.387 min Scan# 220
Delta R.T. -0.018 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 42 Resp: 194836

Ion	Ratio	Lower	Upper
42	100		
74	135.0	107.1	160.7
44	9.5	6.6	9.8





#5
2-Fluorophenol
Concen: 42.367 ng
RT: 5.498 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:112 Resp: 74967

Ion	Ratio	Lower	Upper
112	100		
64	61.3	51.3	76.9
63	31.1	26.2	39.4

Instrument :
BNA_F
ClientSampleId :
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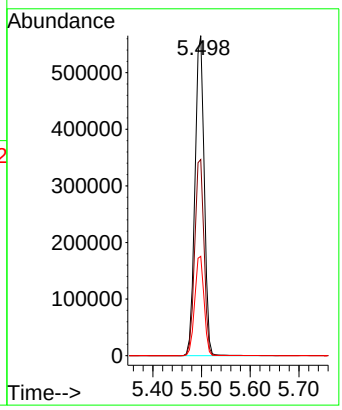
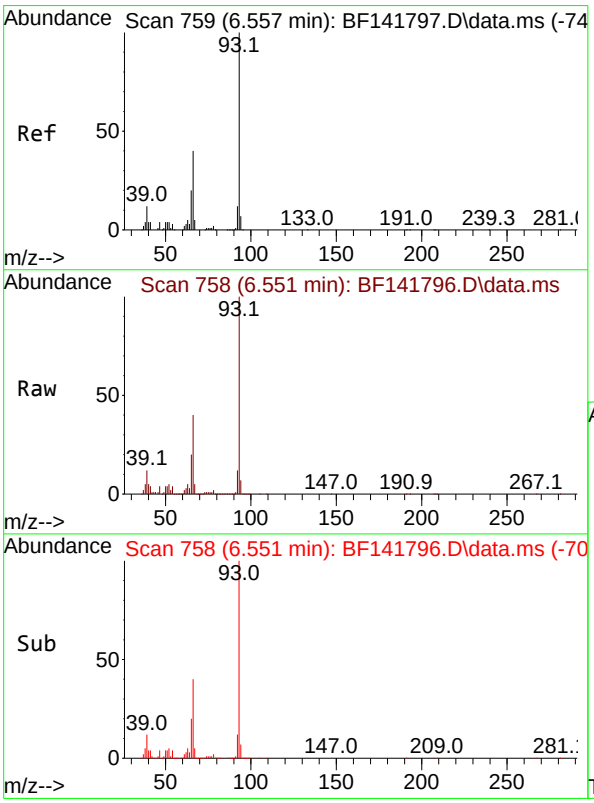
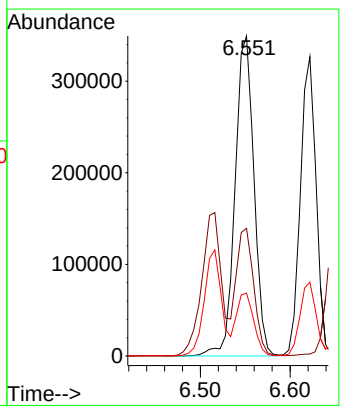


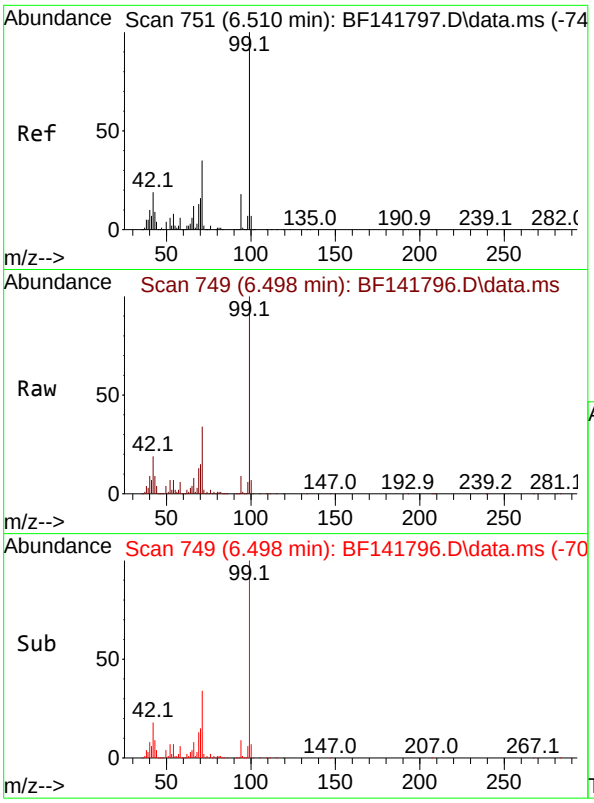


#6
Aniline
Concen: 21.416 ng
RT: 6.551 min Scan# 758
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 93 Resp: 510018

Ion	Ratio	Lower	Upper
93	100		
66	39.9	32.3	48.5
65	19.7	15.9	23.9

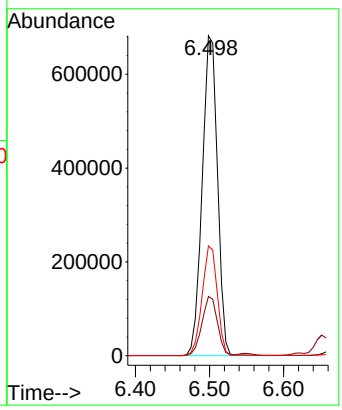




#7
Phenol-d6
Concen: 42.408 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 99 Resp: 97671

Ion	Ratio	Lower	Upper
99	100		
42	18.5	15.2	22.8
71	34.3	28.2	42.2



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ClientSampleId :
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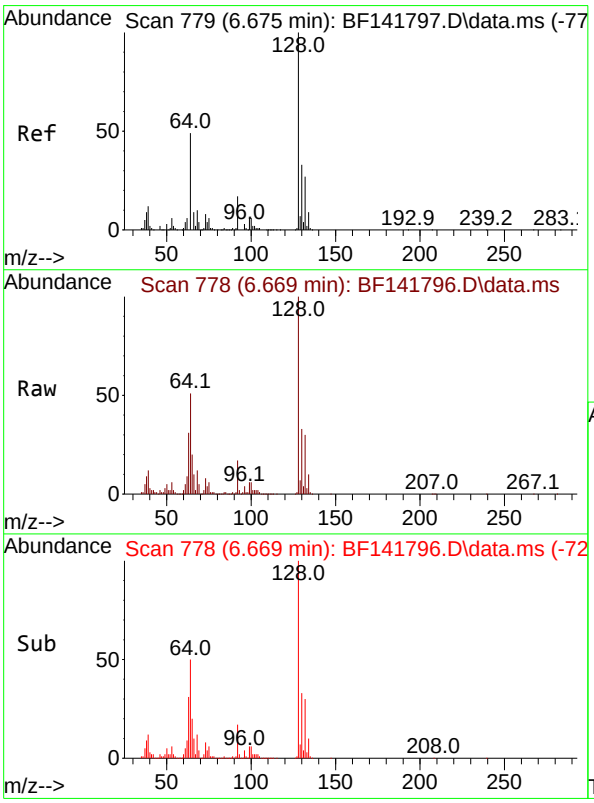
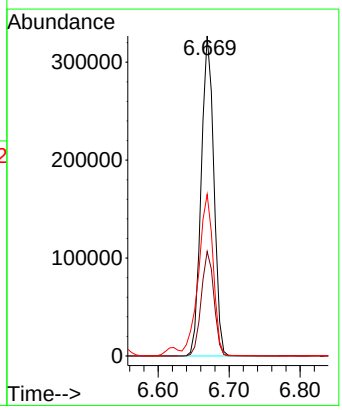
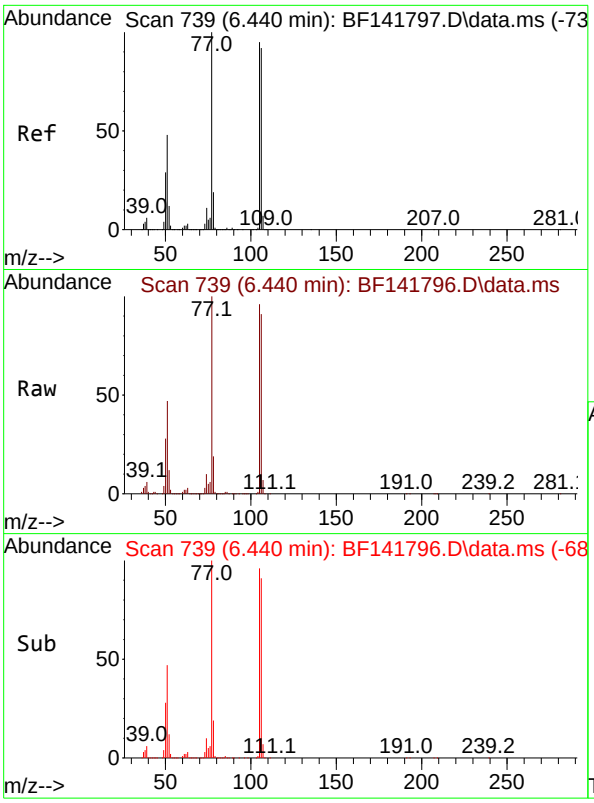


#8
2-Chlorophenol
Concen: 21.241 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:128 Resp: 406583

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.6	52.6
64	50.5	31.1	71.1

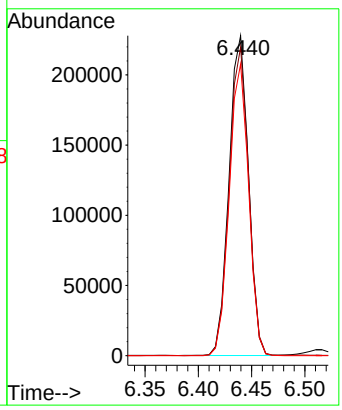




#9
Benzaldehyde
Concen: 21.590 ng
RT: 6.440 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 77 Resp: 28924

Ion	Ratio	Lower	Upper
77	100		
105	96.4	75.3	115.3
106	91.1	72.3	112.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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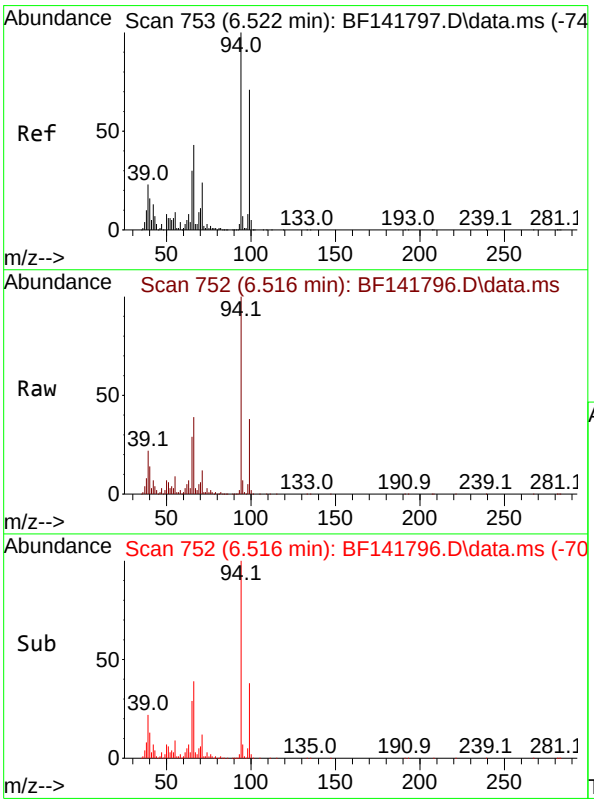
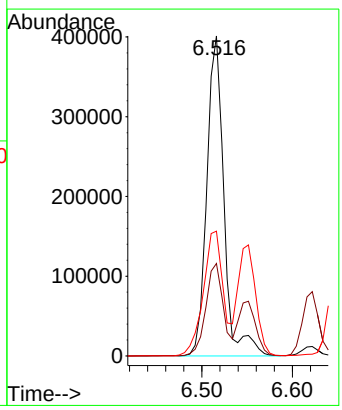
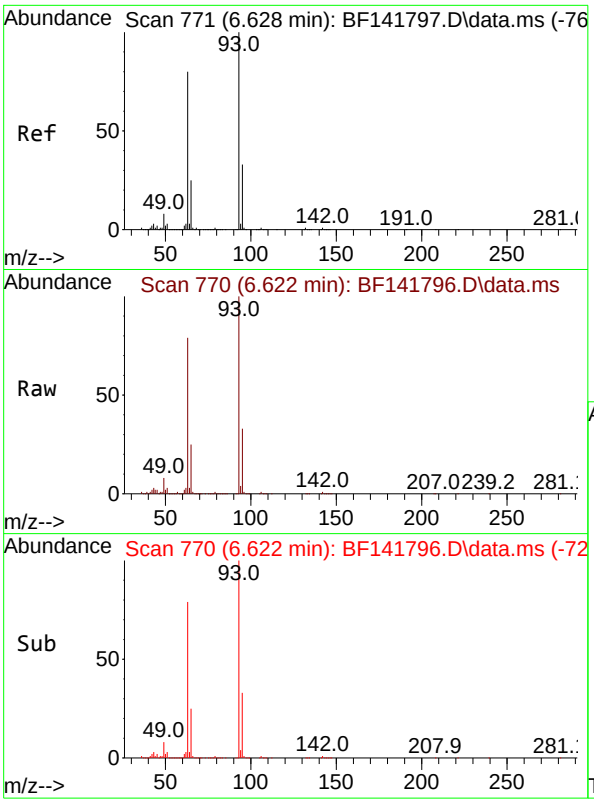


#10
Phenol
Concen: 21.493 ng m
RT: 6.516 min Scan# 752
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 94 Resp: 527399

Ion	Ratio	Lower	Upper
94	100		
65	28.9	10.2	50.2
66	39.0	23.2	63.2

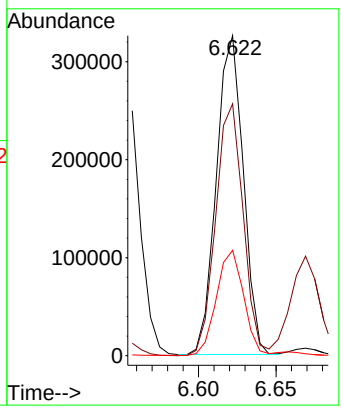




#11
bis(2-Chloroethyl)ether
Concen: 20.964 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 93 Resp: 39329

Ion	Ratio	Lower	Upper
93	100		
63	78.7	59.3	99.3
95	32.9	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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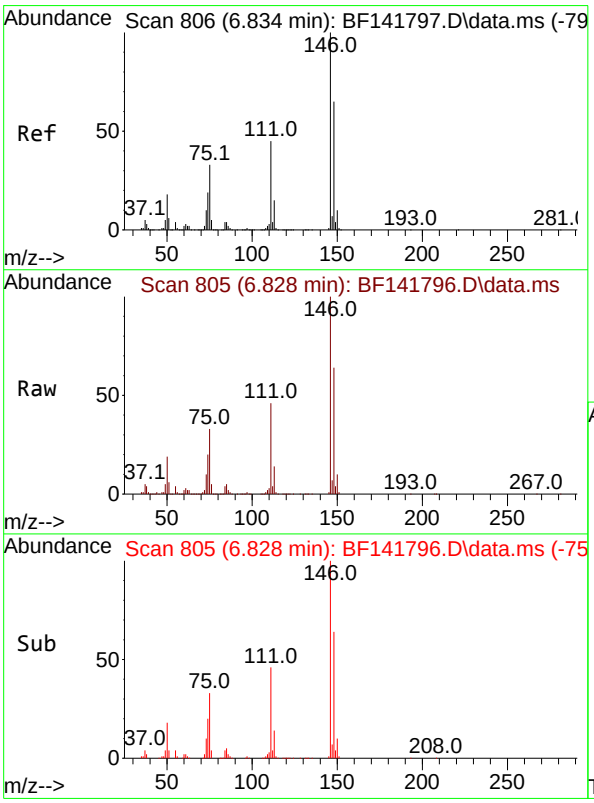
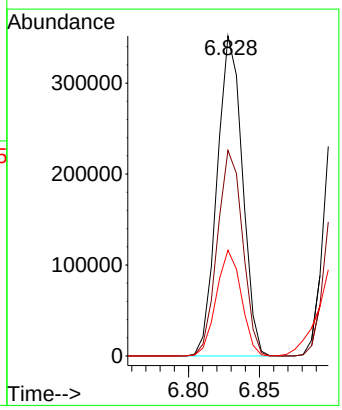
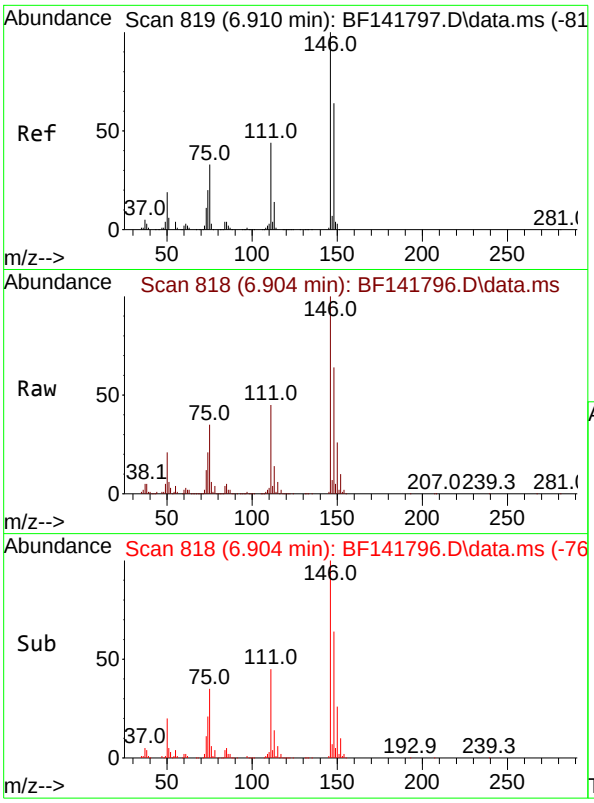


#12
1,3-Dichlorobenzene
Concen: 21.247 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:146 Resp: 435544

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.8	77.6
75	33.0	26.2	39.4

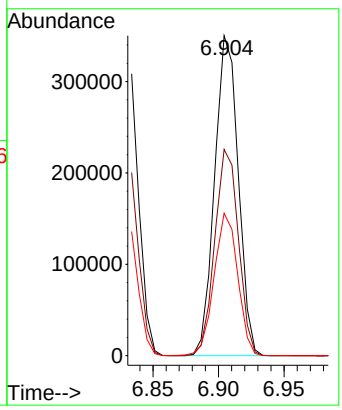




#13
1,4-Dichlorobenzene
Concen: 21.195 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:146 Resp: 43777

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.4	77.2
111	44.5	35.5	53.3



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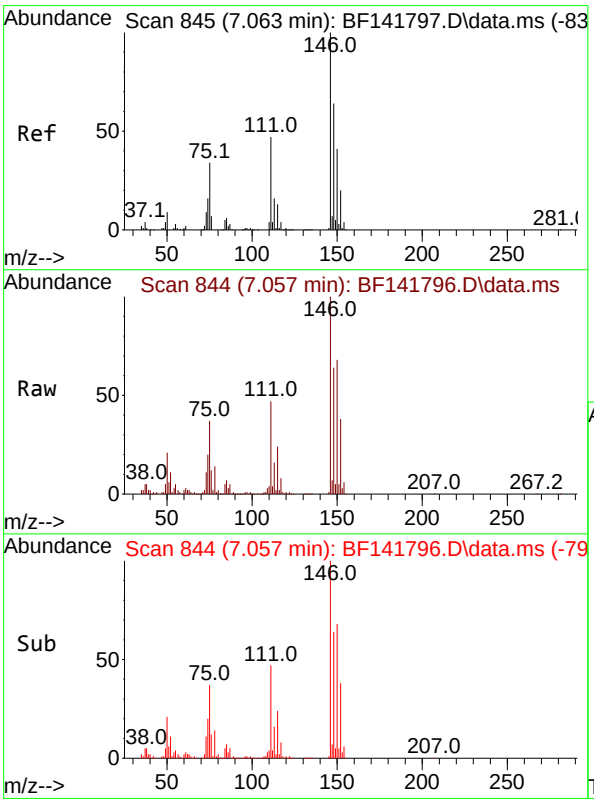
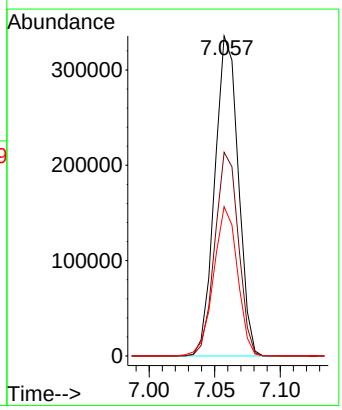
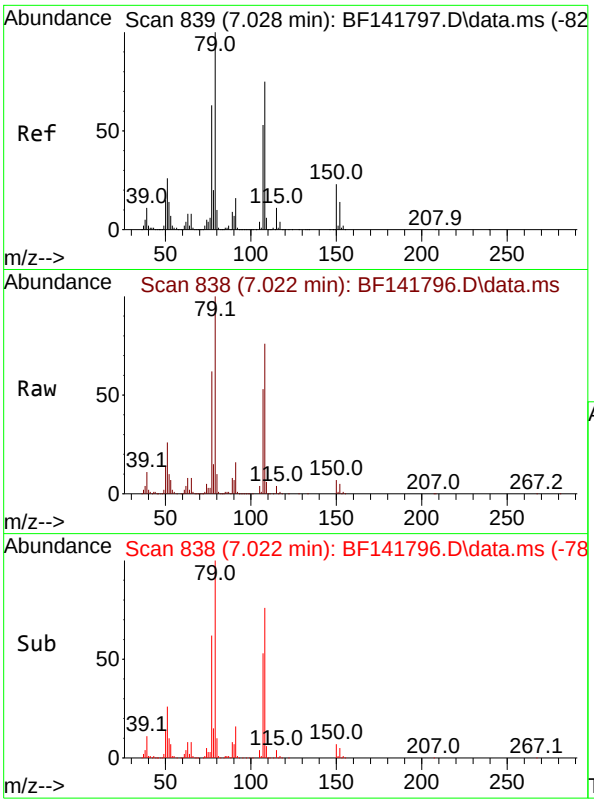


#14
1,2-Dichlorobenzene
Concen: 21.620 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:146 Resp: 416995

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.2	76.8
111	46.6	37.8	56.6

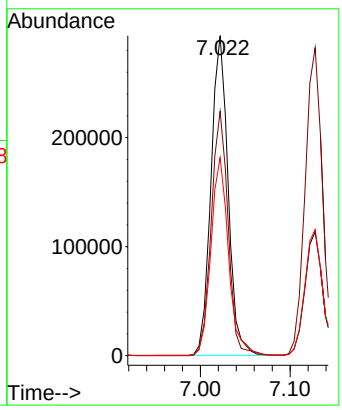




#15
Benzyl Alcohol
Concen: 21.089 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 79 Resp: 38817

Ion	Ratio	Lower	Upper
79	100		
108	76.3	60.2	90.2
77	61.9	50.2	75.2



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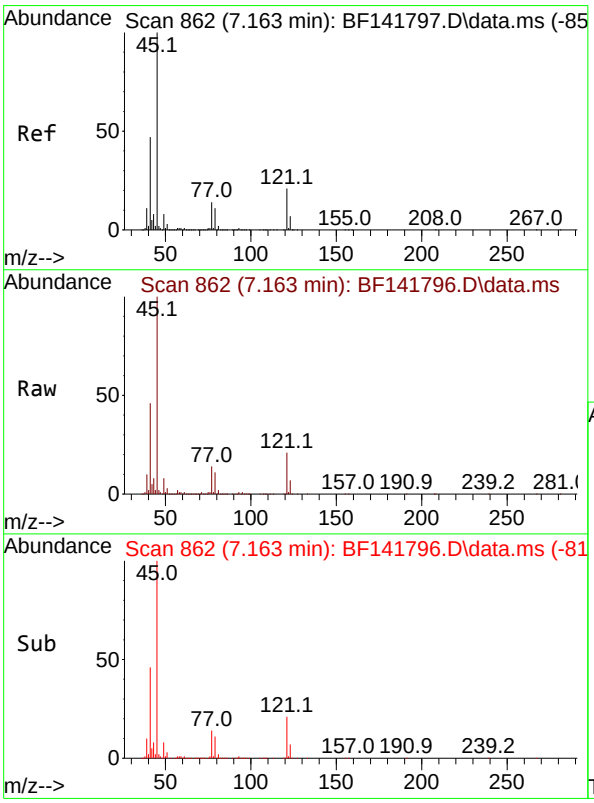
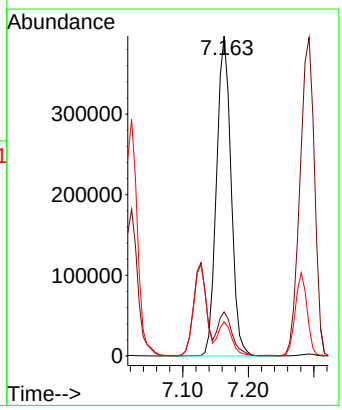
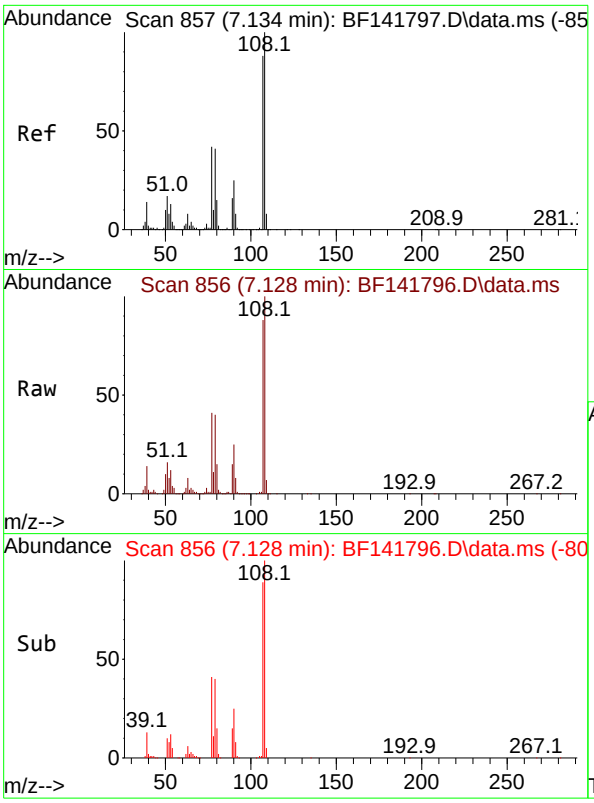


#16
2,2'-oxybis(1-Chloropropane)
Concen: 21.316 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 45 Resp: 607289

Ion	Ratio	Lower	Upper
45	100		
77	13.8	0.0	34.4
79	10.7	0.0	30.9

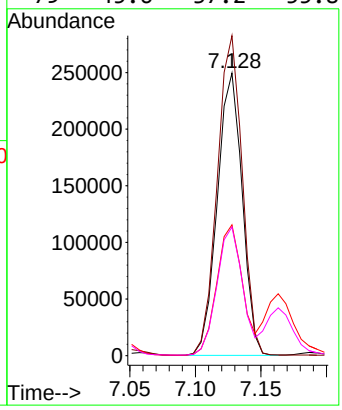




#17
2-Methylphenol
Concen: 20.839 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:107 Resp: 32926

Ion	Ratio	Lower	Upper
107	100		
108	113.3	90.6	135.8
77	46.4	37.7	56.5
79	45.6	37.2	55.8



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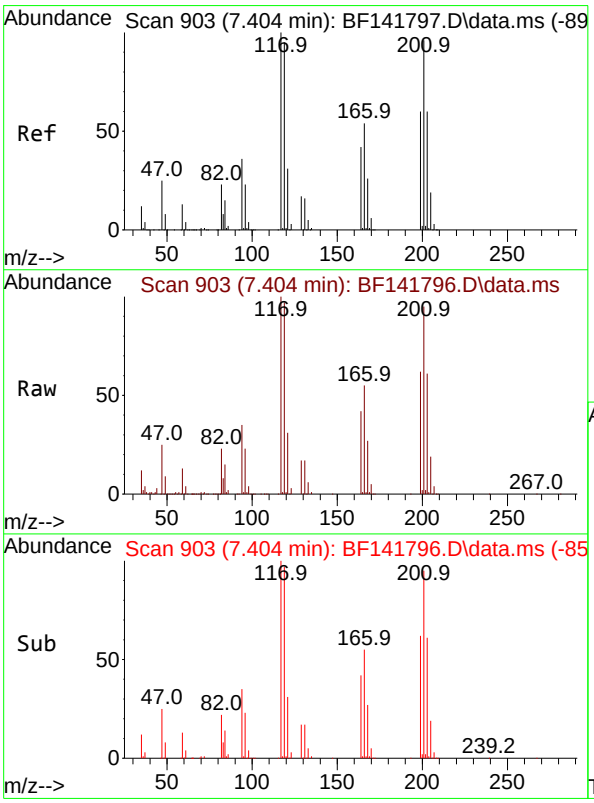
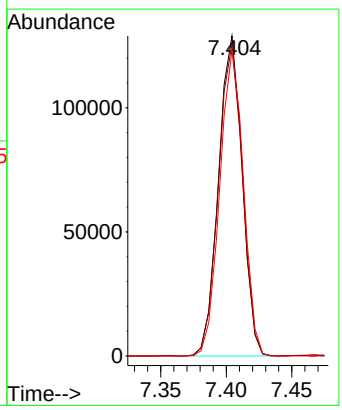
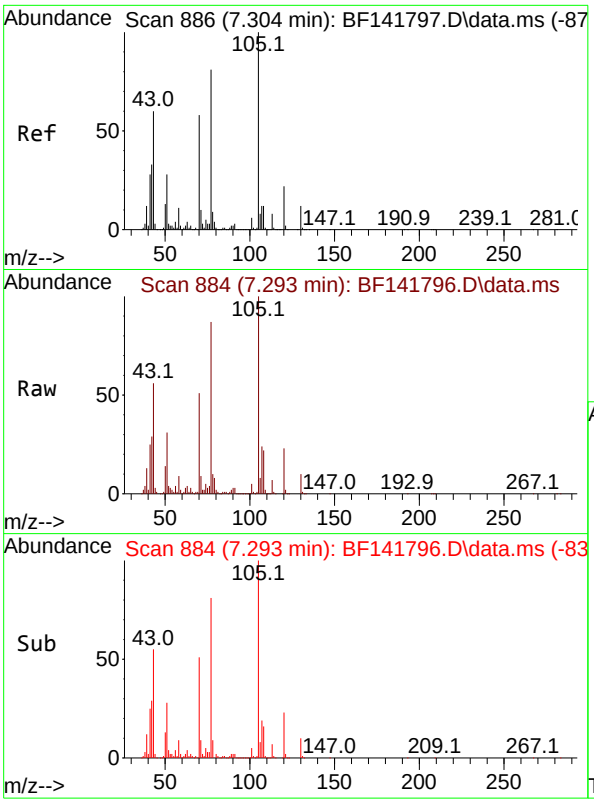


#18
Hexachloroethane
Concen: 21.002 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:117 Resp: 162363

Ion	Ratio	Lower	Upper
117	100		
119	97.5	75.8	113.8
201	95.4	76.7	115.1

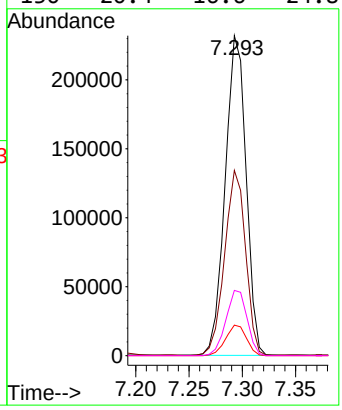




#19
n-Nitroso-di-n-propylamine
Concen: 20.904 ng
RT: 7.293 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 70 Resp: 31648

Ion	Ratio	Lower	Upper
70	100		
42	57.9	45.4	68.0
101	9.6	7.8	11.8
130	20.4	16.6	24.8



Instrument :
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ClientSampleId :
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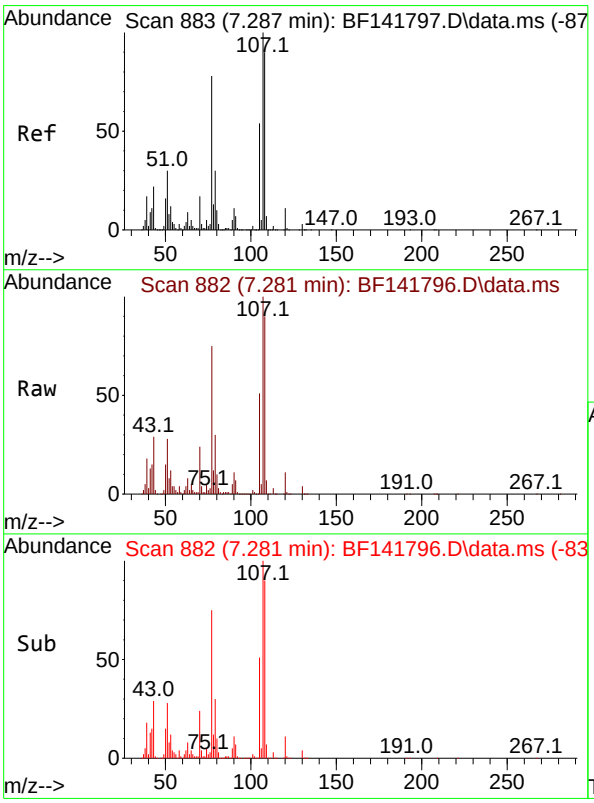
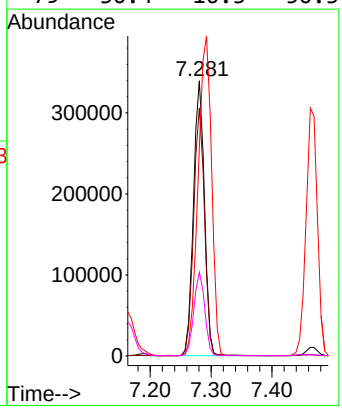
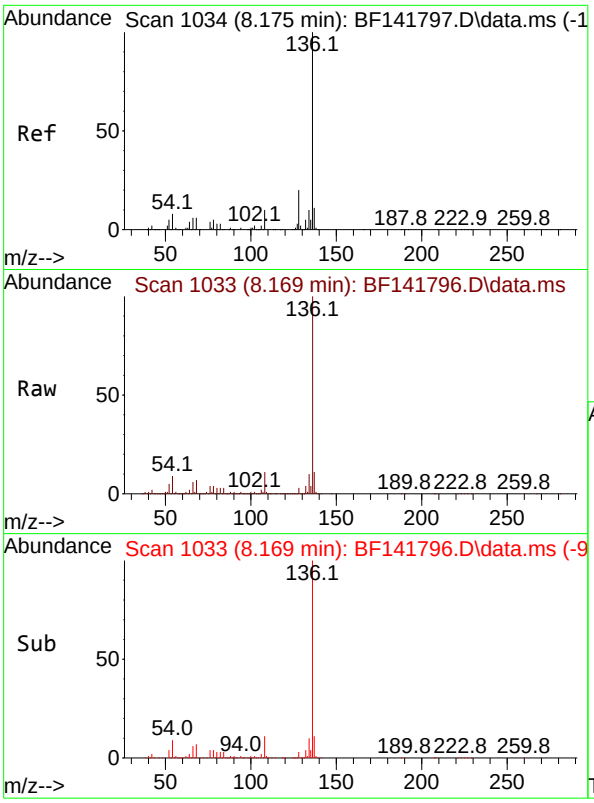


#20
3+4-Methylphenols
Concen: 21.633 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:107 Resp: 425612

Ion	Ratio	Lower	Upper
107	100		
108	90.1	69.7	109.7
77	75.5	58.3	98.3
79	30.4	10.3	50.3

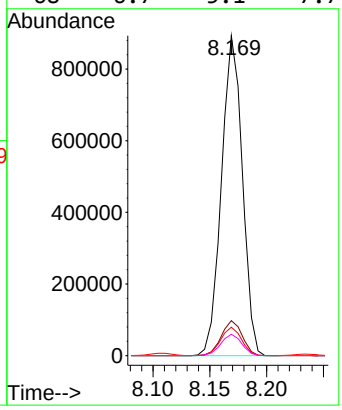




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:136 Resp: 114333

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	8.9	6.9	10.3
68	6.7	5.1	7.7



Instrument :
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ClientSampleId :
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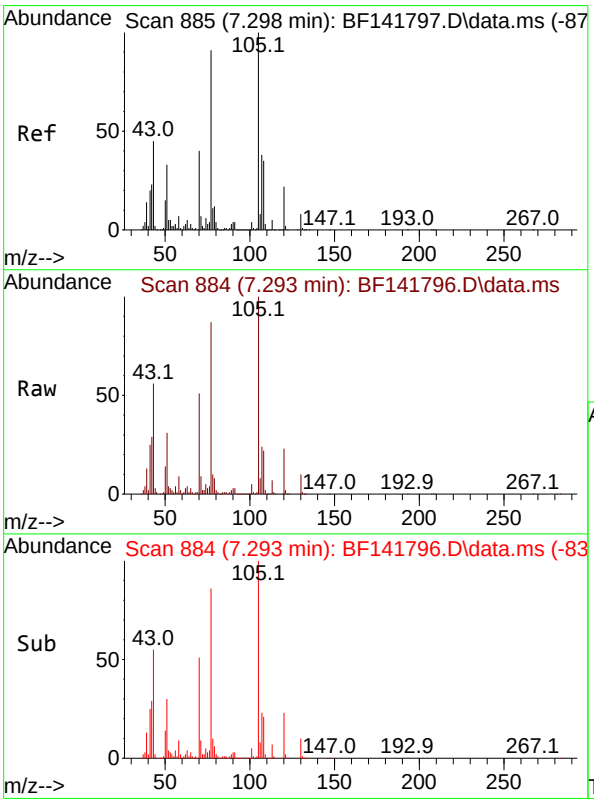
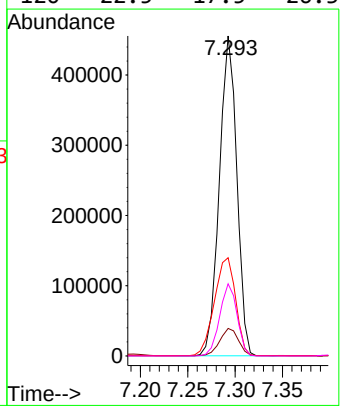
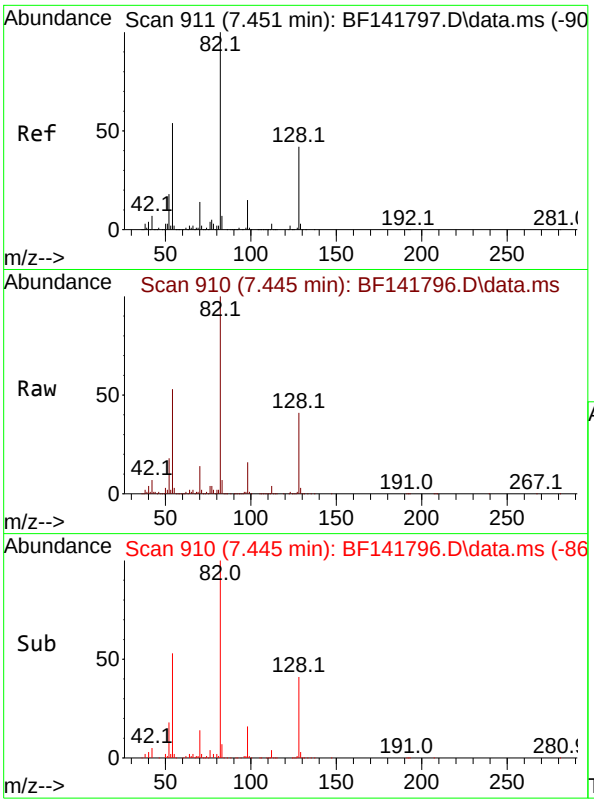


#22
Acetophenone
Concen: 21.041 ng
RT: 7.293 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:105 Resp: 585913

Ion	Ratio	Lower	Upper
105	100		
71	8.6	5.4	8.0#
51	30.7	26.1	39.1
120	22.5	17.5	26.3





#23
Nitrobenzene-d5
Concen: 40.590 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 82 Resp: 72603

Ion	Ratio	Lower	Upper
82	100		
128	40.7	33.5	50.3
54	53.3	42.7	64.1

Instrument :
BNA_F
ClientSampleId :
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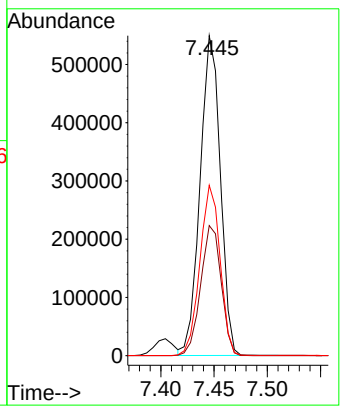
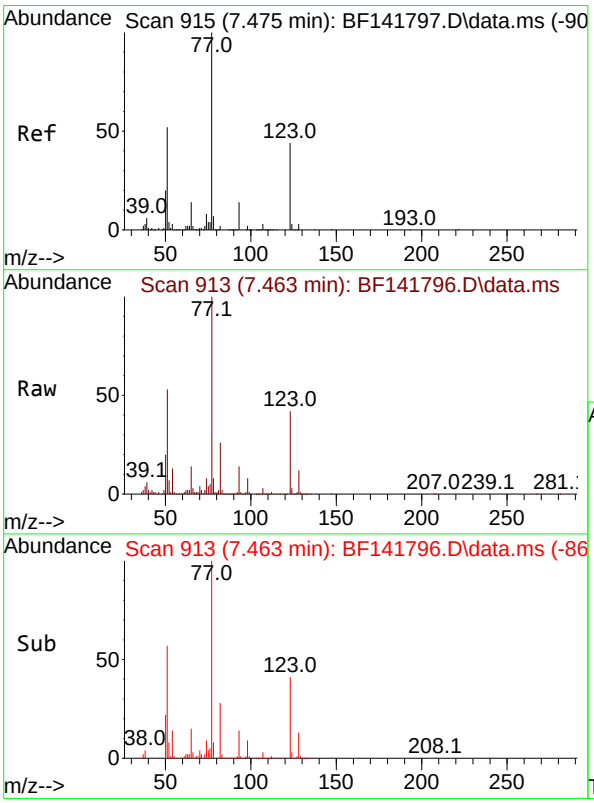
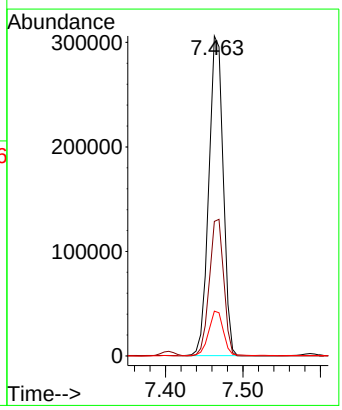


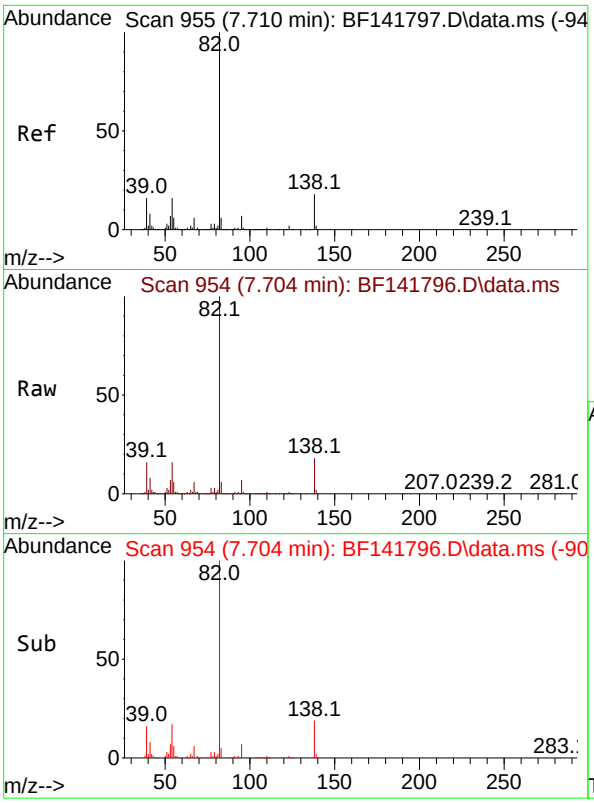


#24
Nitrobenzene
Concen: 20.649 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 77 Resp: 395521

Ion	Ratio	Lower	Upper
77	100		
123	42.1	35.8	53.8
65	14.0	11.2	16.8





#25
Isophorone
Concen: 20.541 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 82 Resp: 78934

Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.8
138	18.1	14.0	21.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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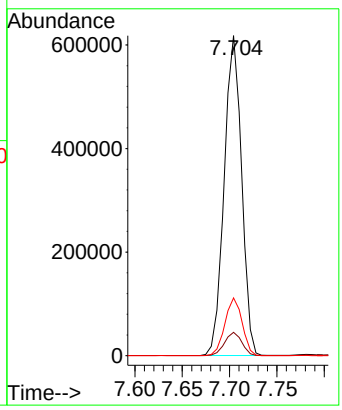
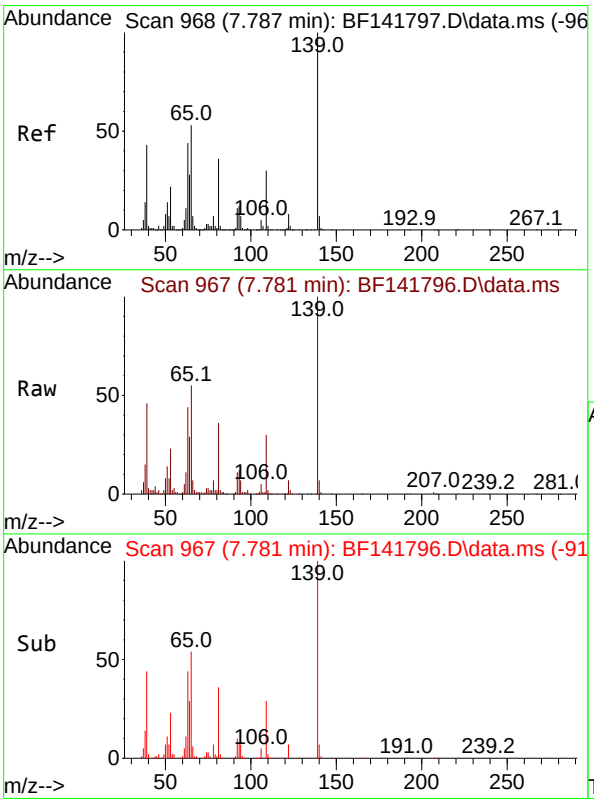
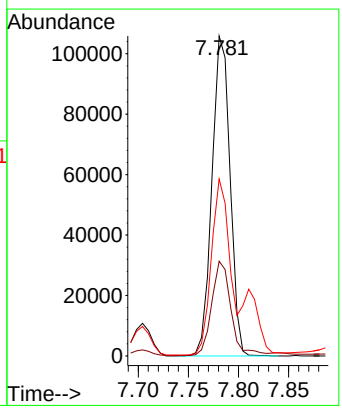


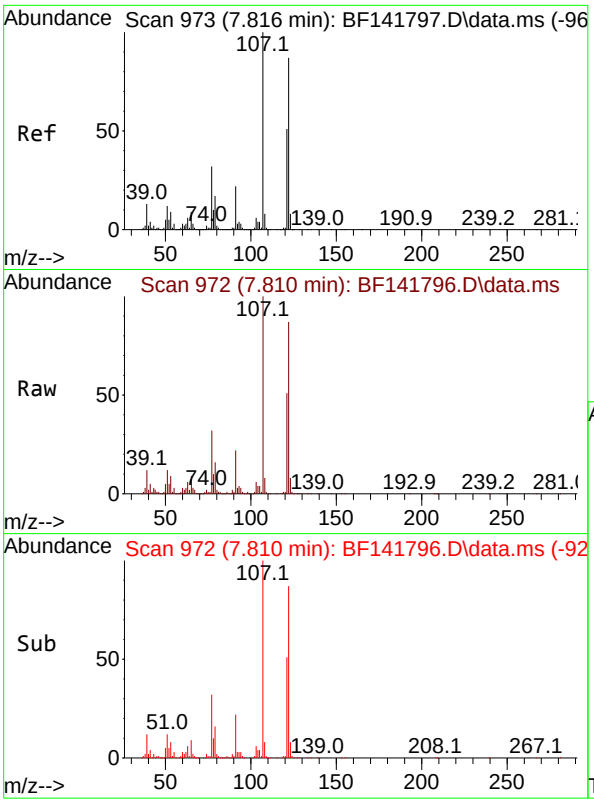


#26
2-Nitrophenol
Concen: 18.604 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:139 Resp: 132844

Ion	Ratio	Lower	Upper
139	100		
109	29.6	24.1	36.1
65	55.3	42.3	63.5

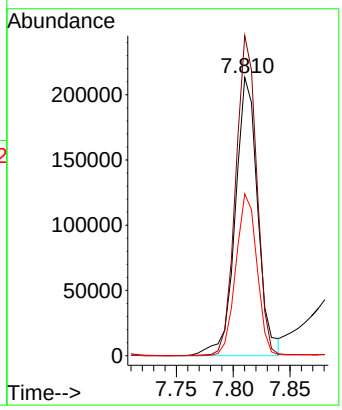




#27
2,4-Dimethylphenol
Concen: 20.740 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:122 Resp: 29296

Ion	Ratio	Lower	Upper
122	100		
107	115.0	92.5	138.7
121	58.1	47.1	70.7



Instrument :
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ClientSampleId :
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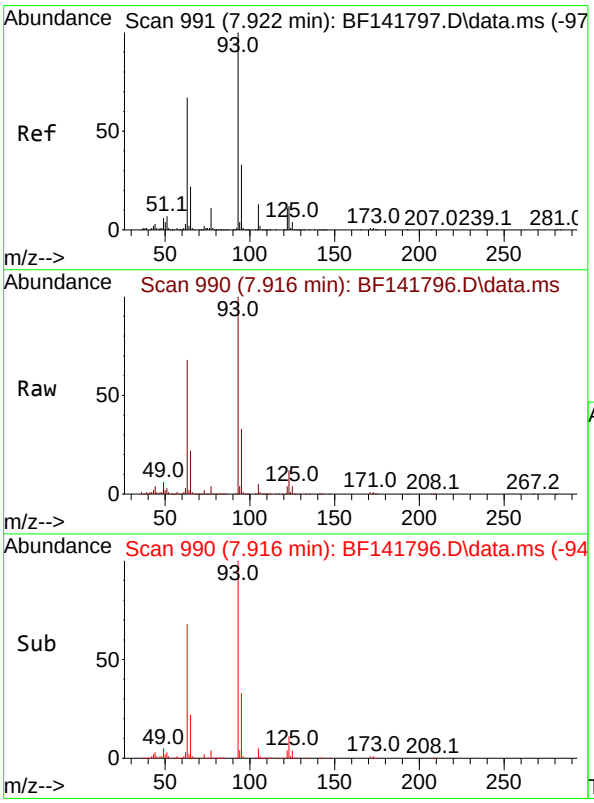
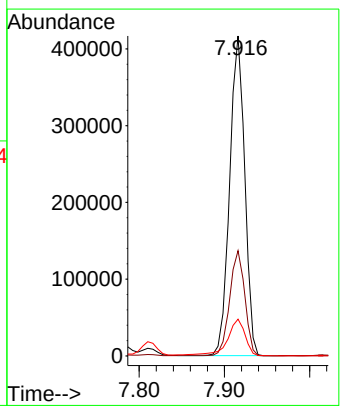
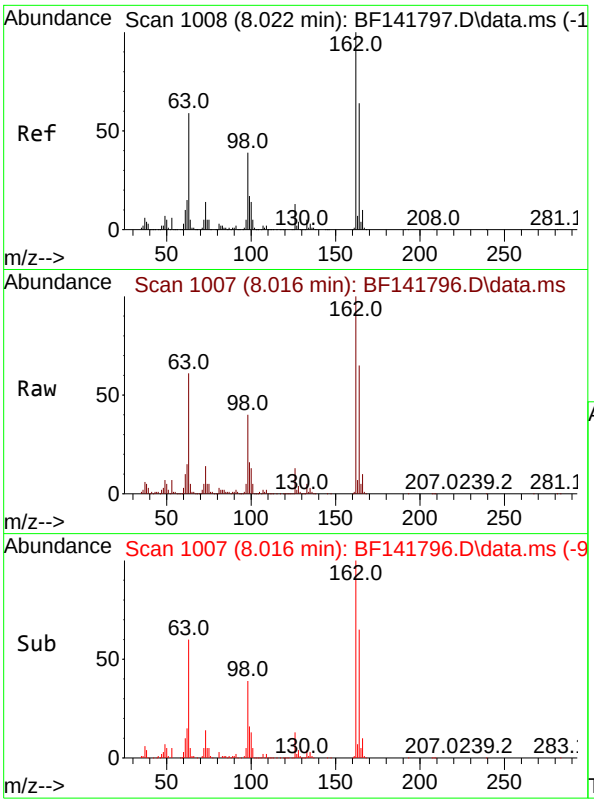


#28
bis(2-Chloroethoxy)methane
Concen: 20.966 ng
RT: 7.916 min Scan# 990
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 93 Resp: 513944

Ion	Ratio	Lower	Upper
93	100		
95	32.9	26.5	39.7
123	11.5	10.0	15.0

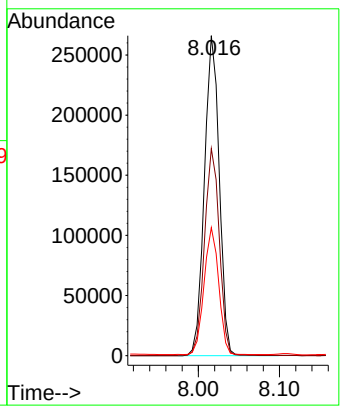




#29
2,4-Dichlorophenol
Concen: 20.749 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:162 Resp: 33812

Ion	Ratio	Lower	Upper
162	100		
164	64.7	44.3	84.3
98	40.0	19.6	59.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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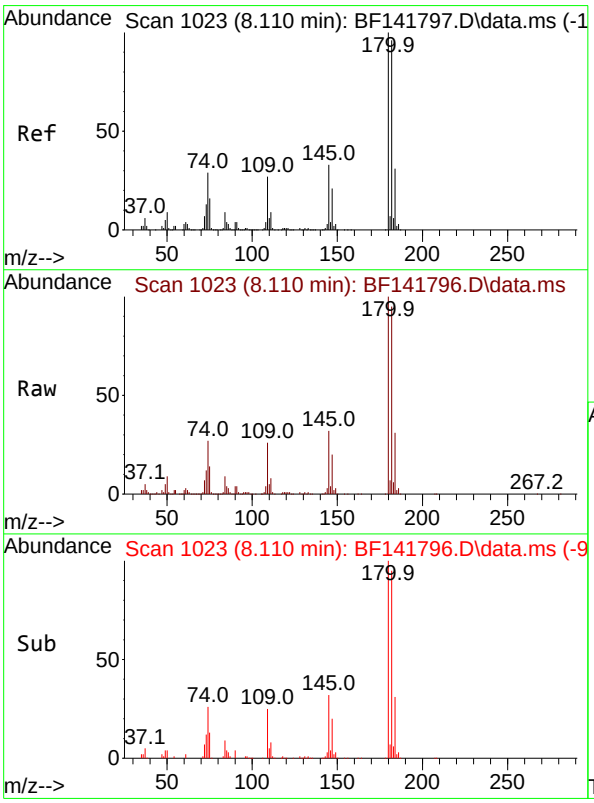
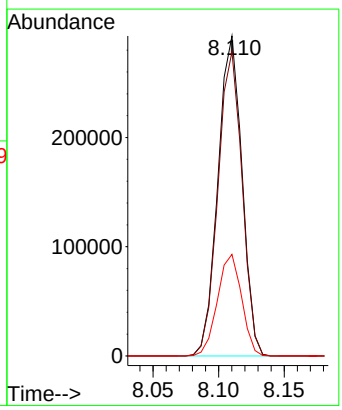
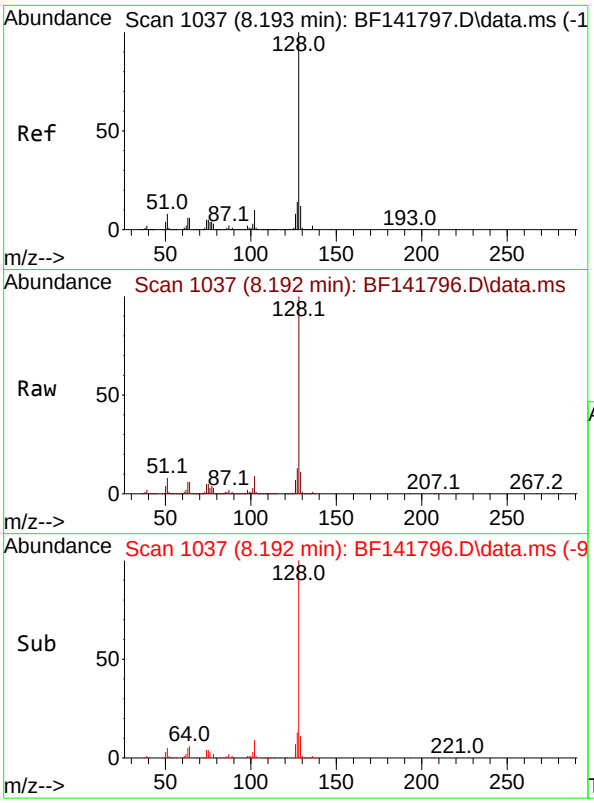


#30
1,2,4-Trichlorobenzene
Concen: 20.955 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:180 Resp: 374188

Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.8	115.2
145	31.8	26.4	39.6

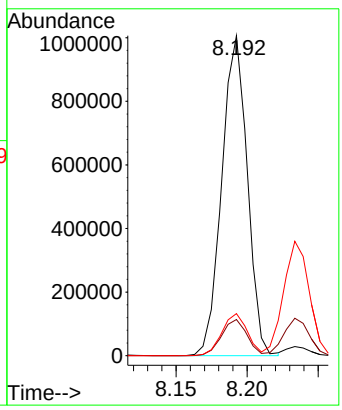




#31
Naphthalene
Concen: 21.409 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:128 Resp: 125808

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.2	13.8
127	13.2	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
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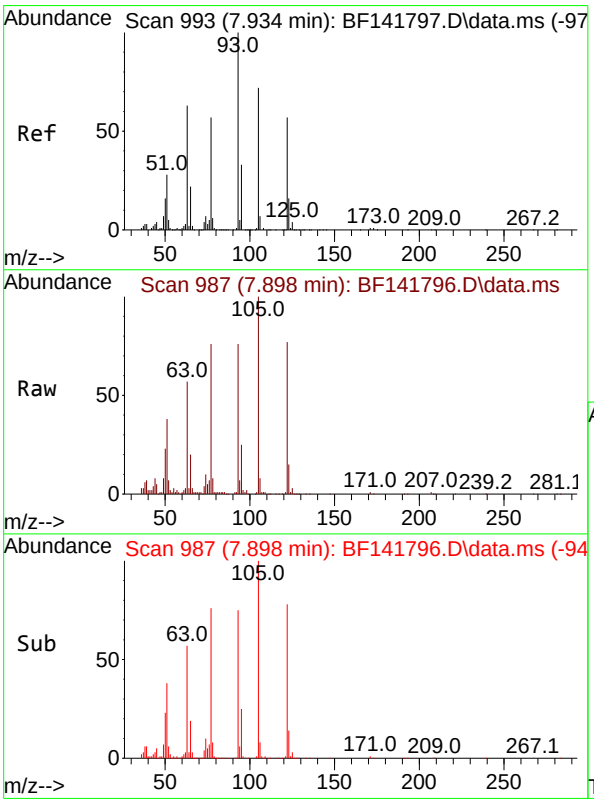
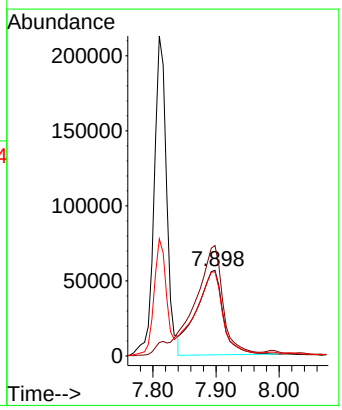
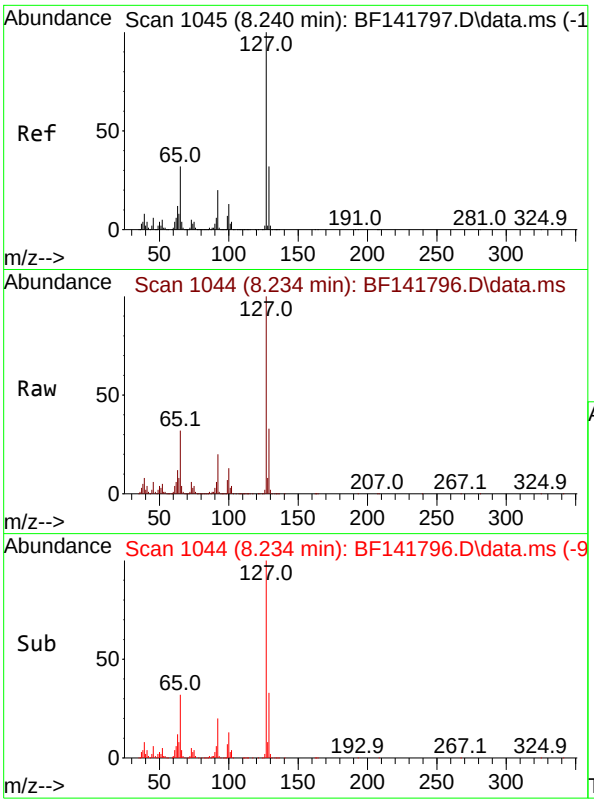


#32
Benzoic acid
Concen: 19.487 ng
RT: 7.898 min Scan# 987
Delta R.T. -0.036 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:122 Resp: 165613

Ion	Ratio	Lower	Upper
122	100		
105	129.2	105.8	145.8
77	98.4	79.9	119.9

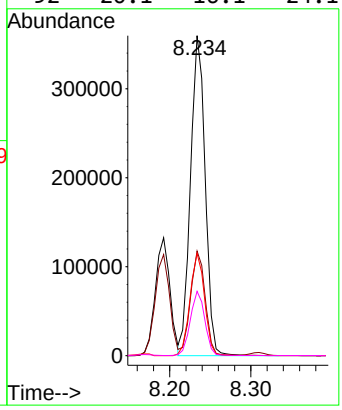




#33
4-Chloroaniline
Concen: 21.097 ng
RT: 8.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:127 Resp: 45456

Ion	Ratio	Lower	Upper
127	100		
129	32.7	26.1	39.1
65	32.0	25.7	38.5
92	20.1	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
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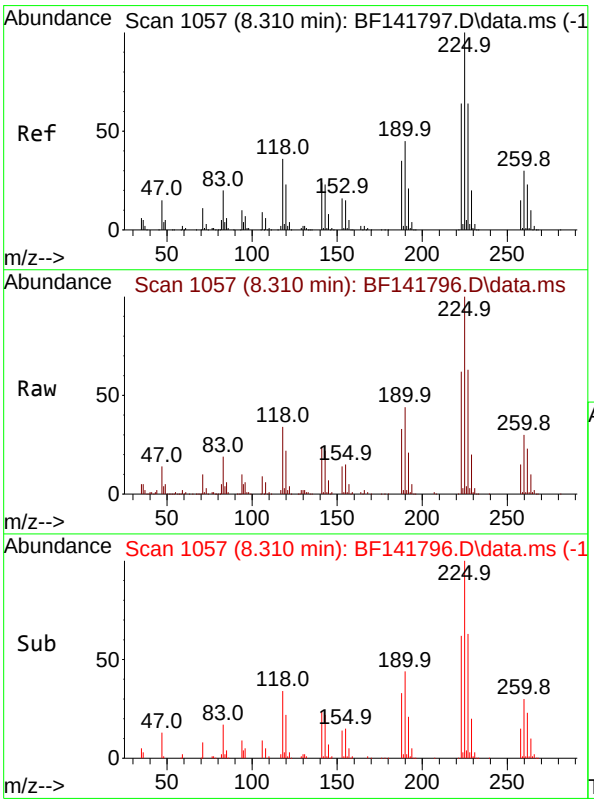
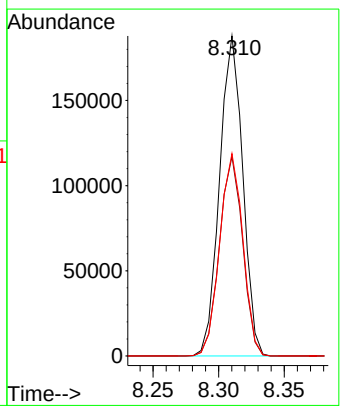
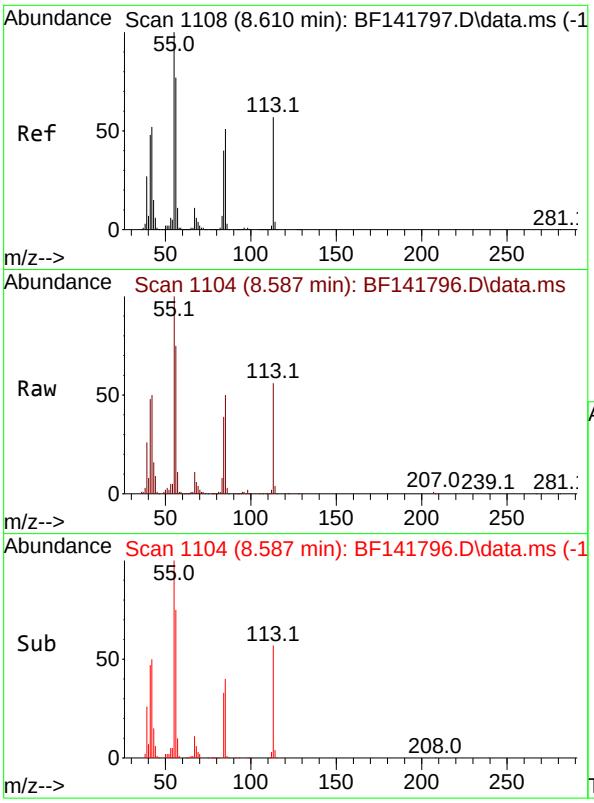


#34
Hexachlorobutadiene
Concen: 20.776 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:225 Resp: 230541

Ion	Ratio	Lower	Upper
225	100		
223	62.3	51.4	77.2
227	63.2	51.6	77.4

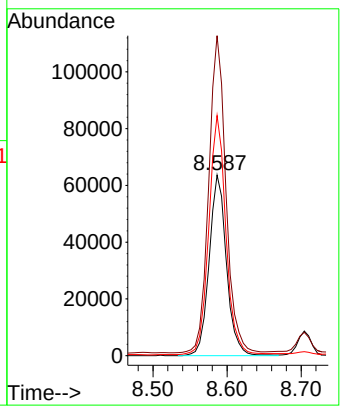




#35
Caprolactam
Concen: 20.521 ng
RT: 8.587 min Scan# 11
Delta R.T. -0.024 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:113 Resp: 10289

Ion	Ratio	Lower	Upper
113	100		
55	177.2	155.6	195.6
56	132.9	114.6	154.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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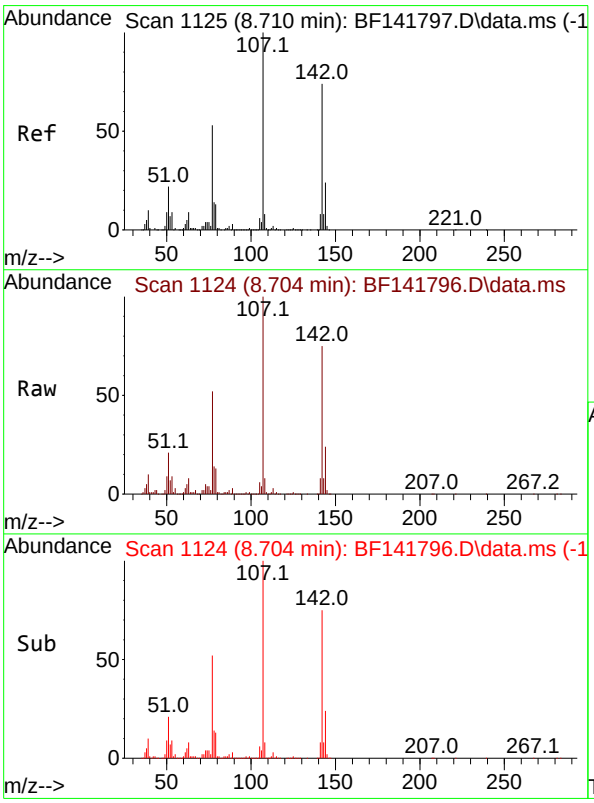
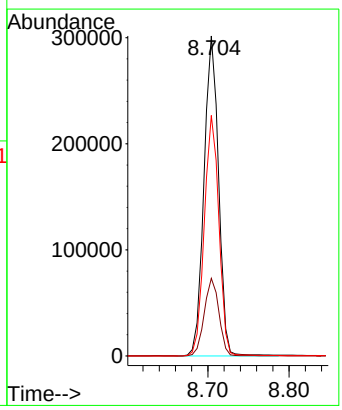
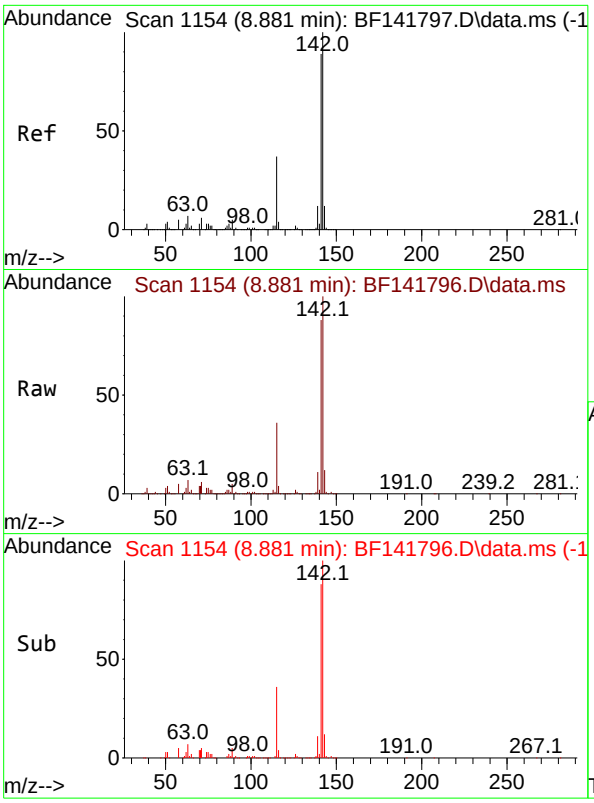


#36
4-Chloro-3-methylphenol
Concen: 20.776 ng
RT: 8.704 min Scan# 1124
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:107 Resp: 376094

Ion	Ratio	Lower	Upper
107	100		
144	24.3	19.4	29.0
142	75.1	59.4	89.0

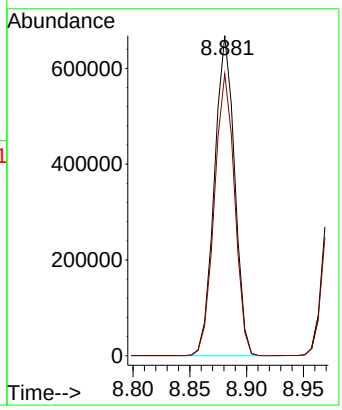




#37
2-Methylnaphthalene
Concen: 21.443 ng
RT: 8.881 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:142 Resp: 82649

Ion	Ratio	Lower	Upper
142	100		
141	88.1	71.1	106.7



Instrument :
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ClientSampleId :
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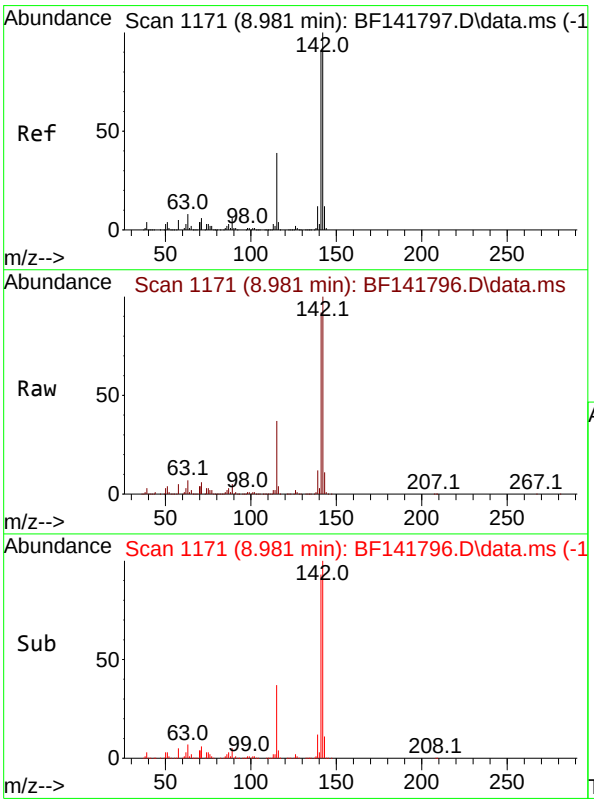
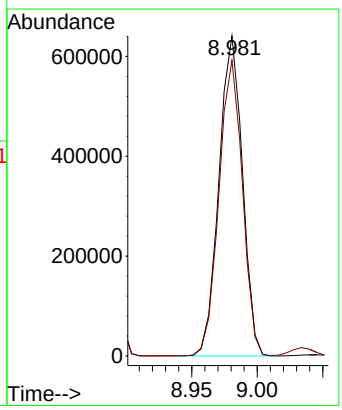
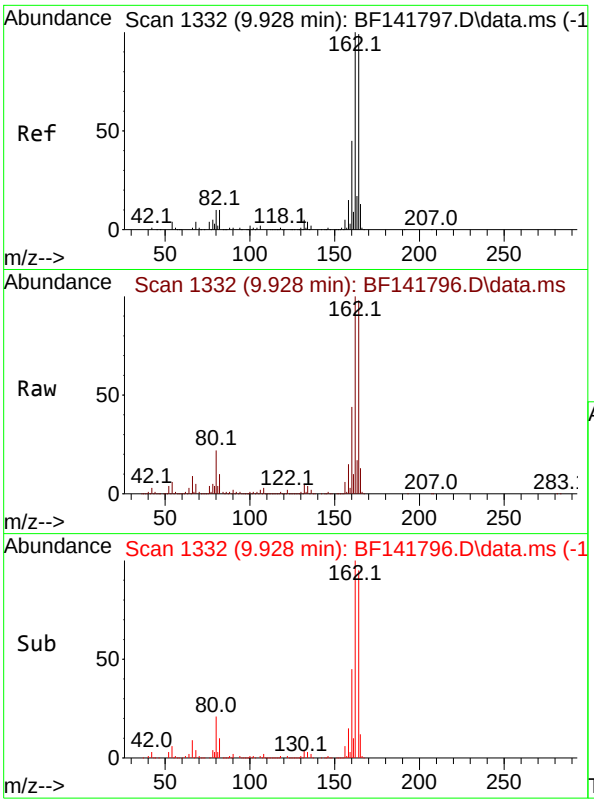


#38
1-Methylnaphthalene
Concen: 21.545 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:142 Resp: 796808

Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.1	109.7

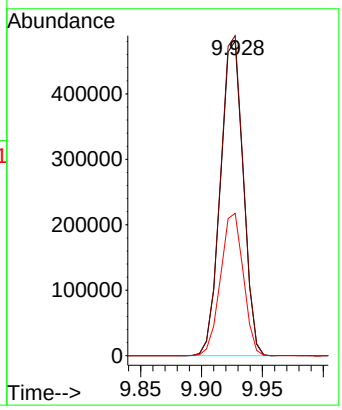




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:164 Resp: 62633

Ion	Ratio	Lower	Upper
164	100		
162	101.7	80.6	120.8
160	45.3	36.3	54.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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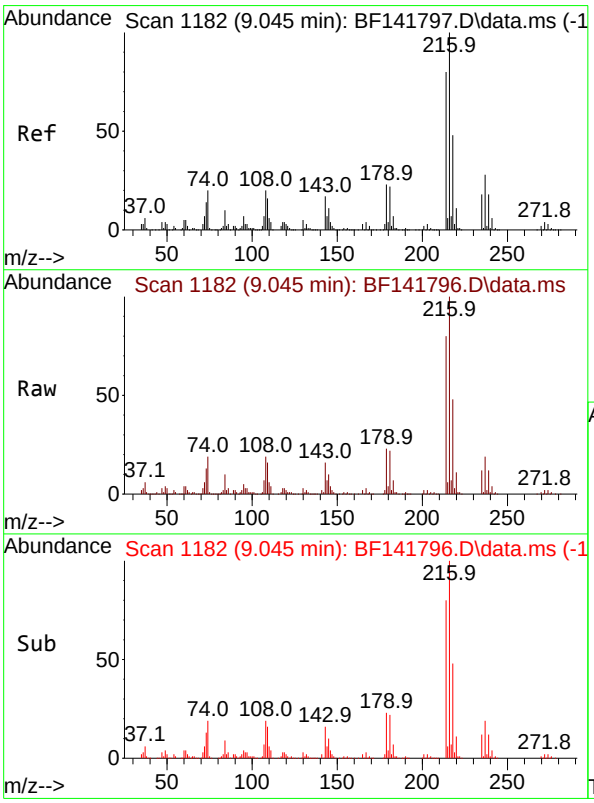
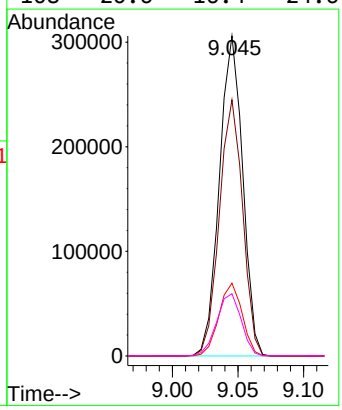
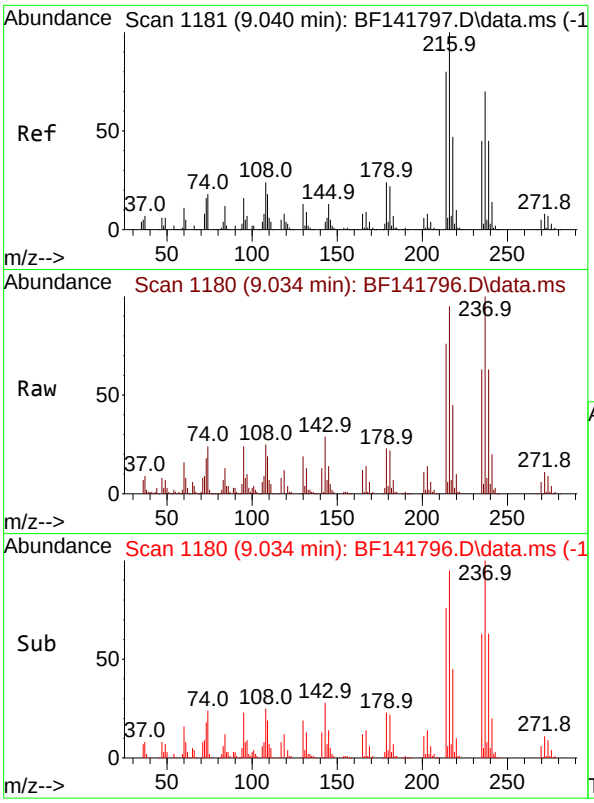


#40
1,2,4,5-Tetrachlorobenzene
Concen: 20.861 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:216 Resp: 377360

Ion	Ratio	Lower	Upper
216	100		
214	80.0	63.5	95.3
179	22.8	18.1	27.1
108	20.6	16.4	24.6





#41
Hexachlorocyclopentadiene
Concen: 20.943 ng
RT: 9.034 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:237 Resp: 15810

Ion	Ratio	Lower	Upper
237	100		
235	62.7	43.3	83.3
272	11.4	0.0	31.9

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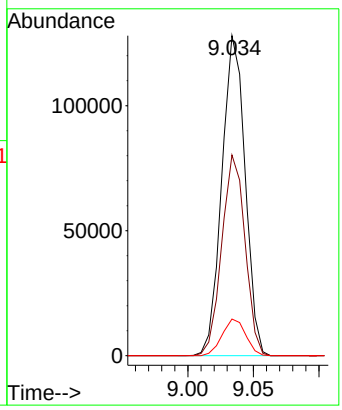
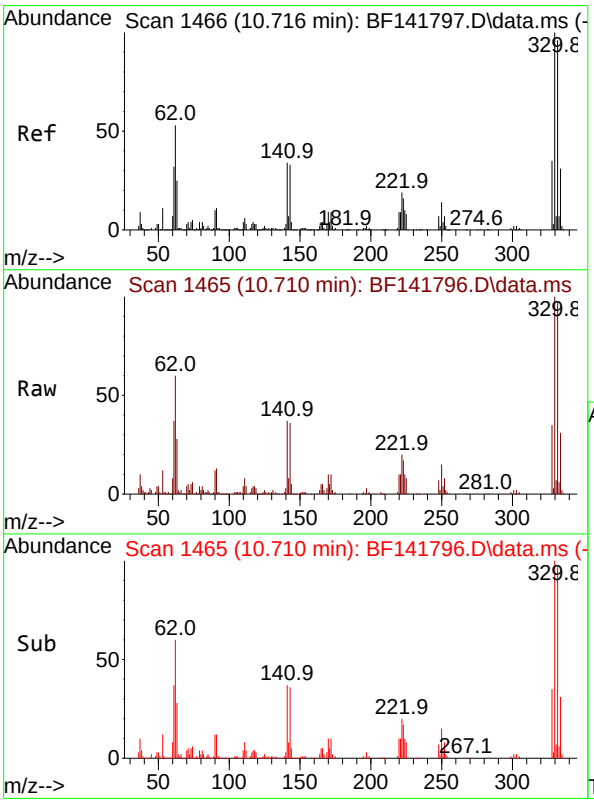
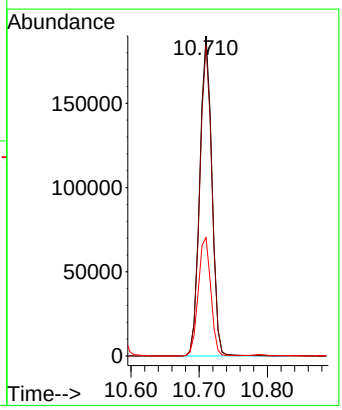


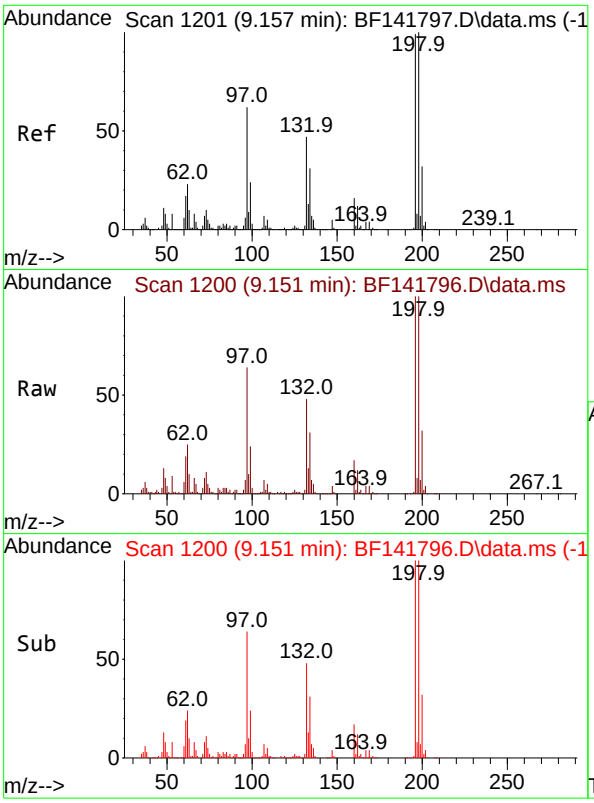


#42
2,4,6-Tribromophenol
Concen: 39.990 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:330 Resp: 235147

Ion	Ratio	Lower	Upper
330	100		
332	97.3	76.6	115.0
141	38.3	29.0	43.4

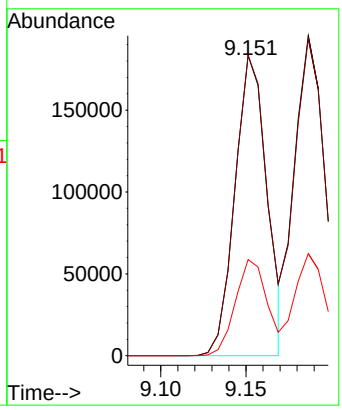




#43
2,4,6-Trichlorophenol
Concen: 20.419 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:196 Resp: 23859

Ion	Ratio	Lower	Upper
196	100		
198	100.1	80.4	120.6
200	32.0	25.7	38.5



Instrument :
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ClientSampleId :
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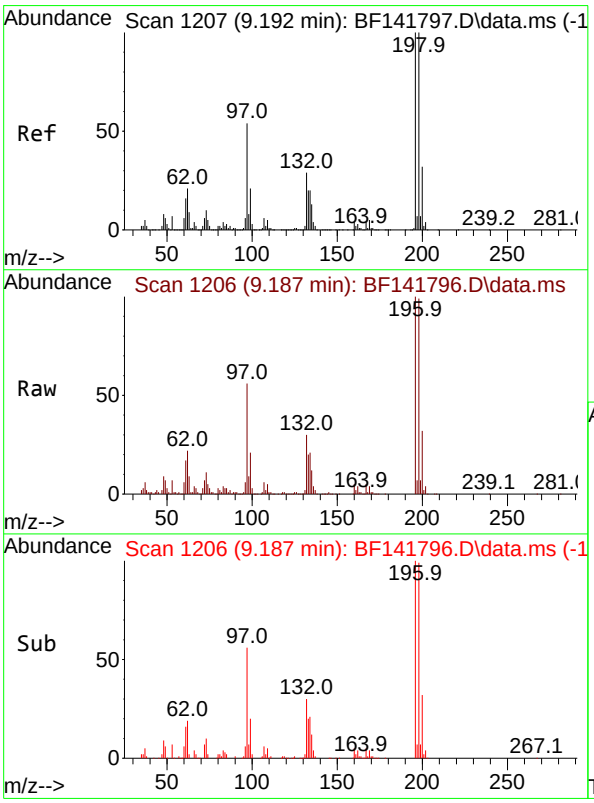
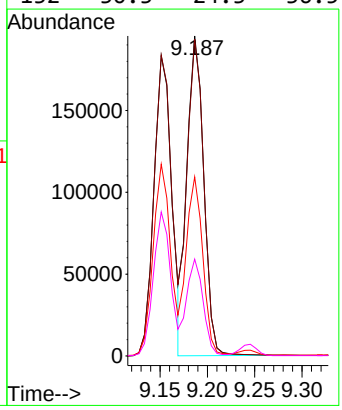
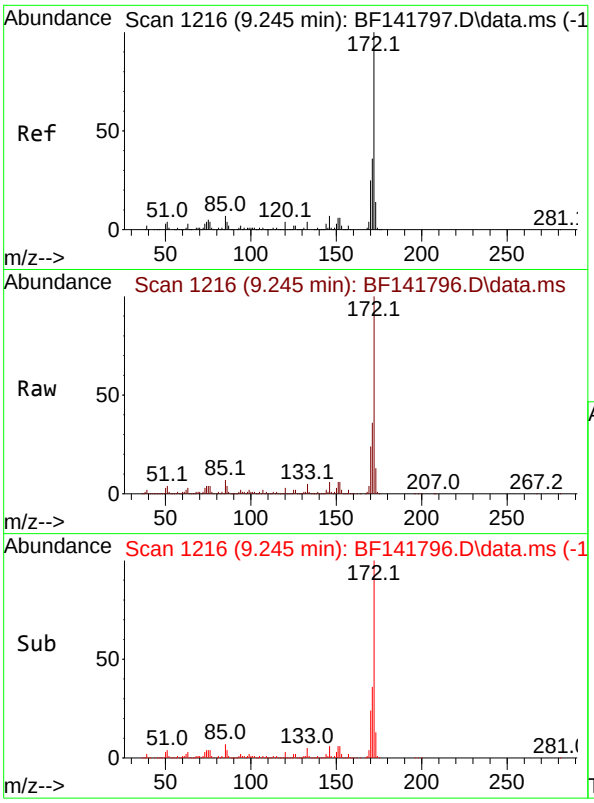


#44
2,4,5-Trichlorophenol
Concen: 20.976 ng
RT: 9.187 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:196 Resp: 242709

Ion	Ratio	Lower	Upper
196	100		
198	99.1	79.7	119.5
97	55.9	44.2	66.2
132	30.3	24.3	36.5

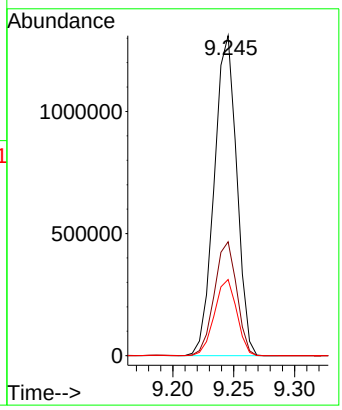




#45
2-Fluorobiphenyl
Concen: 43.170 ng
RT: 9.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:172 Resp: 168631

Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.2	43.8
170	23.8	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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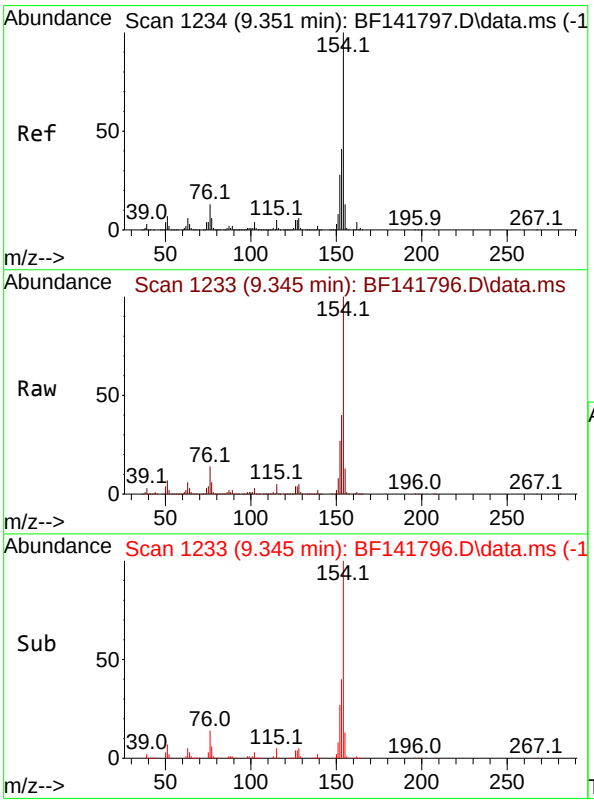
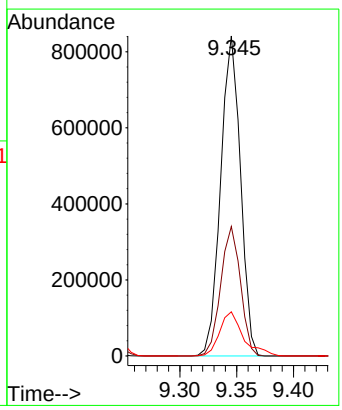
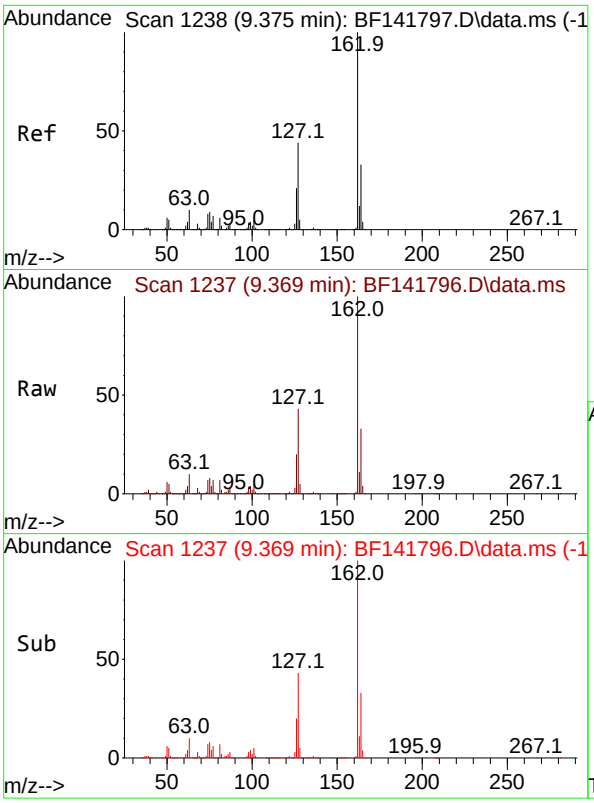


#46
1,1'-Biphenyl
Concen: 21.418 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:154 Resp: 1021081

Ion	Ratio	Lower	Upper
154	100		
153	40.4	21.4	61.4
76	13.8	0.0	33.4

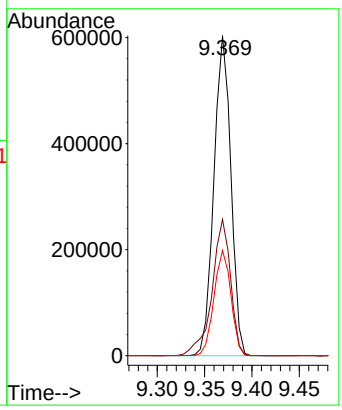




#47
2-Chloronaphthalene
Concen: 21.375 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:162 Resp: 75214

Ion	Ratio	Lower	Upper
162	100		
127	42.5	35.0	52.6
164	32.9	26.6	40.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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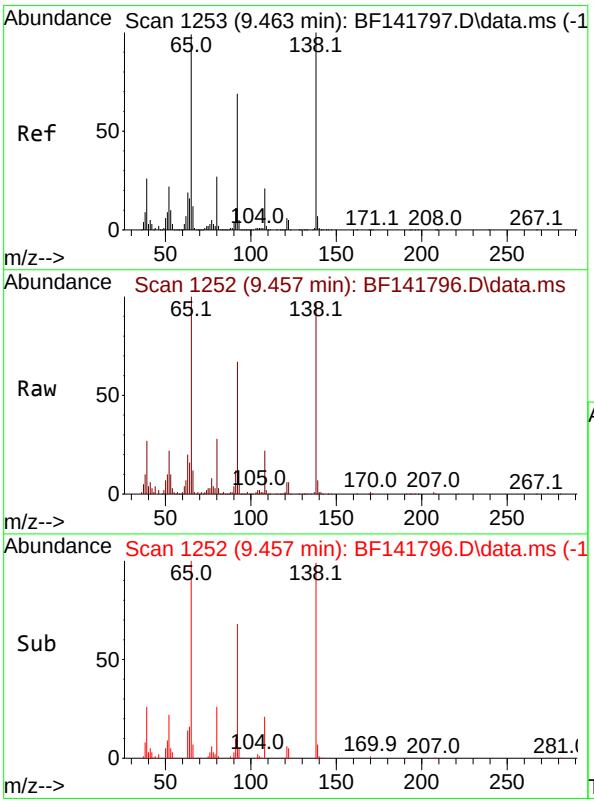
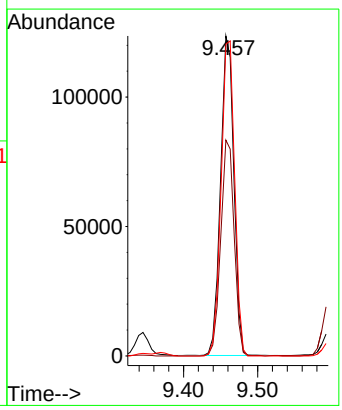
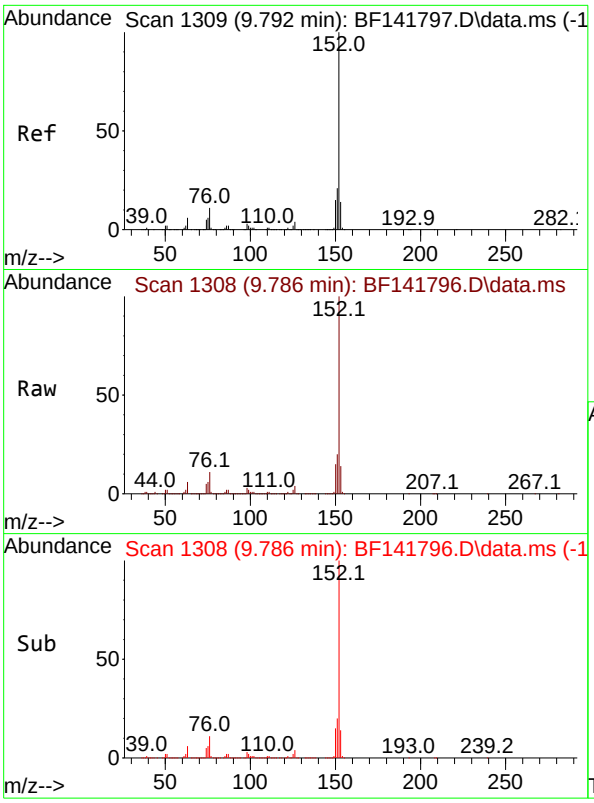


#48
2-Nitroaniline
Concen: 18.870 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 65 Resp: 153869

Ion	Ratio	Lower	Upper
65	100		
92	67.5	55.7	83.5
138	97.5	80.6	121.0

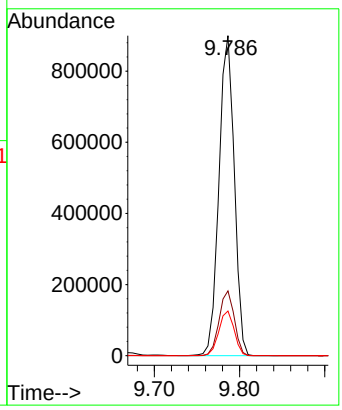




#49
Acenaphthylene
Concen: 21.349 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:152 Resp: 112630

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.6	24.8
153	13.9	11.2	16.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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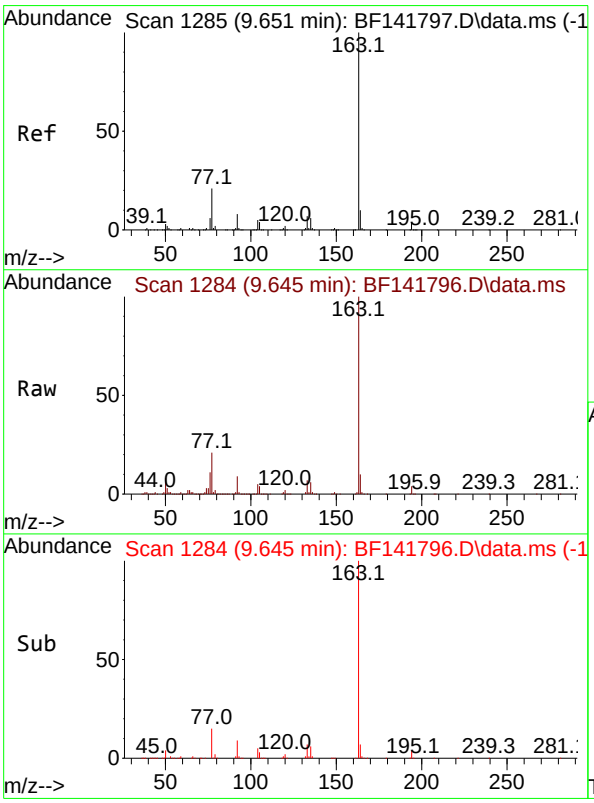
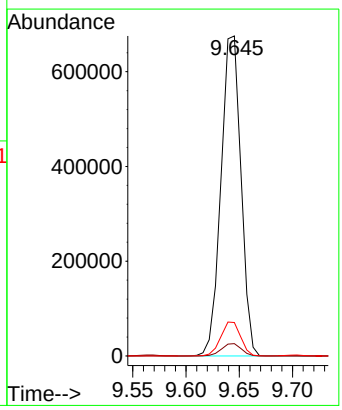
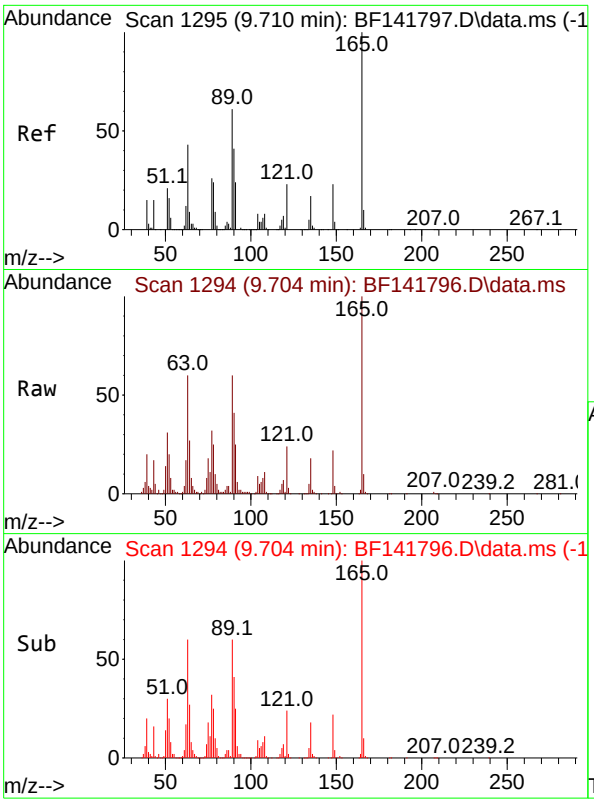


#50
Dimethylphthalate
Concen: 20.977 ng
RT: 9.645 min Scan# 1284
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:163 Resp: 879870

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.4	8.4	12.6





#51
2,6-Dinitrotoluene
Concen: 19.796 ng
RT: 9.704 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:165 Resp: 14467

Ion	Ratio	Lower	Upper
165	100		
63	59.9	49.5	74.3
89	59.8	49.0	73.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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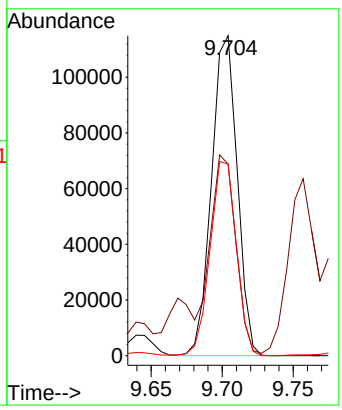
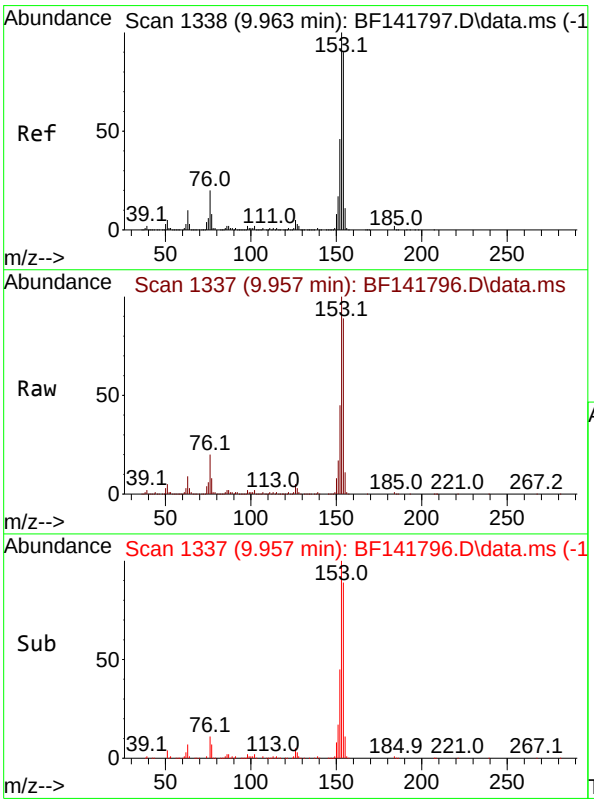
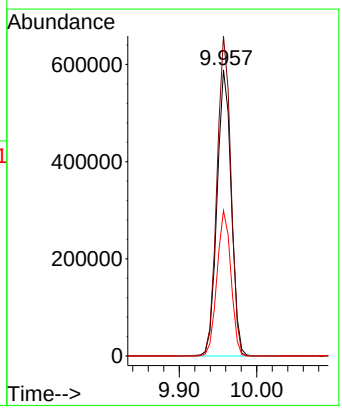


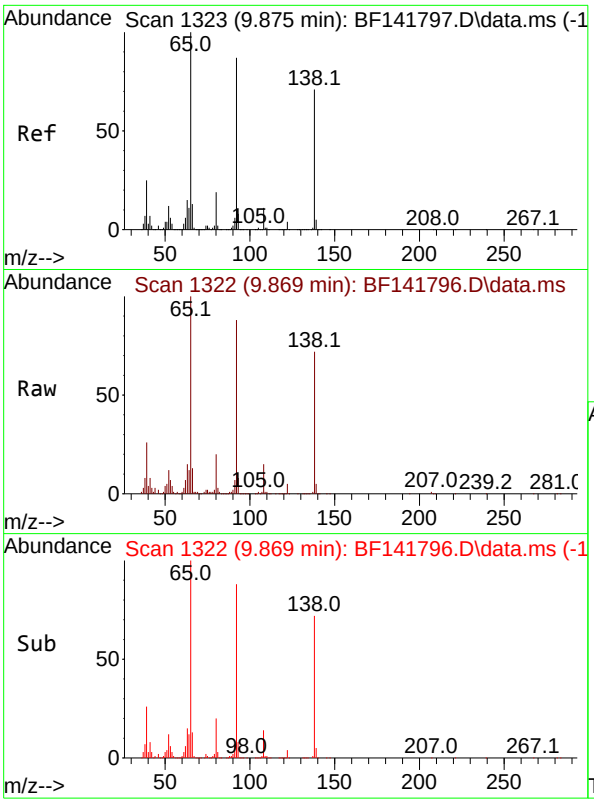


#52
Acenaphthene
Concen: 21.068 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:154 Resp: 749963

Ion	Ratio	Lower	Upper
154	100		
153	111.9	88.7	133.1
152	50.8	40.9	61.3





#53
3-Nitroaniline
Concen: 19.664 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:138 Resp: 15211

Ion	Ratio	Lower	Upper
138	100		
108	20.3	12.7	19.1#
92	122.3	97.9	146.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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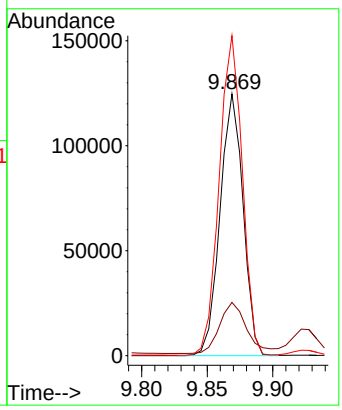
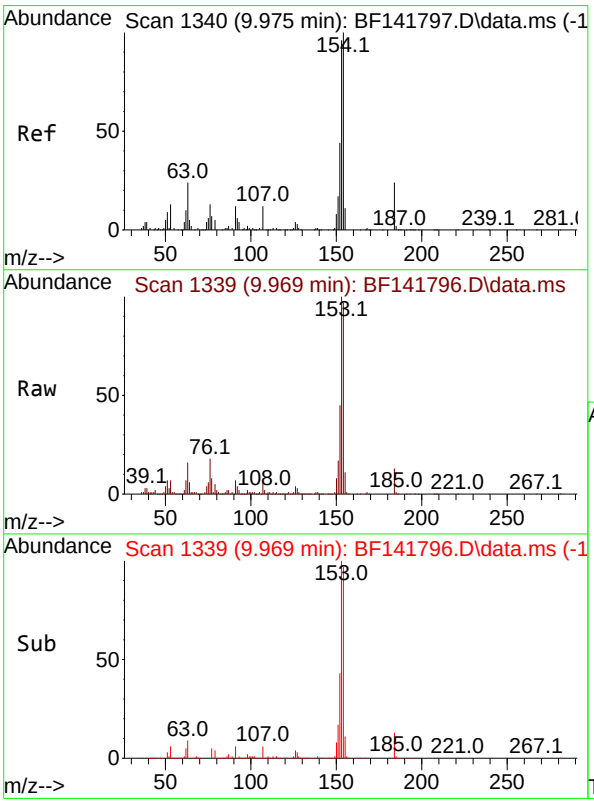
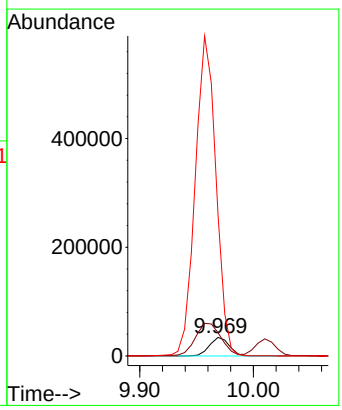


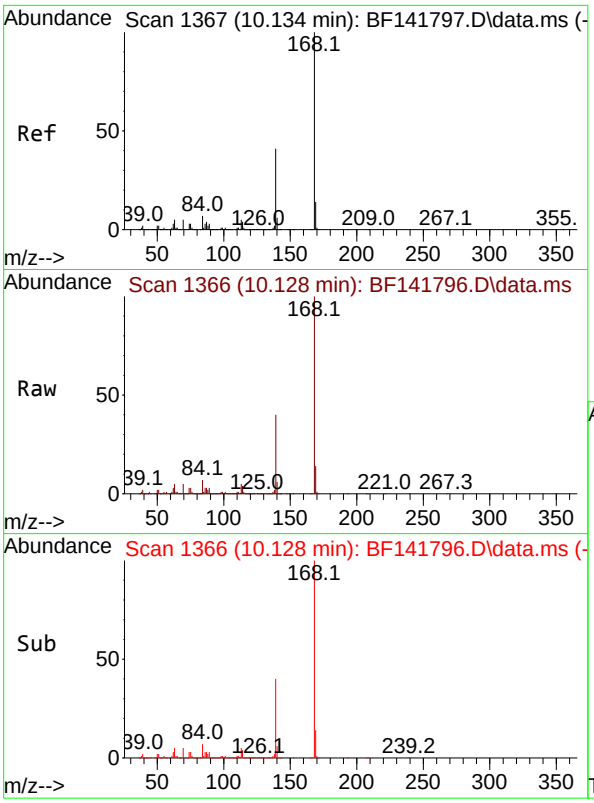


#54
2,4-Dinitrophenol
Concen: 19.116 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:184 Resp: 41521

Ion	Ratio	Lower	Upper
184	100		
63	125.2	79.0	118.6#
154	760.8	335.8	503.8#

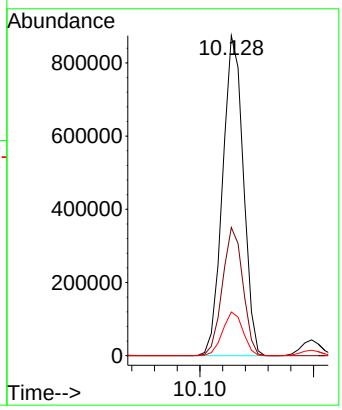




#55
Dibenzofuran
Concen: 21.332 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:168 Resp: 110527

Ion	Ratio	Lower	Upper
168	100		
139	40.1	32.9	49.3
169	13.6	11.1	16.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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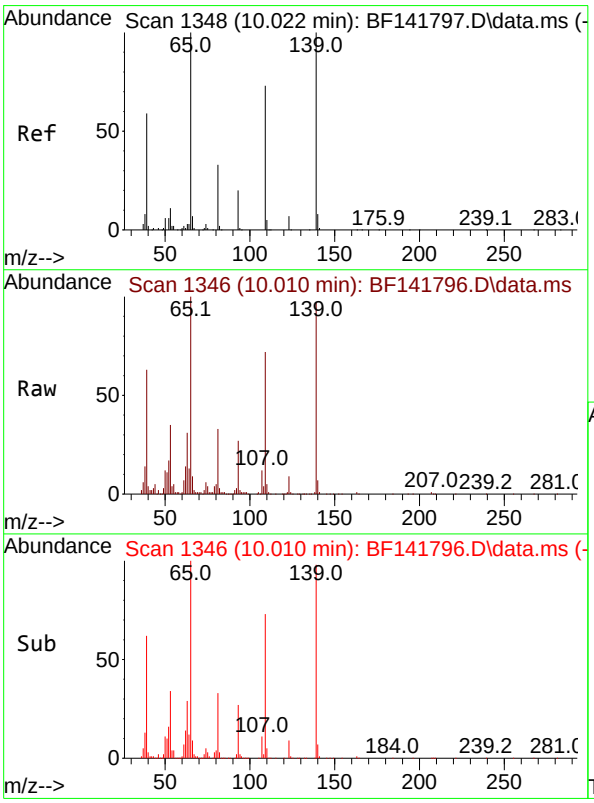
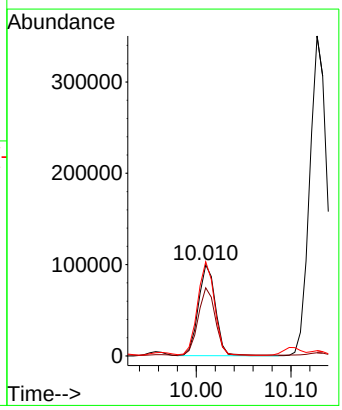
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

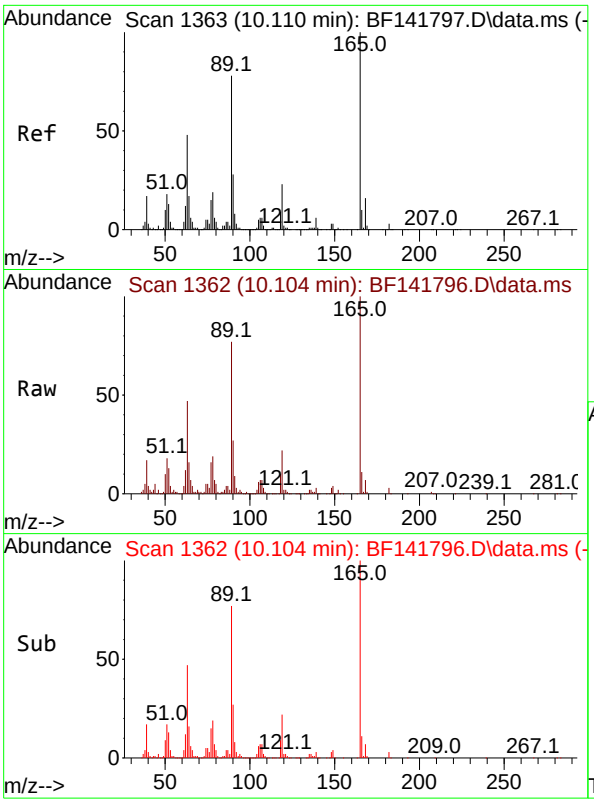


#56
4-Nitrophenol
Concen: 19.922 ng
RT: 10.010 min Scan# 1346
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:139 Resp: 123415

Ion	Ratio	Lower	Upper
139	100		
109	74.8	53.4	93.4
65	103.5	82.1	122.1

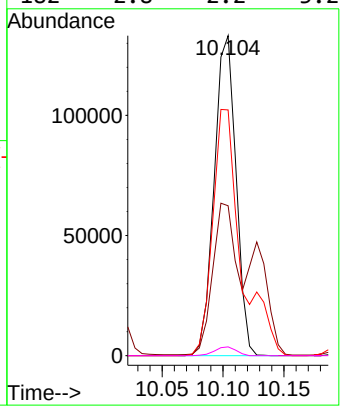




#57
2,4-Dinitrotoluene
Concen: 19.214 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:165 Resp: 16594

Ion	Ratio	Lower	Upper
165	100		
63	46.9	38.8	58.2
89	76.8	62.6	94.0
182	2.8	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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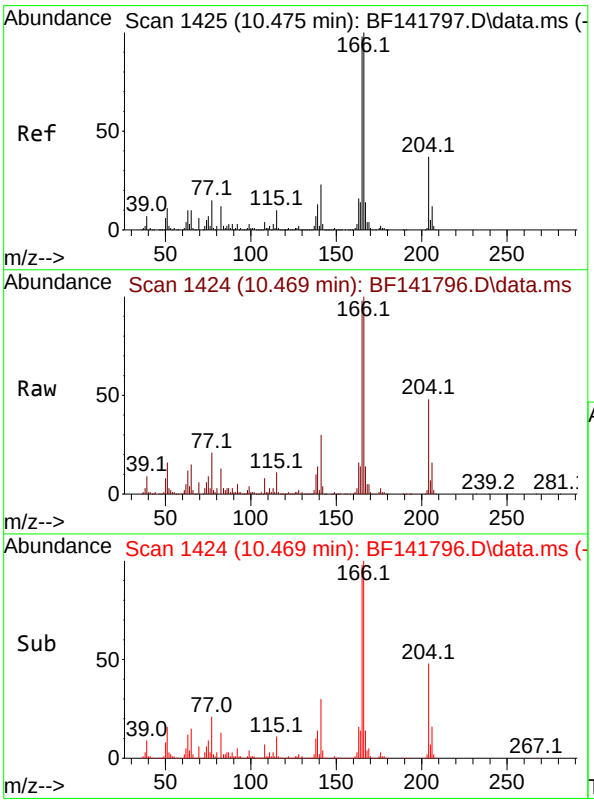
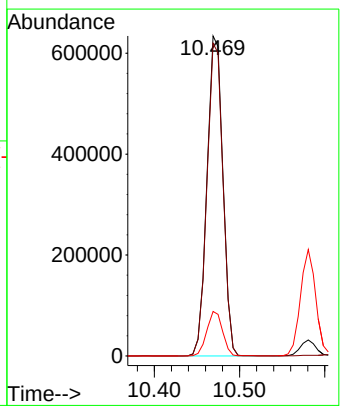
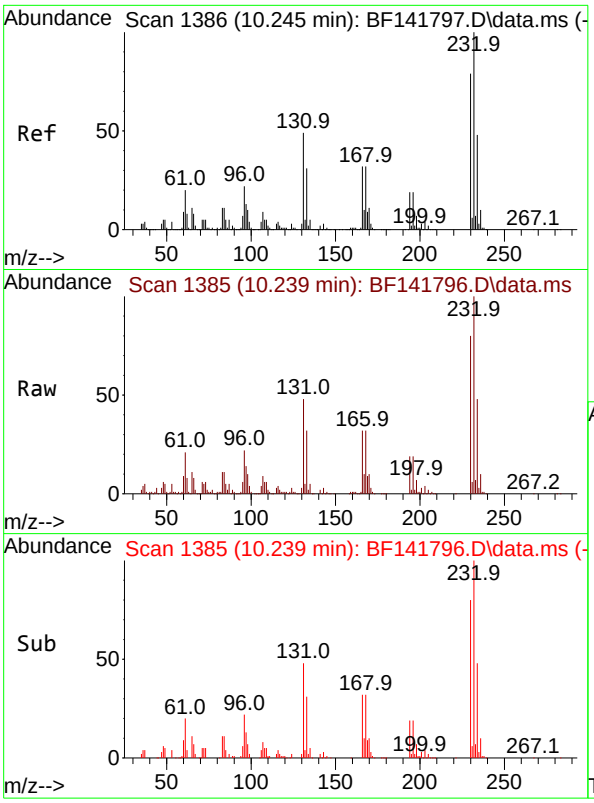


#58
Fluorene
Concen: 21.187 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:166 Resp: 822264

Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.6	117.8
167	13.9	11.0	16.4

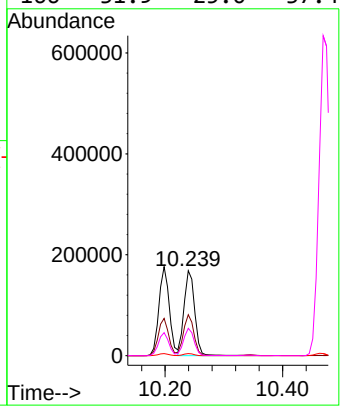




#59
2,3,4,6-Tetrachlorophenol
Concen: 20.902 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:232 Resp: 21033

Ion	Ratio	Lower	Upper
232	100		
131	47.6	37.8	56.8
130	2.5	2.0	3.0
166	31.9	25.0	37.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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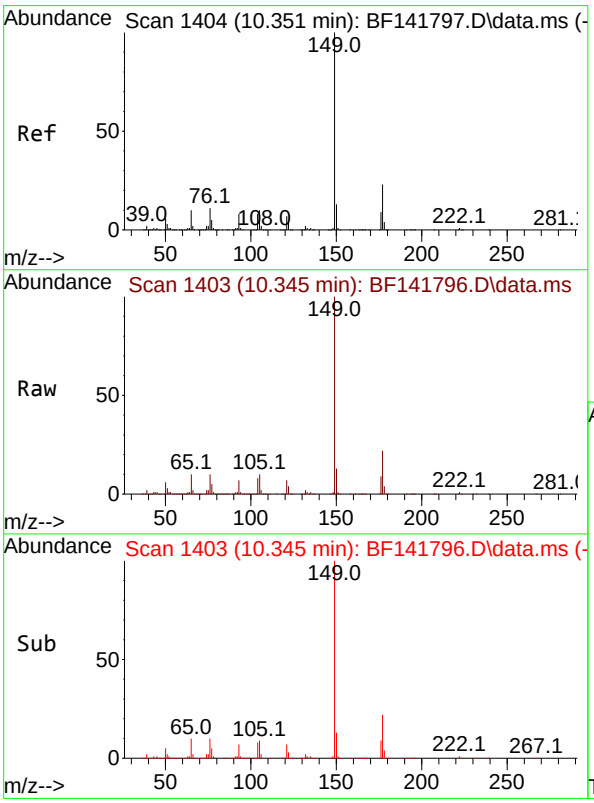
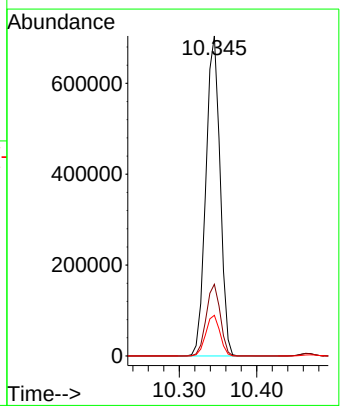
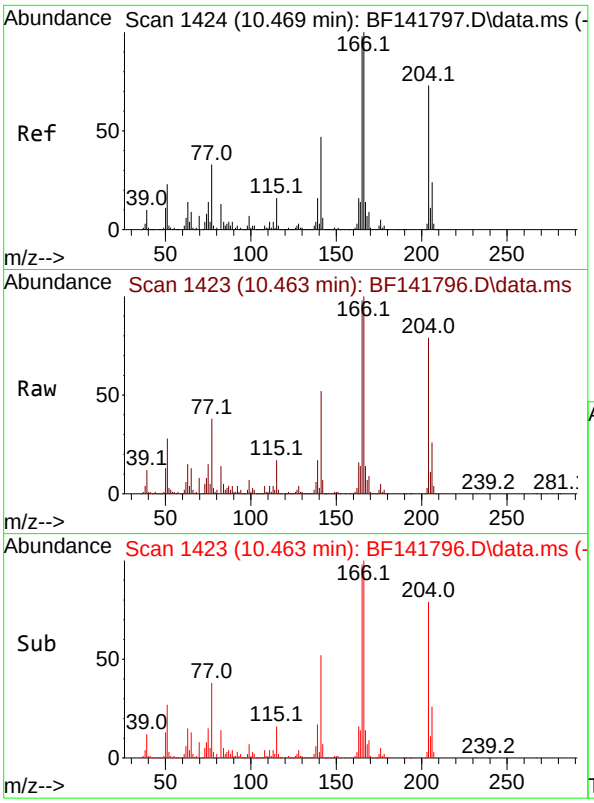


#60
Diethylphthalate
Concen: 21.264 ng
RT: 10.345 min Scan# 1403
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:149 Resp: 894118

Ion	Ratio	Lower	Upper
149	100		
177	22.4	18.3	27.5
150	12.7	10.3	15.5

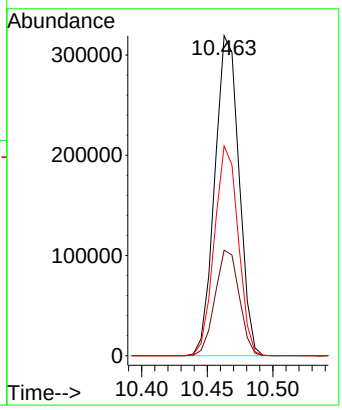




#61
4-Chlorophenyl-phenylether
Concen: 21.069 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:204 Resp: 40969

Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.2	39.4
141	65.6	51.7	77.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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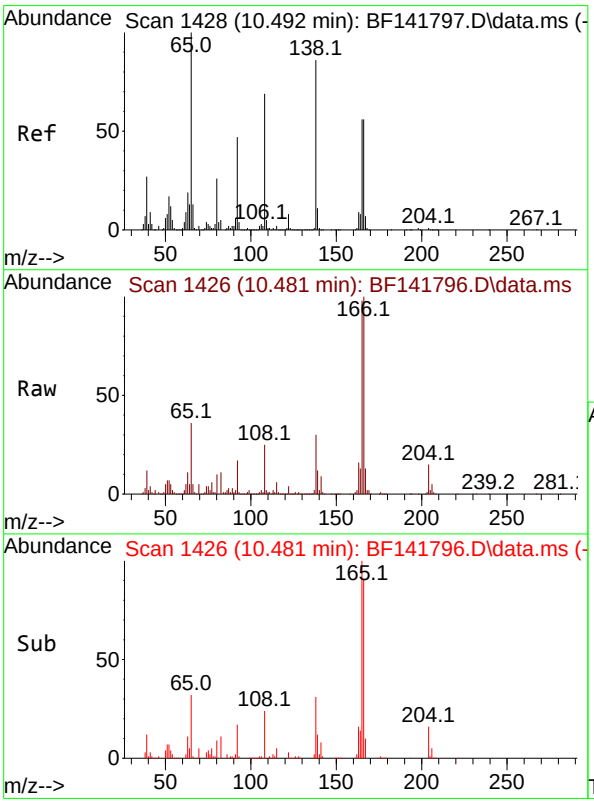
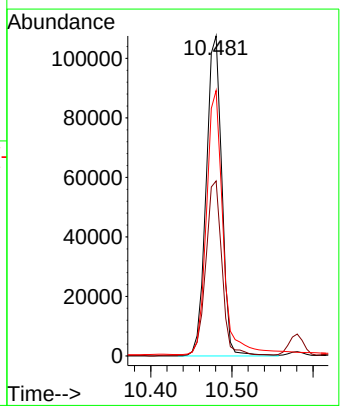
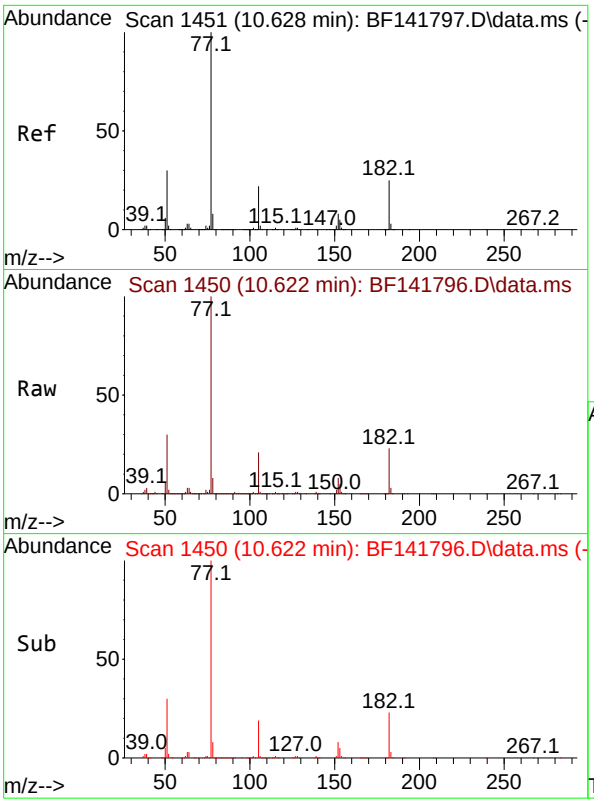


#62
4-Nitroaniline
Concen: 20.031 ng
RT: 10.481 min Scan# 1426
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:138 Resp: 143482

Ion	Ratio	Lower	Upper
138	100		
92	54.7	34.9	74.9
108	82.9	59.6	99.6

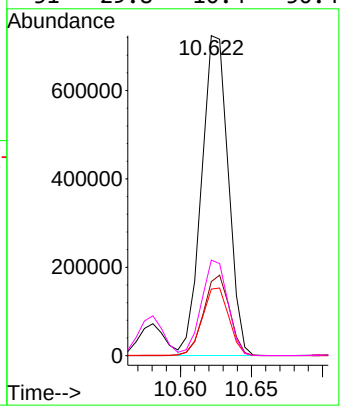




#63
Azobenzene
Concen: 21.288 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 77 Resp: 942499

Ion	Ratio	Lower	Upper
77	100		
182	23.2	4.2	44.2
105	20.8	1.5	41.5
51	29.8	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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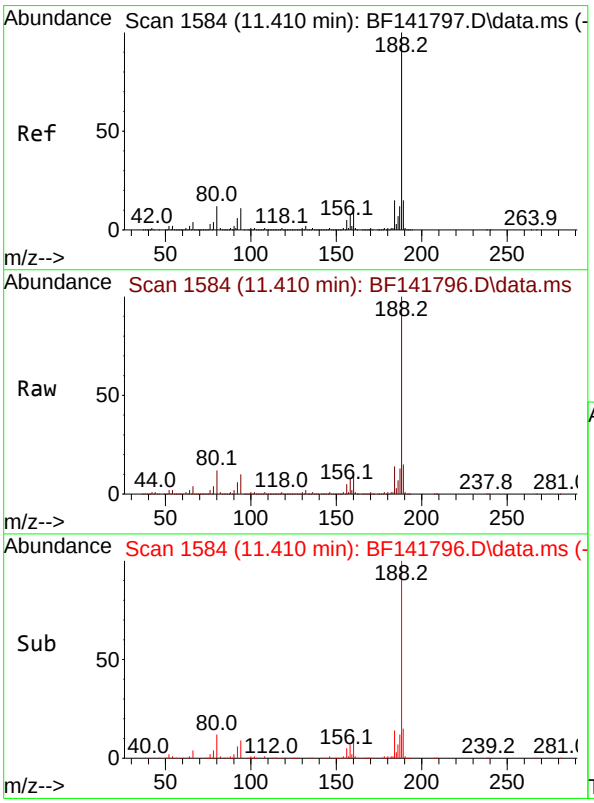
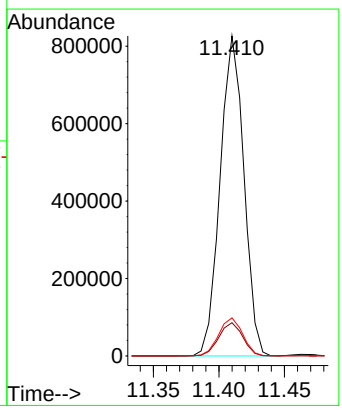
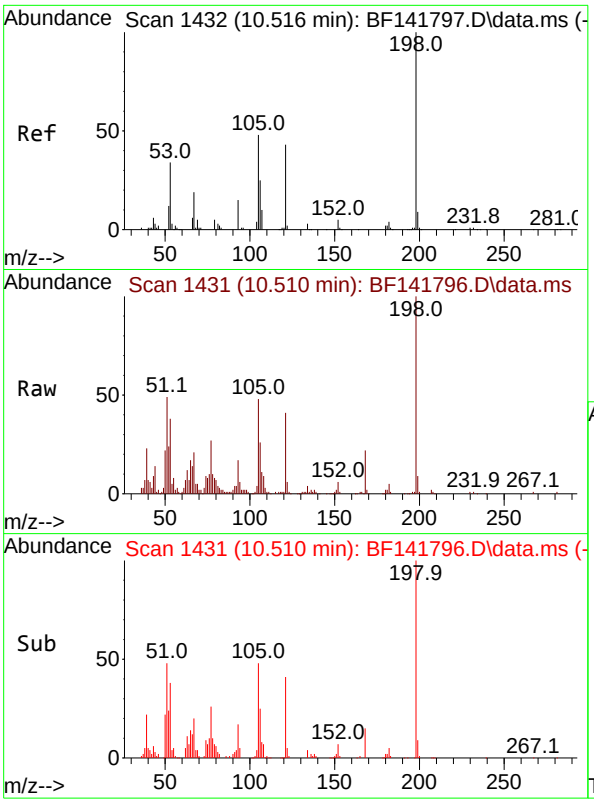


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:188 Resp: 1041715

Ion	Ratio	Lower	Upper
188	100		
94	10.4	8.9	13.3
80	11.9	9.7	14.5





#65
4,6-Dinitro-2-methylphenol
Concen: 19.161 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:198 Resp: 6516

Ion	Ratio	Lower	Upper
198	100		
51	48.7	32.1	72.1
105	47.9	28.5	68.5

Manual Integrations
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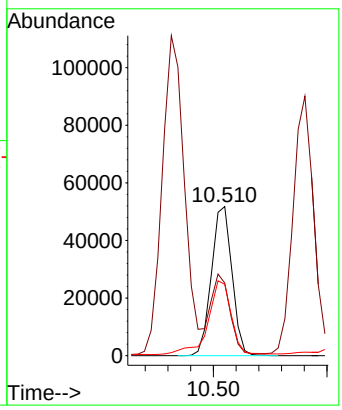
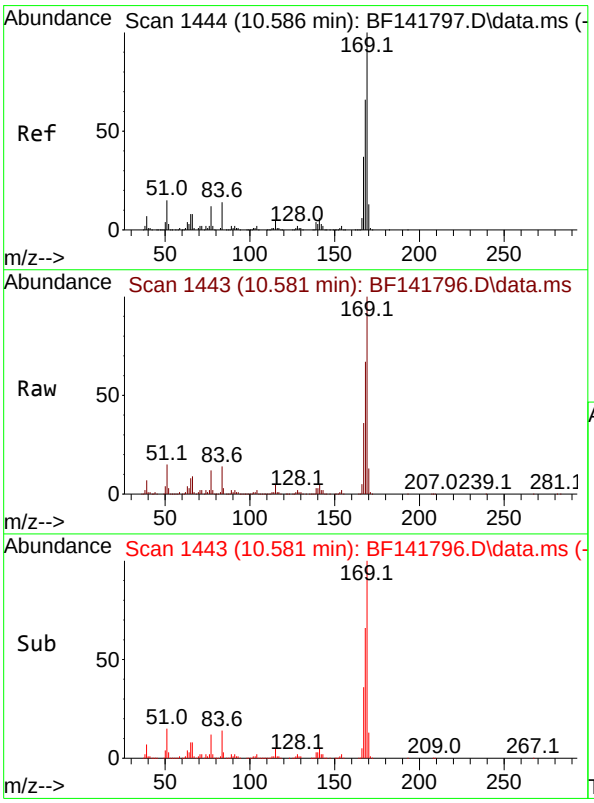
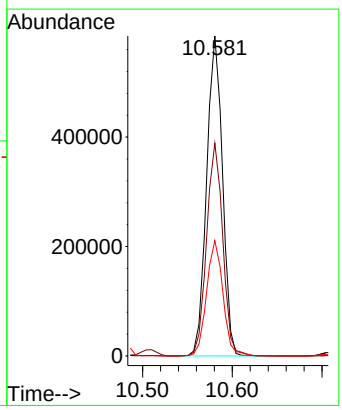


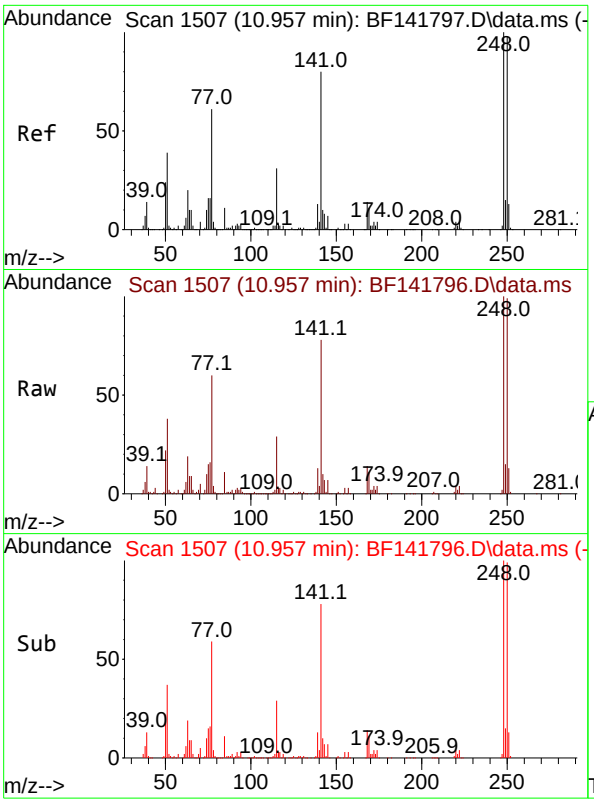


#66
n-Nitrosodiphenylamine
Concen: 20.977 ng
RT: 10.581 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:169 Resp: 717531

Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.0	79.6
167	36.0	29.3	43.9





#67
4-Bromophenyl-phenylether
Concen: 20.423 ng
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:248 Resp: 24850

Ion	Ratio	Lower	Upper
248	100		
250	98.6	78.1	117.1
141	78.3	64.3	96.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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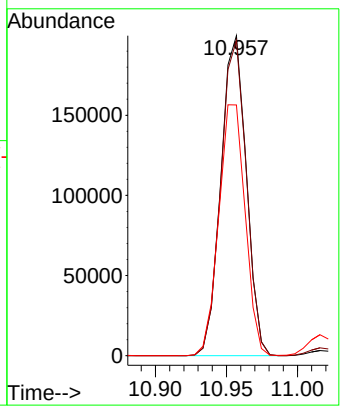
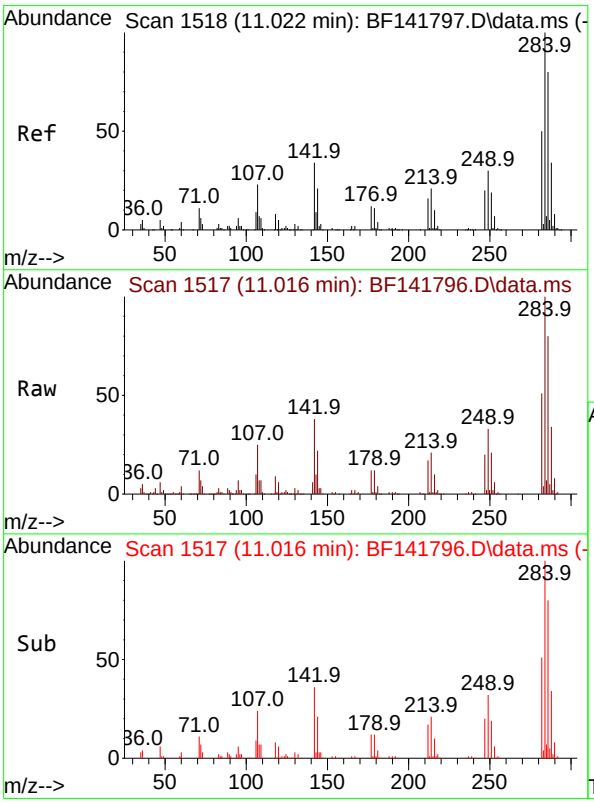
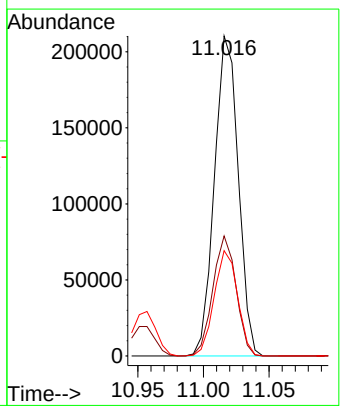


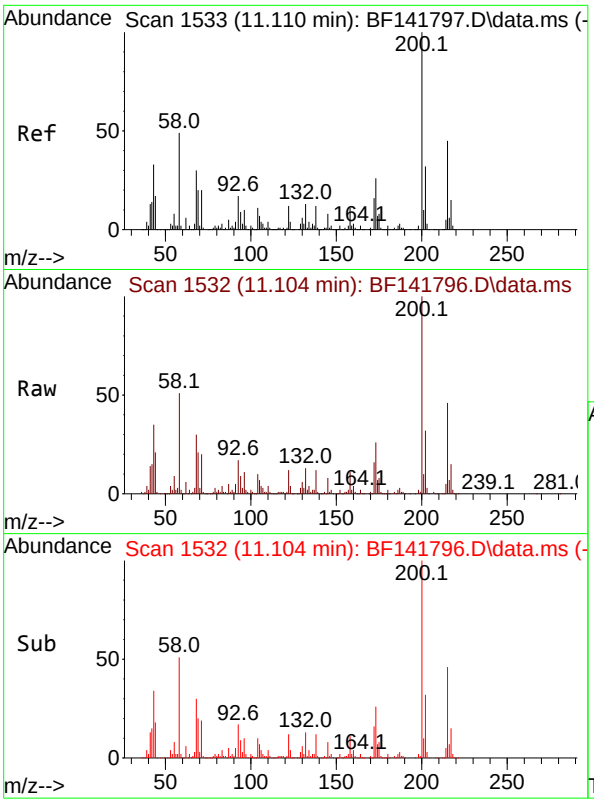


#68
Hexachlorobenzene
Concen: 20.653 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:284 Resp: 265367

Ion	Ratio	Lower	Upper
284	100		
142	37.5	28.2	42.2
249	32.9	25.5	38.3





#69
Atrazine
Concen: 21.680 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:200 Resp: 20393

Ion	Ratio	Lower	Upper
200	100		
173	25.7	5.6	45.6
215	45.8	25.3	65.3

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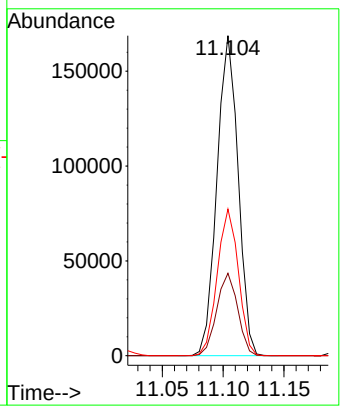
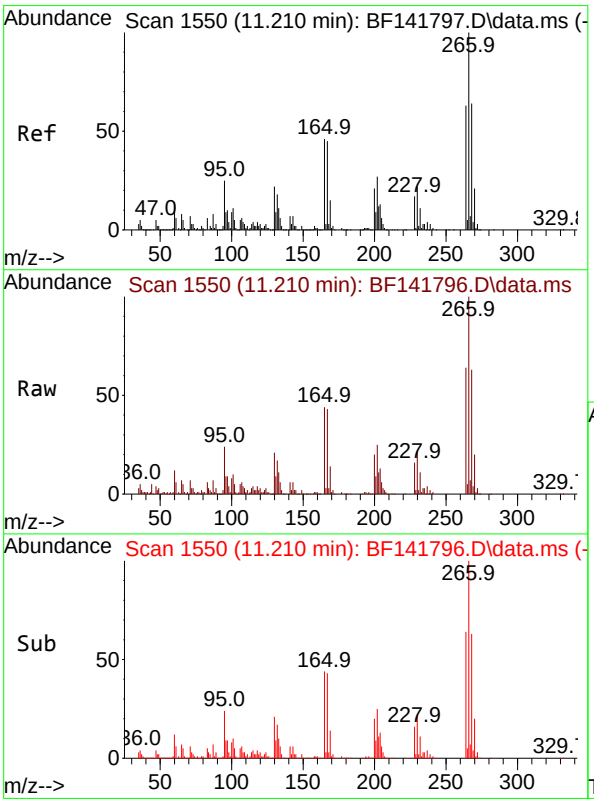
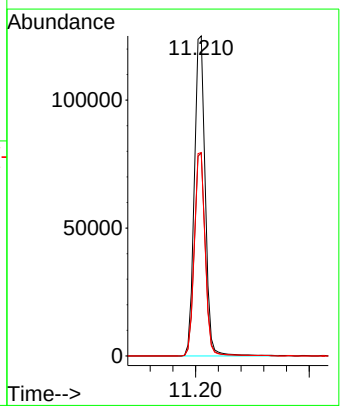


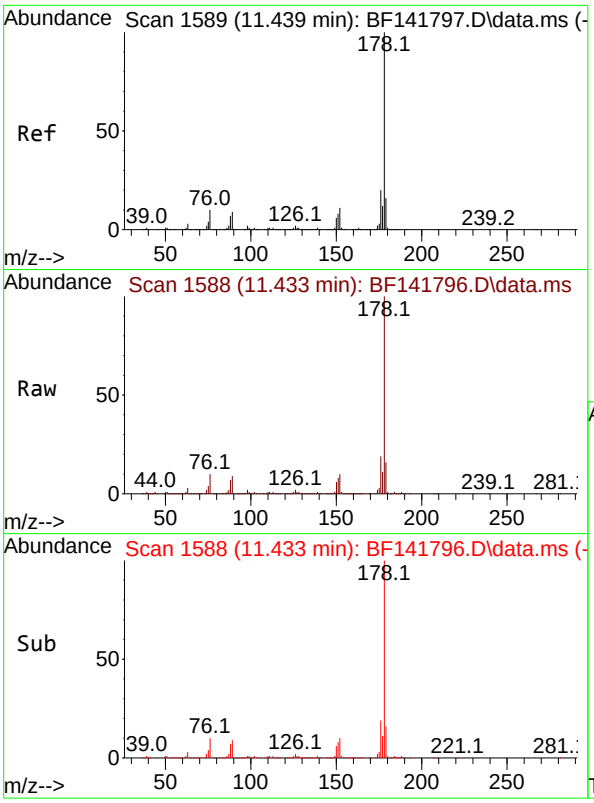


#70
Pentachlorophenol
Concen: 20.521 ng
RT: 11.210 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:266 Resp: 167231

Ion	Ratio	Lower	Upper
266	100		
268	63.5	50.9	76.3
264	63.6	50.2	75.4

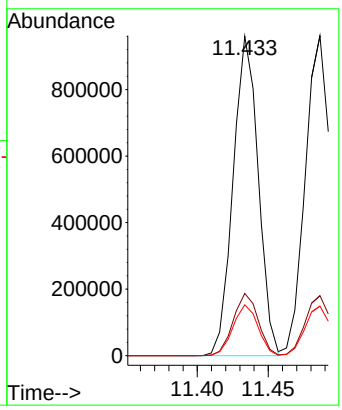




#71
Phenanthrene
Concen: 21.209 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:178 Resp: 118176

Ion	Ratio	Lower	Upper
178	100		
176	19.5	16.0	24.0
179	15.9	12.6	19.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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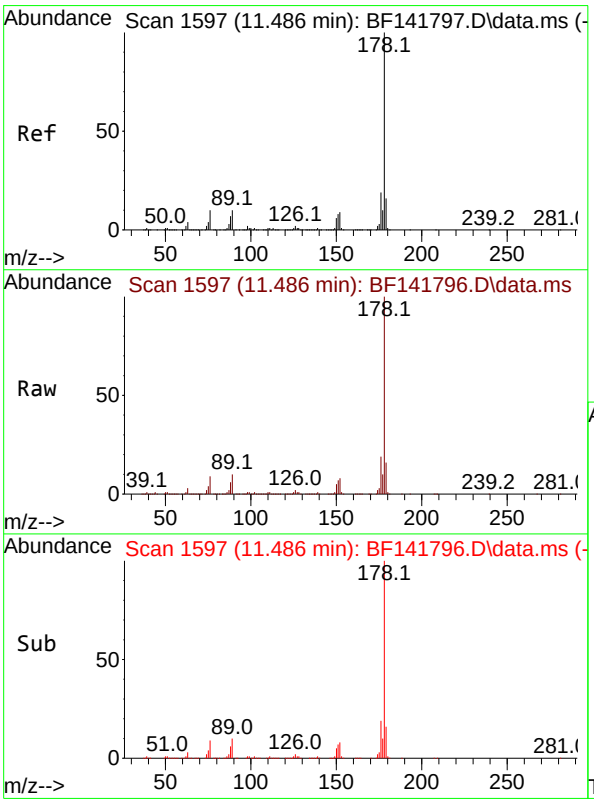
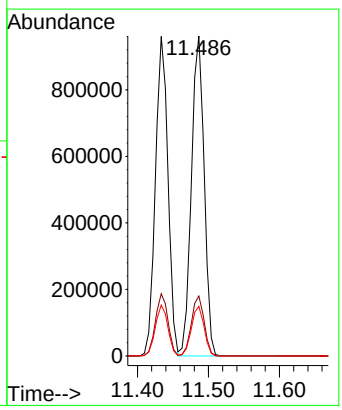
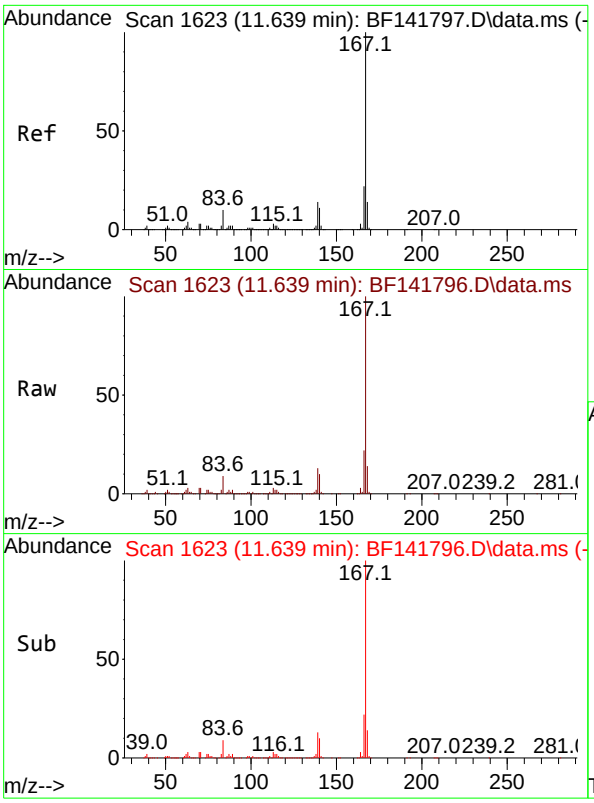


#72
Anthracene
Concen: 21.554 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:178 Resp: 1203701

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.0
179	15.5	12.8	19.2

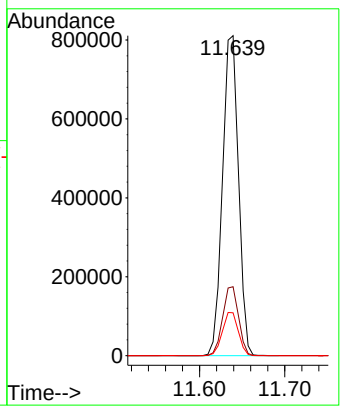




#73
Carbazole
Concen: 21.416 ng
RT: 11.639 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:167 Resp: 105614

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.5	26.3
139	13.4	11.3	16.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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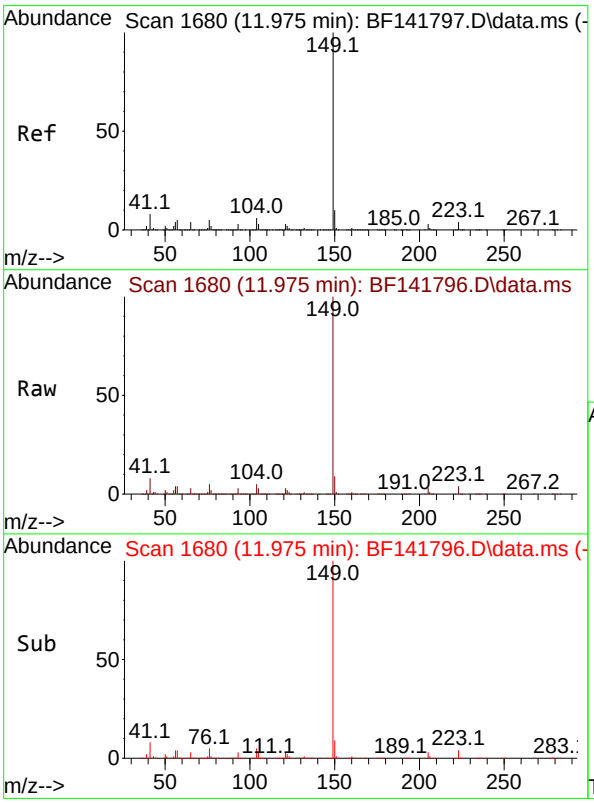
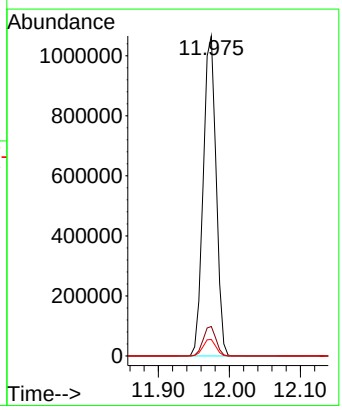
Supervised By :mohammad ahmed 02/28/2025

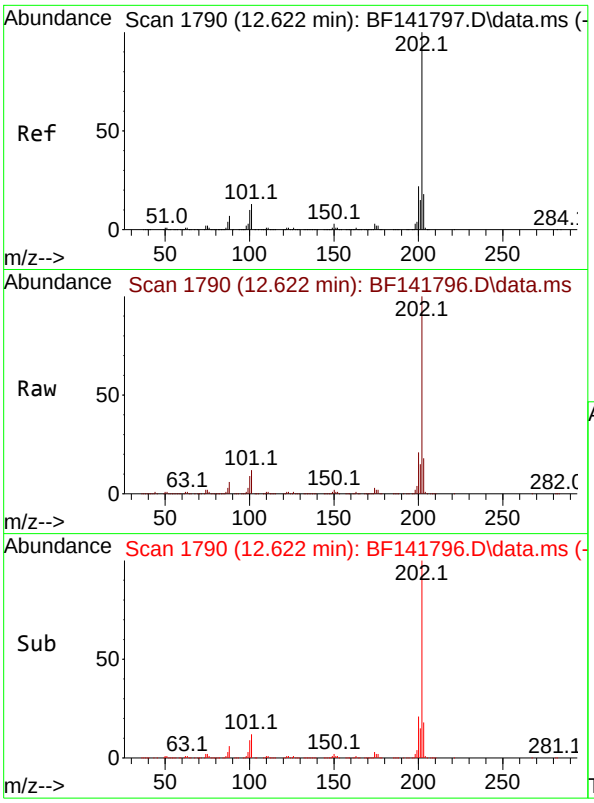


#74
Di-n-butylphthalate
Concen: 21.518 ng
RT: 11.975 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:149 Resp: 1345098

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.7	11.5
104	5.2	4.4	6.6





#75
Fluoranthene
Concen: 21.753 ng
RT: 12.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:202 Resp: 124203

Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	32.8
203	17.8	0.0	38.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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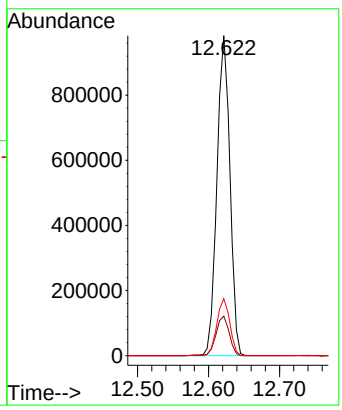
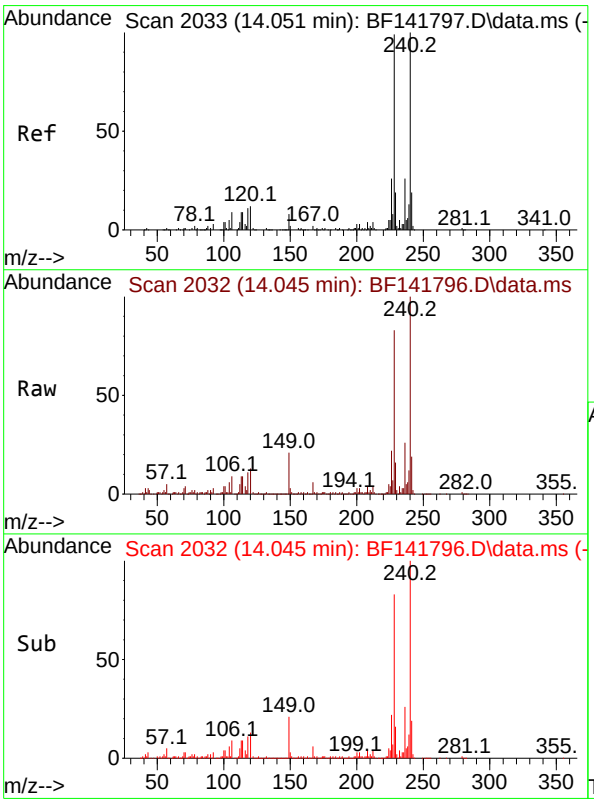
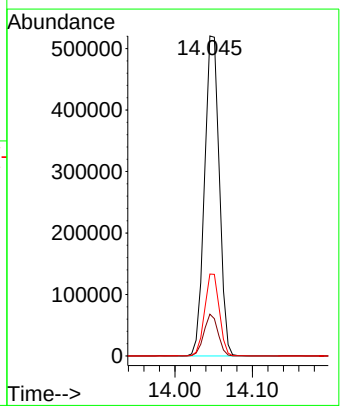


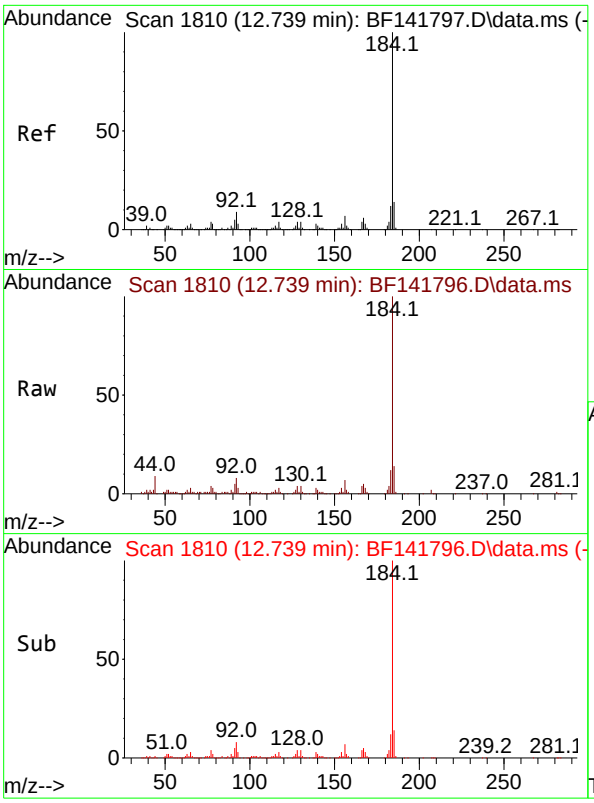


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:240 Resp: 688606

Ion	Ratio	Lower	Upper
240	100		
120	13.1	9.7	14.5
236	25.6	21.0	31.4

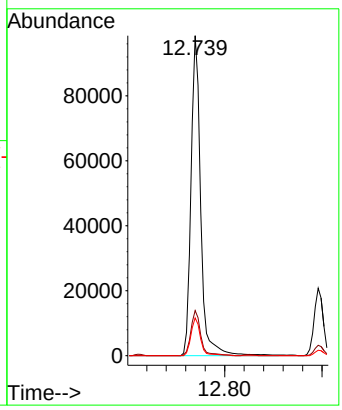




#77
Benzidine
Concen: 15.752 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:184 Resp: 13652

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.6	17.4
183	11.8	9.4	14.0



Instrument :
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ClientSampleId :
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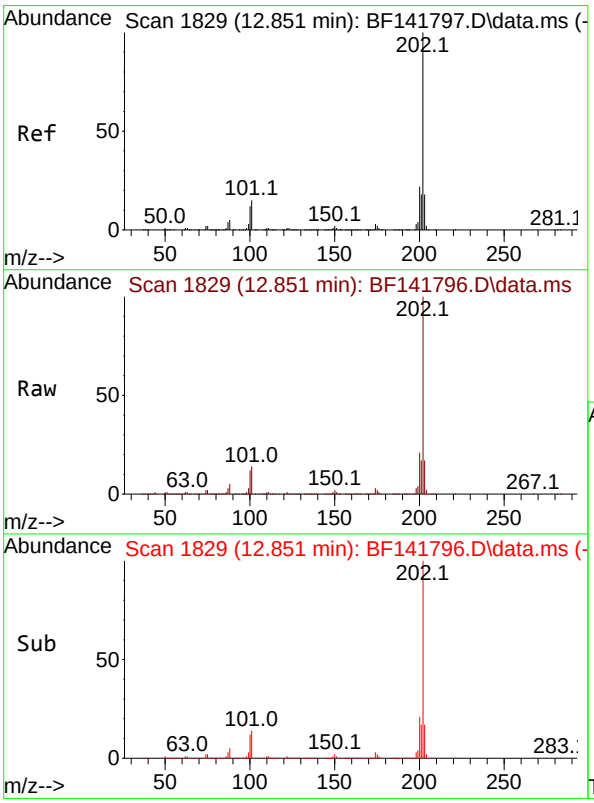
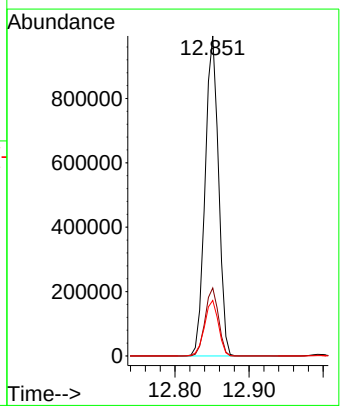
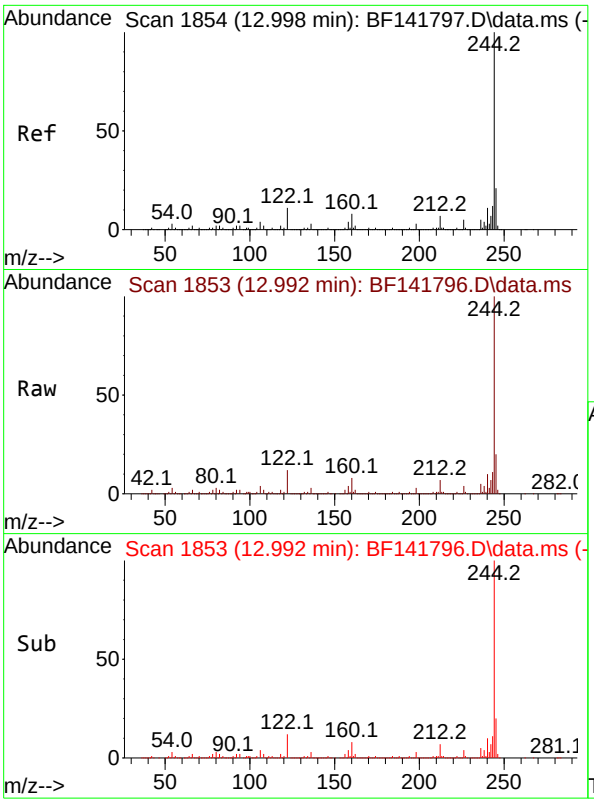


#78
Pyrene
Concen: 20.957 ng
RT: 12.851 min Scan# 1829
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:202 Resp: 1249647

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.4	26.0
203	17.4	14.6	22.0

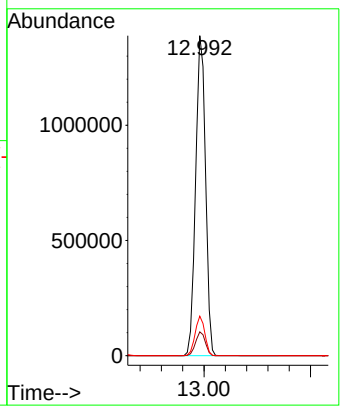




#79
Terphenyl-d14
Concen: 41.959 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:244 Resp: 178580

Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.0	9.0
122	12.4	9.0	13.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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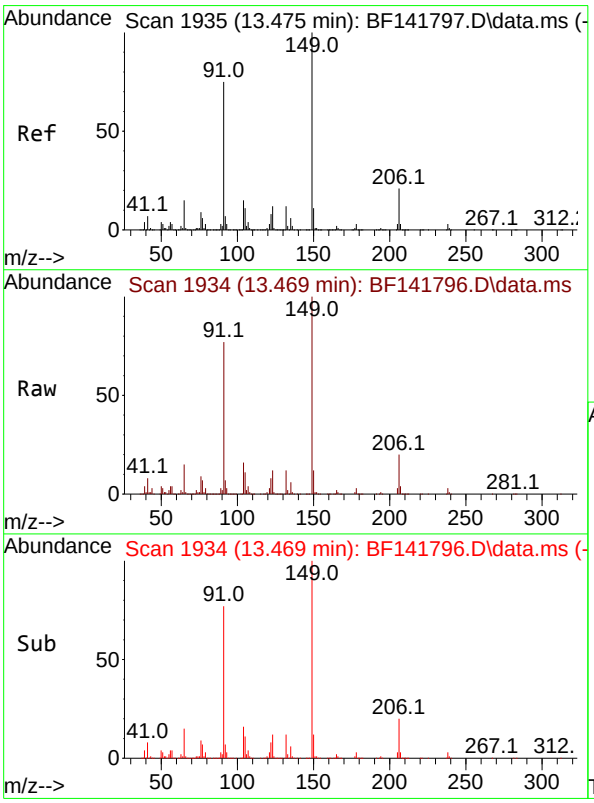
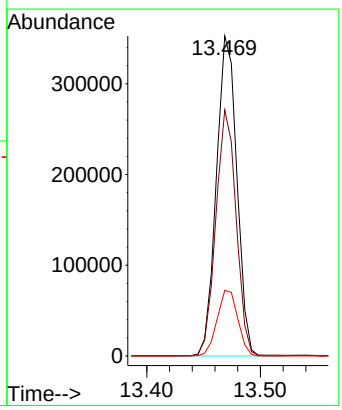
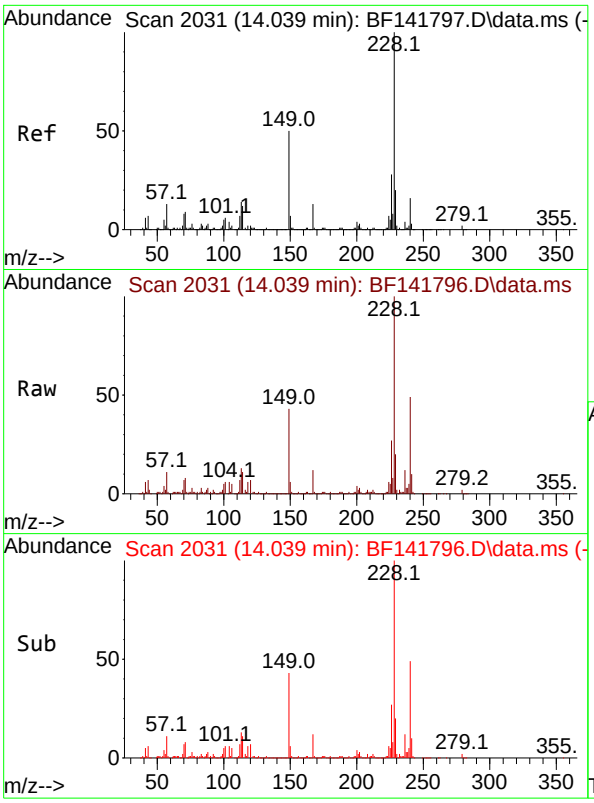


#80
Butylbenzylphthalate
Concen: 20.434 ng
RT: 13.469 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:149 Resp: 442702

Ion	Ratio	Lower	Upper
149	100		
91	76.9	60.1	90.1
206	20.5	16.8	25.2

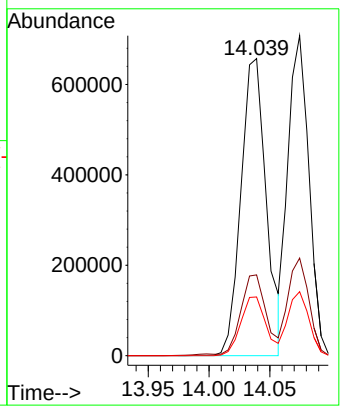




#81
Benzo(a)anthracene
Concen: 20.956 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:228 Resp: 95314

Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.1	33.1
229	19.8	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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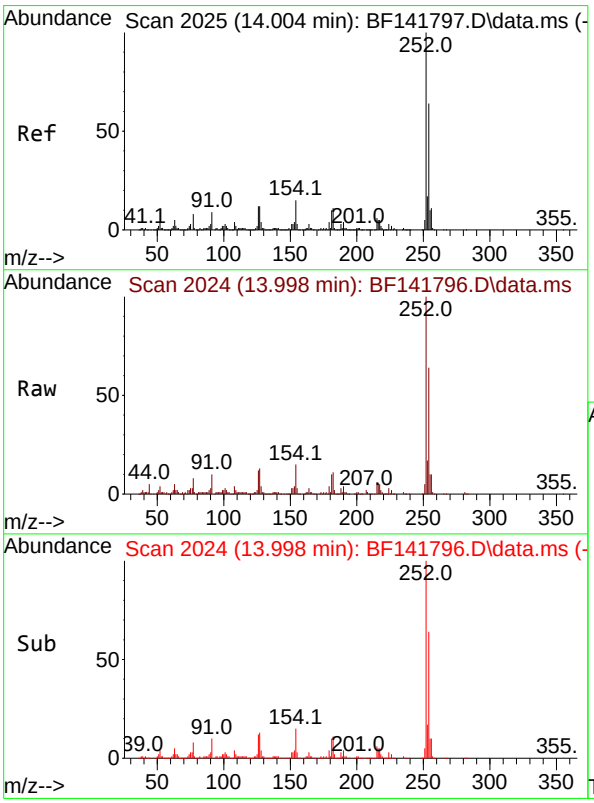
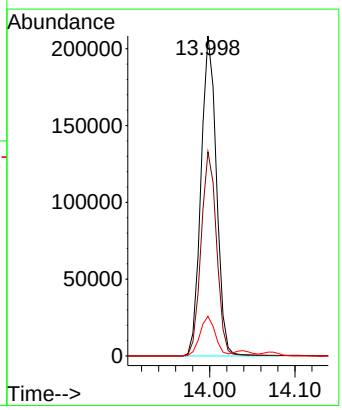
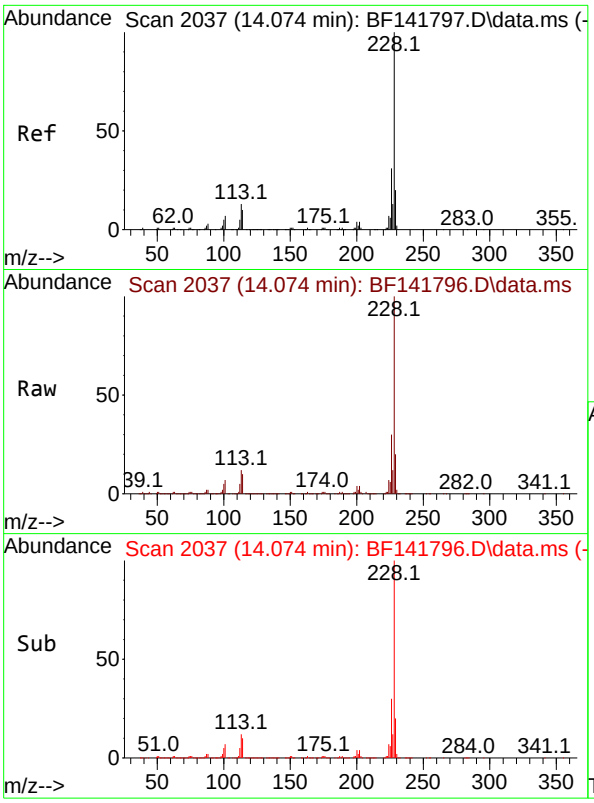


#82
3,3'-Dichlorobenzidine
Concen: 20.132 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:252 Resp: 262708

Ion	Ratio	Lower	Upper
252	100		
254	63.8	51.4	77.0
126	12.4	9.8	14.6

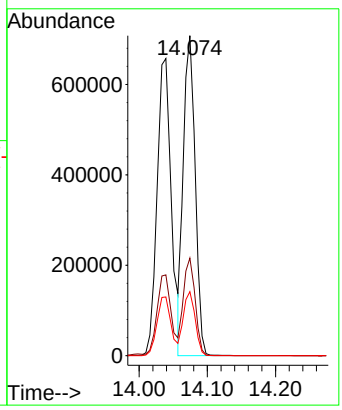




#83
Chrysene
Concen: 20.288 ng
RT: 14.074 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:228 Resp: 85064

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.6	37.0
229	20.0	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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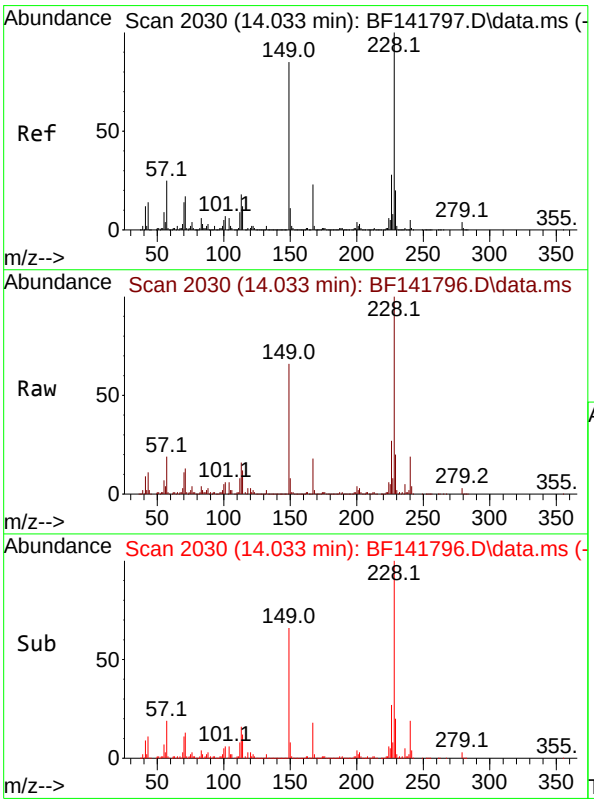
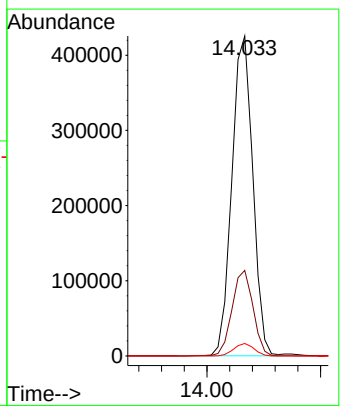
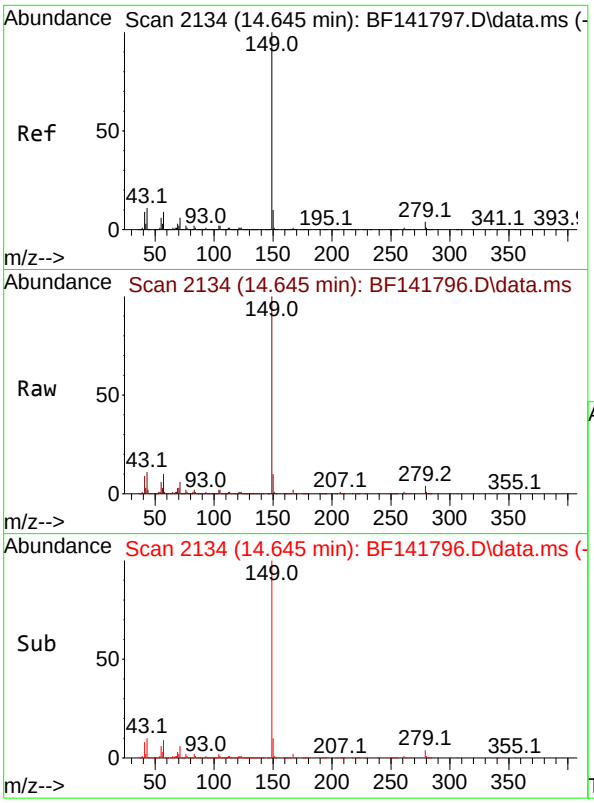


#84
Bis(2-ethylhexyl)phthalate
Concen: 20.122 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:149 Resp: 542812

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.2	31.8
279	3.9	3.3	4.9





#85
Di-n-octyl phthalate
Concen: 18.910 ng
RT: 14.645 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:149 Resp: 76368

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	10.7	8.6	12.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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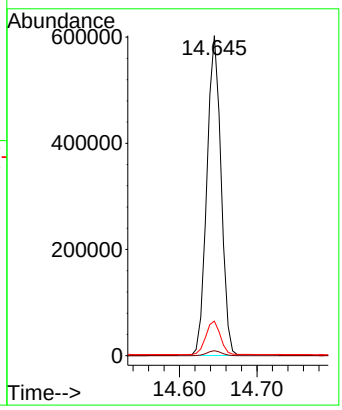
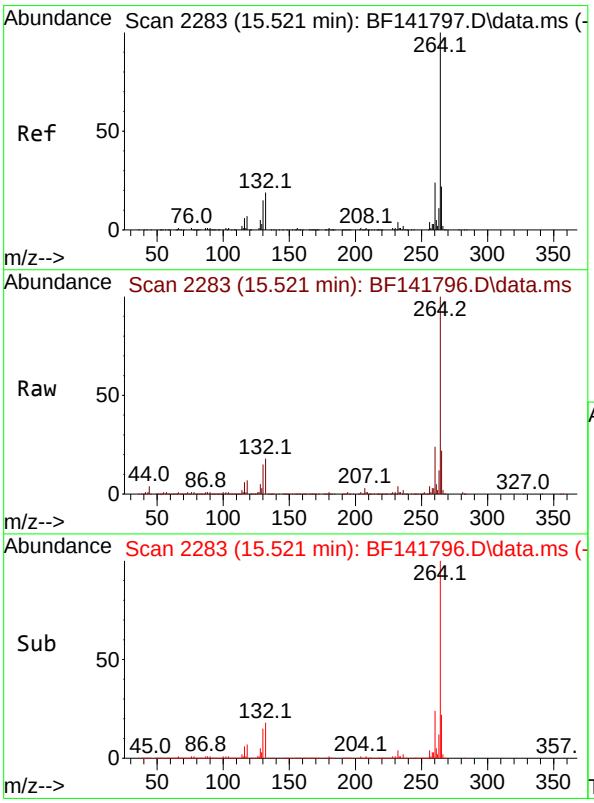
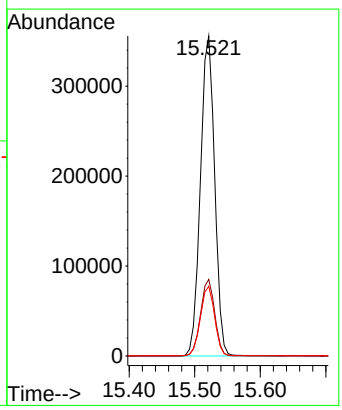


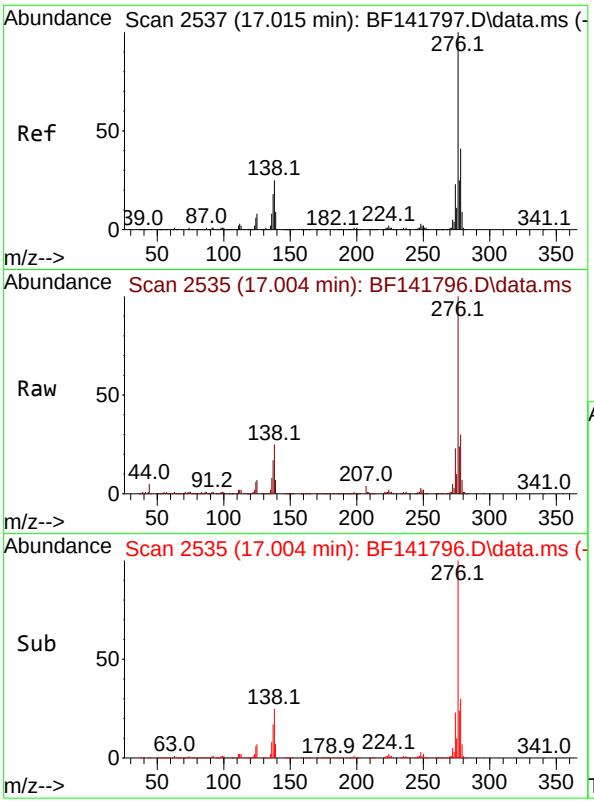


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:264 Resp: 539147

Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.9	28.3
265	21.7	17.4	26.0

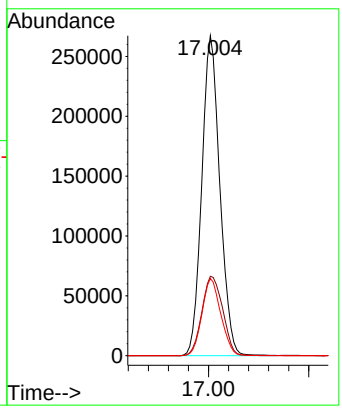




#87
Indeno(1,2,3-cd)pyrene
Concen: 19.480 ng
RT: 17.004 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:276 Resp: 66877

Ion	Ratio	Lower	Upper
276	100		
138	28.5	22.5	33.7
277	25.1	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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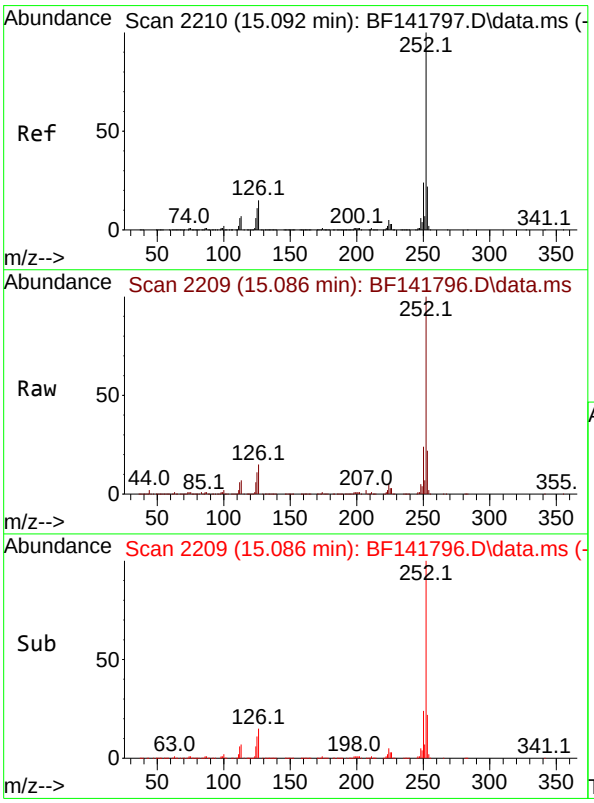
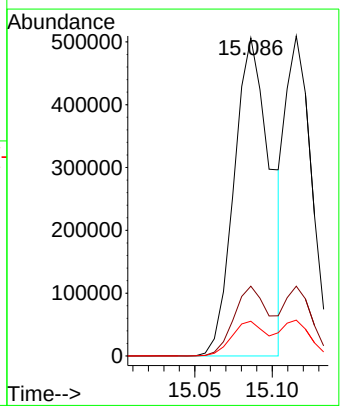
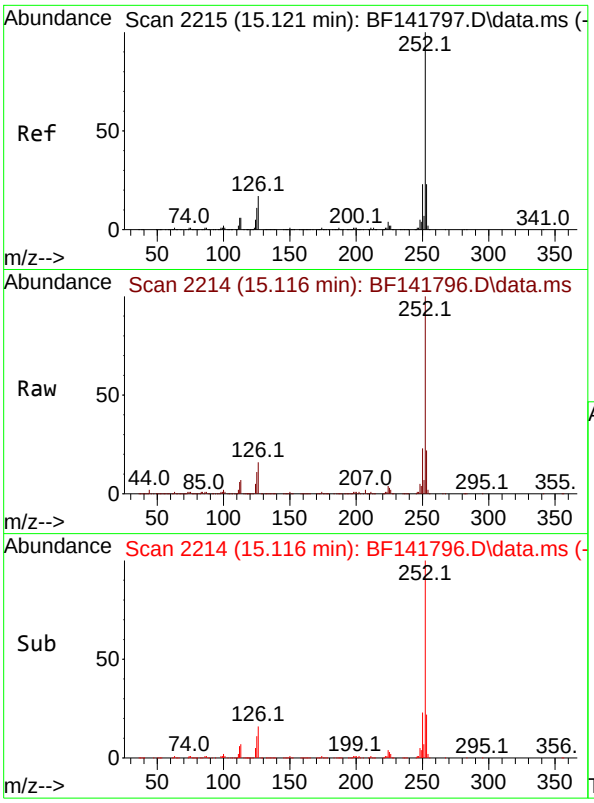


#88
Benzo(b)fluoranthene
Concen: 22.501 ng
RT: 15.086 min Scan# 2209
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:252 Resp: 826369

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.7	26.5
125	10.9	8.6	13.0





#89
Benzo(k)fluoranthene
Concen: 18.973 ng
RT: 15.116 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:252 Resp: 59225

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.8	26.8
125	11.2	8.8	13.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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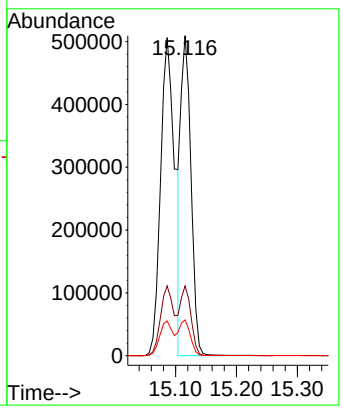
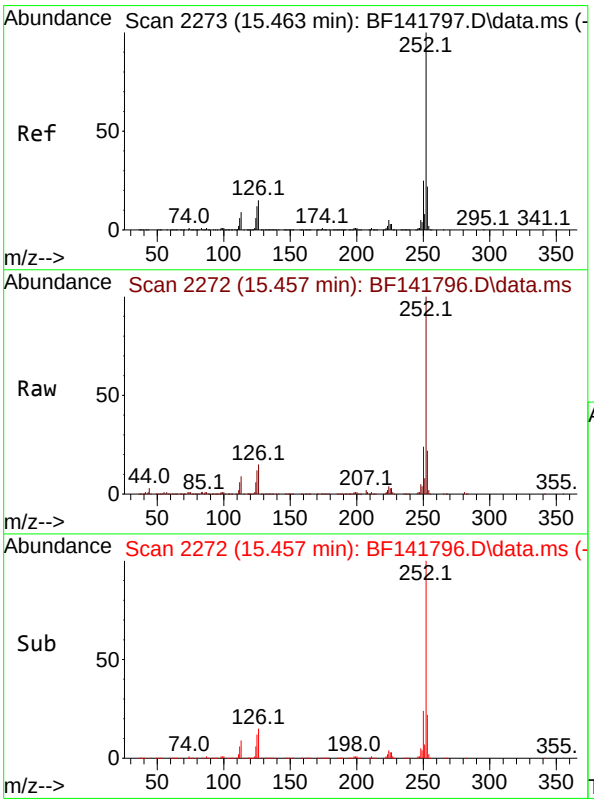
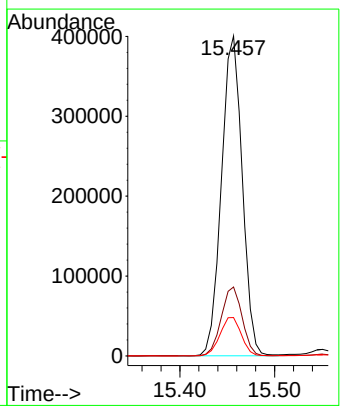


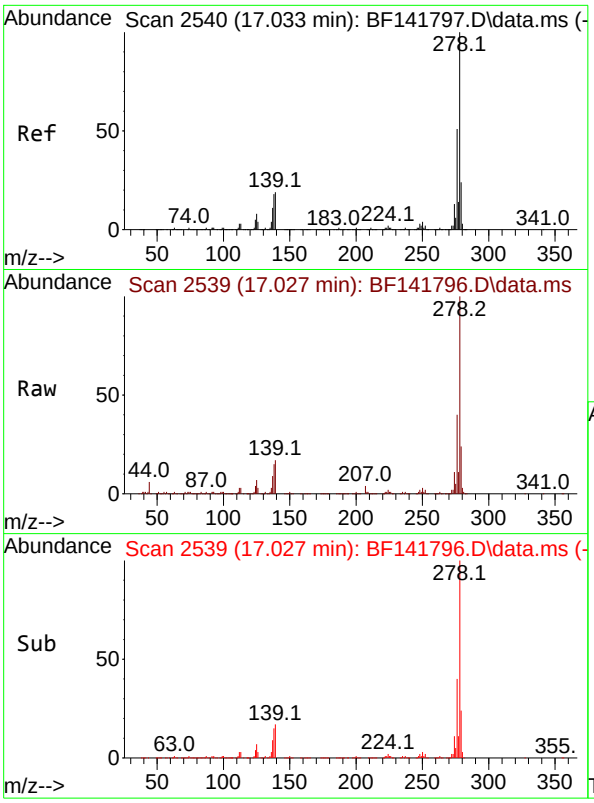


#90
Benzo(a)pyrene
Concen: 20.740 ng
RT: 15.457 min Scan# 2272
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:252 Resp: 610871

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.5	26.3
125	12.0	9.4	14.2

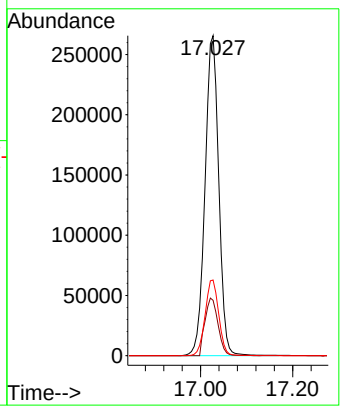




#91
Dibenzo(a,h)anthracene
Concen: 19.724 ng
RT: 17.027 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:278 Resp: 55272

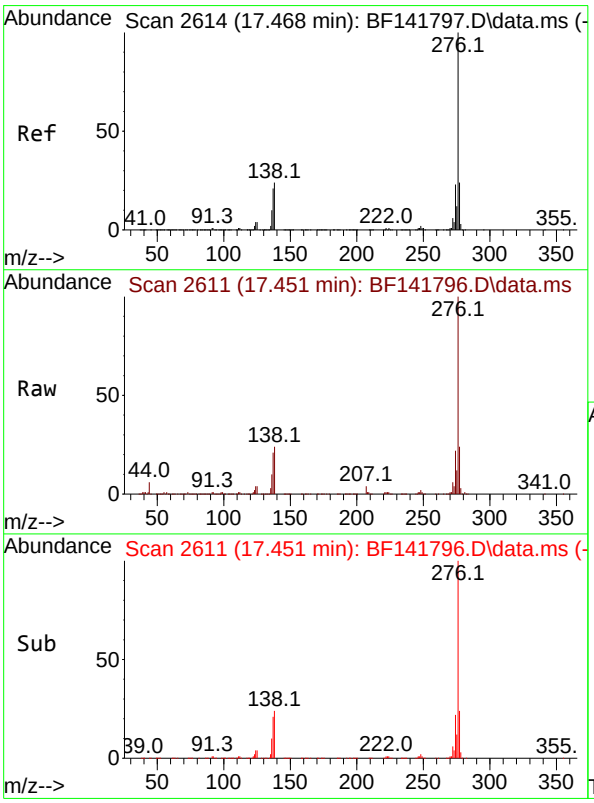
Ion	Ratio	Lower	Upper
278	100		
139	17.3	14.9	22.3
279	23.7	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

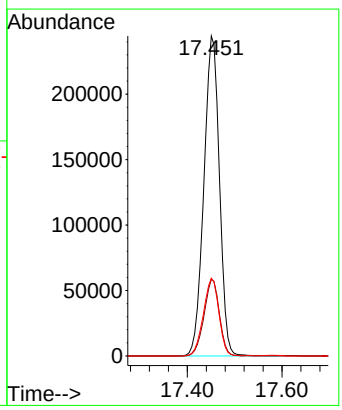
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025



#92
Benzo(g,h,i)perylene
Concen: 19.426 ng
RT: 17.451 min Scan# 2611
Delta R.T. -0.018 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:276 Resp: 557705

Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.4	29.0
138	24.3	19.3	28.9



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141797.D
Acq On : 27 Feb 2025 17:16
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 28 01:25:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	288066	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	1155717	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	625246	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	1031875	20.000	ng	0.00
76) Chrysene-d12	14.051	240	629307	20.000	ng	0.00
86) Perylene-d12	15.521	264	567240	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.499	112	1481716	82.144	ng	0.00
7) Phenol-d6	6.510	99	1940706	82.660	ng	0.00
23) Nitrobenzene-d5	7.451	82	1577764	87.263	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	498702	84.959	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	3094072	79.348	ng	0.00
79) Terphenyl-d14	12.998	244	3170442	81.511	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.687	88	343299	41.944	ng	100
3) Pyridine	3.452	79	850494	41.764	ng	100
4) n-Nitrosodimethylamine	3.405	42	420465	42.911	ng	100
6) Aniline	6.557	93	1042452	42.941	ng	100
8) 2-Chlorophenol	6.675	128	813316	41.681	ng	100
9) Benzaldehyde	6.440	77	565698	41.423	ng	100
10) Phenol	6.522	94	1048185	41.904	ng	100
11) bis(2-Chloroethyl)ether	6.628	93	771641	40.349	ng	100
12) 1,3-Dichlorobenzene	6.834	146	866494	41.465	ng	100
13) 1,4-Dichlorobenzene	6.910	146	871351	41.384	ng	100
14) 1,2-Dichlorobenzene	7.063	146	807407	41.065	ng	100
15) Benzyl Alcohol	7.028	79	787264	41.957	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.163	45	1197610	41.236	ng	100
17) 2-Methylphenol	7.134	107	670597	41.635	ng	100
18) Hexachloroethane	7.404	117	332747	42.223	ng	100
19) n-Nitroso-di-n-propyla...	7.304	70	626390	40.586	ng	100
20) 3+4-Methylphenols	7.287	107	830533	41.411	ng	100
22) Acetophenone	7.298	105	1147737	40.776	ng	100
24) Nitrobenzene	7.475	77	839887	43.379	ng	100
25) Isophorone	7.710	82	1575854	40.569	ng	100
26) 2-Nitrophenol	7.787	139	332584	39.357	ng	100
27) 2,4-Dimethylphenol	7.816	122	588158	41.191	ng	100
28) bis(2-Chloroethoxy)met...	7.922	93	1006606	40.624	ng	100
29) 2,4-Dichlorophenol	8.022	162	688860	41.819	ng	100
30) 1,2,4-Trichlorobenzene	8.110	180	737573	40.863	ng	100
31) Naphthalene	8.193	128	2410915	40.588	ng	100
32) Benzoic acid	7.934	122	442477	38.870	ng	100
33) 4-Chloroaniline	8.240	127	877082	40.271	ng	100
34) Hexachlorobutadiene	8.310	225	459338	40.952	ng	100
35) Caprolactam	8.610	113	211331m	41.695	ng	
36) 4-Chloro-3-methylphenol	8.710	107	752961	41.148	ng	100
37) 2-Methylnaphthalene	8.881	142	1565422	40.179	ng	100
38) 1-Methylnaphthalene	8.981	142	1506039	40.286	ng	100
40) 1,2,4,5-Tetrachloroben...	9.045	216	736508	40.786	ng	100
41) Hexachlorocyclopentadiene	9.040	237	323162	42.882	ng	100
43) 2,4,6-Trichlorophenol	9.157	196	497182	42.623	ng	100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141797.D
Acq On : 27 Feb 2025 17:16
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 28 01:25:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	478749	41.448	ng	100
46) 1,1'-Biphenyl	9.351	154	1899694	39.917	ng	100
47) 2-Chloronaphthalene	9.375	162	1419149	40.402	ng	100
48) 2-Nitroaniline	9.463	65	375120	39.827	ng	100
49) Acenaphthylene	9.792	152	2139722	40.629	ng	100
50) Dimethylphthalate	9.651	163	1704601	40.710	ng	100
51) 2,6-Dinitrotoluene	9.710	165	321129	40.557	ng	100
52) Acenaphthene	9.963	154	1437821	40.461	ng	100
53) 3-Nitroaniline	9.875	138	346294	41.045	ng	100
54) 2,4-Dinitrophenol	9.975	184	115933	39.874	ng	100
55) Dibenzofuran	10.134	168	2079139	40.198	ng	100
56) 4-Nitrophenol	10.022	139	285537	46.172	ng	100
57) 2,4-Dinitrotoluene	10.110	165	391858	40.635	ng	100
58) Fluorene	10.475	166	1536139	39.650	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	424277	42.235	ng	100
60) Diethylphthalate	10.351	149	1729522	41.203	ng	100
61) 4-Chlorophenyl-phenyle...	10.469	204	775274	39.939	ng	100
62) 4-Nitroaniline	10.492	138	333830	46.685	ng	100
63) Azobenzene	10.628	77	1796906	40.657	ng	100
65) 4,6-Dinitro-2-methylph...	10.516	198	179018	38.731	ng	100
66) n-Nitrosodiphenylamine	10.586	169	1371761	40.485	ng	100
67) 4-Bromophenyl-phenylether	10.957	248	490816	40.722	ng	100
68) Hexachlorobenzene	11.022	284	518266	40.721	ng	100
69) Atrazine	11.110	200	369439	39.649	ng	100
70) Pentachlorophenol	11.210	266	347791	43.086	ng	100
71) Phenanthrene	11.439	178	2214957	40.130	ng	100
72) Anthracene	11.486	178	2204147	39.845	ng	100
73) Carbazole	11.639	167	1971491	40.358	ng	100
74) Di-n-butylphthalate	11.975	149	2493783	40.274	ng	100
75) Fluoranthene	12.622	202	2248284	39.753	ng	100
77) Benzidine	12.739	184	326609	41.235	ng	100
78) Pyrene	12.851	202	2259888	41.470	ng	100
80) Butylbenzylphthalate	13.475	149	840509	42.452	ng	100
81) Benzo(a)anthracene	14.039	228	1651930	39.742	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	494528	41.467	ng	100
83) Chrysene	14.074	228	1591812	41.543	ng	100
84) Bis(2-ethylhexyl)phtha...	14.033	149	1046693	42.458	ng	100
85) Di-n-octyl phthalate	14.645	149	1644901	44.568	ng	100
87) Indeno(1,2,3-cd)pyrene	17.015	276	1526575	42.264	ng	100
88) Benzo(b)fluoranthene	15.092	252	1481931	38.353	ng	100
89) Benzo(k)fluoranthene	15.121	252	1377470	41.943	ng	100
90) Benzo(a)pyrene	15.463	252	1269914	40.981	ng	100
91) Dibenzo(a,h)anthracene	17.033	278	1257866	42.664	ng	100
92) Benzo(g,h,i)perylene	17.468	276	1281590	42.430	ng	100

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

ICAL Form

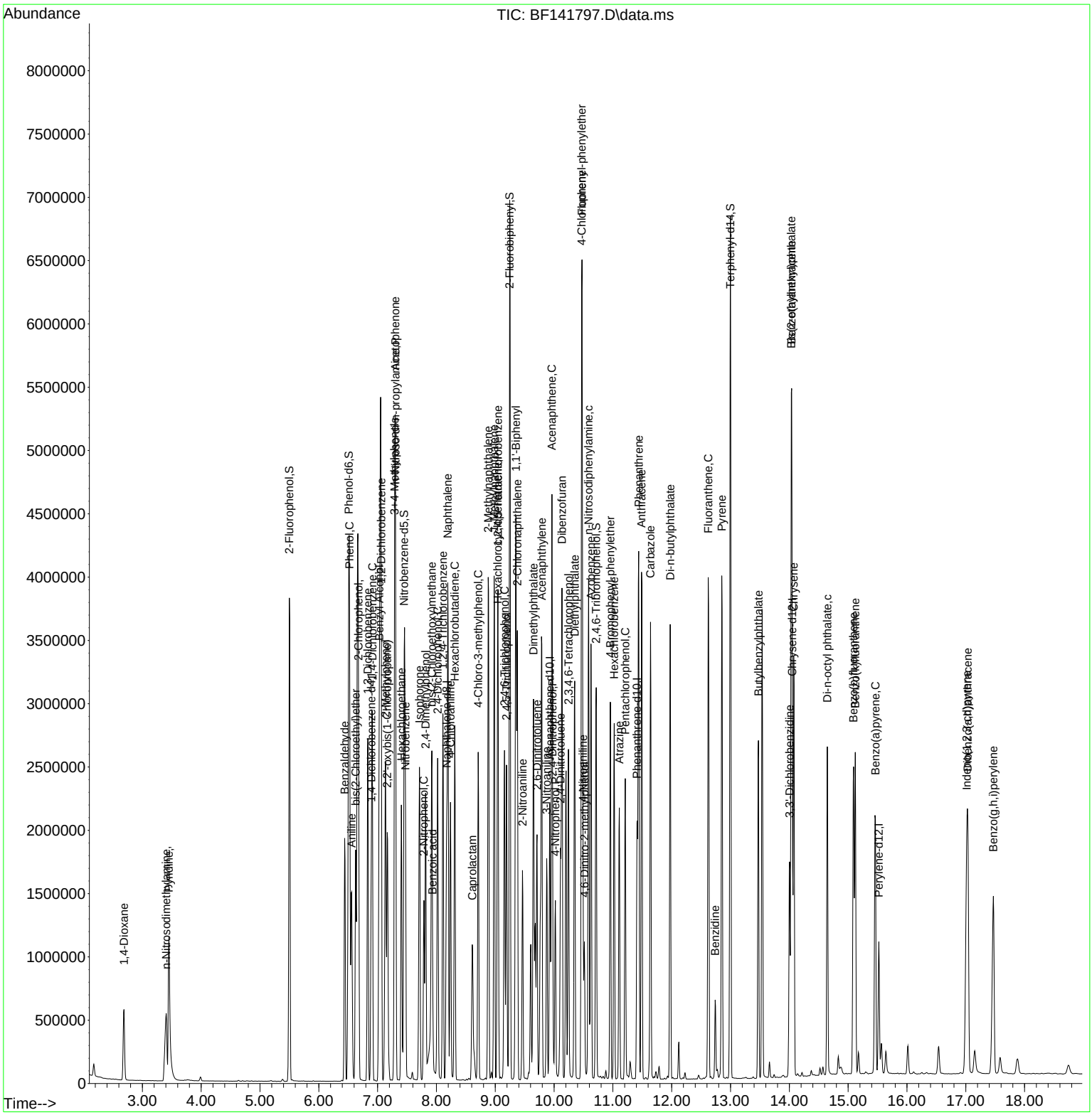
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141797.D
Acq On : 27 Feb 2025 17:16
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

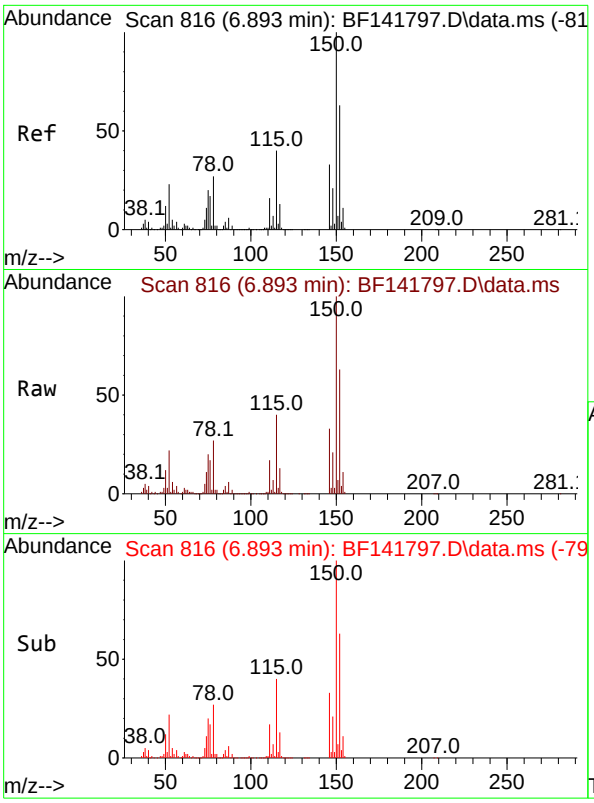
Quant Time: Feb 28 01:25:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

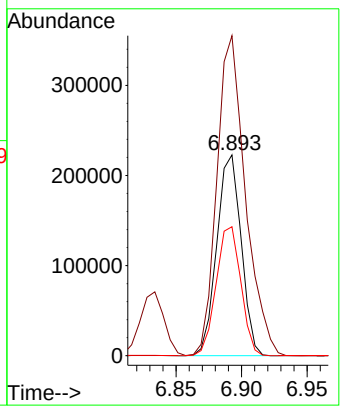




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.893 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:152 Resp: 28806

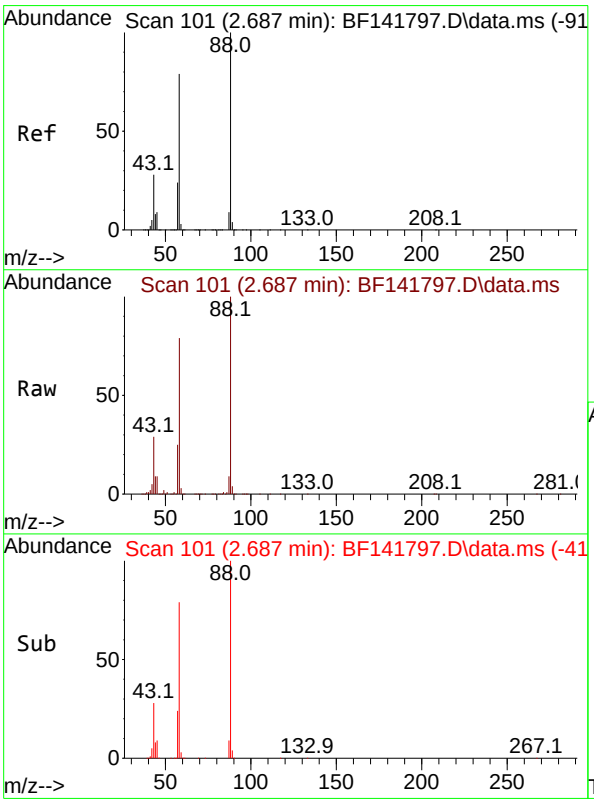
Ion	Ratio	Lower	Upper
152	100		
150	159.4	127.5	191.3
115	64.3	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

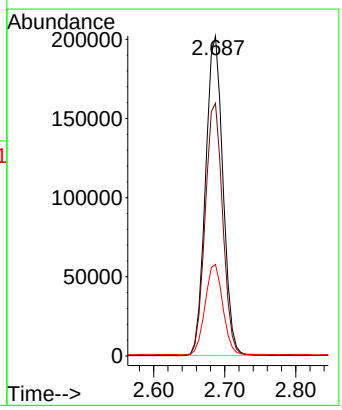
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

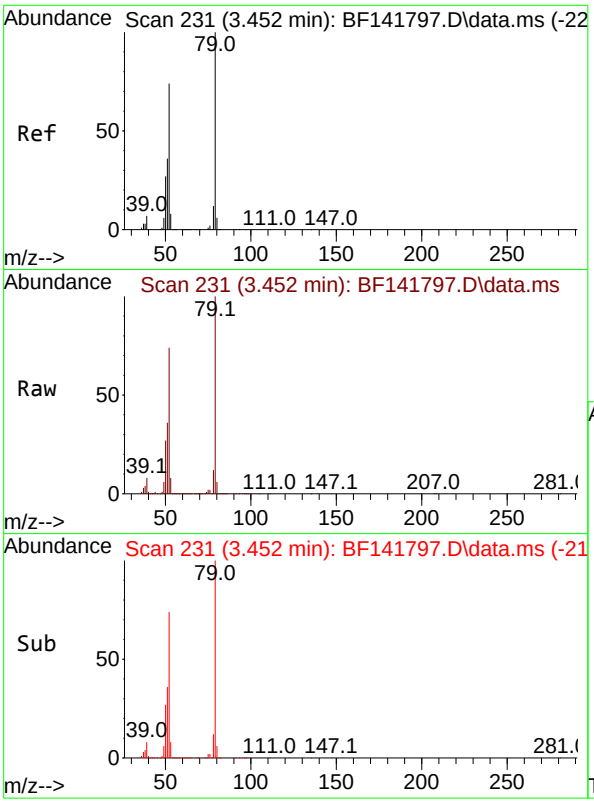


#2
1,4-Dioxane
Concen: 41.944 ng
RT: 2.687 min Scan# 101
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 88 Resp: 343299

Ion	Ratio	Lower	Upper
88	100		
58	79.9	63.9	95.9
43	28.8	23.0	34.6





#3
Pyridine
Concen: 41.764 ng
RT: 3.452 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

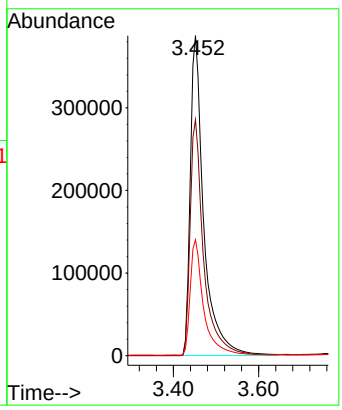
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

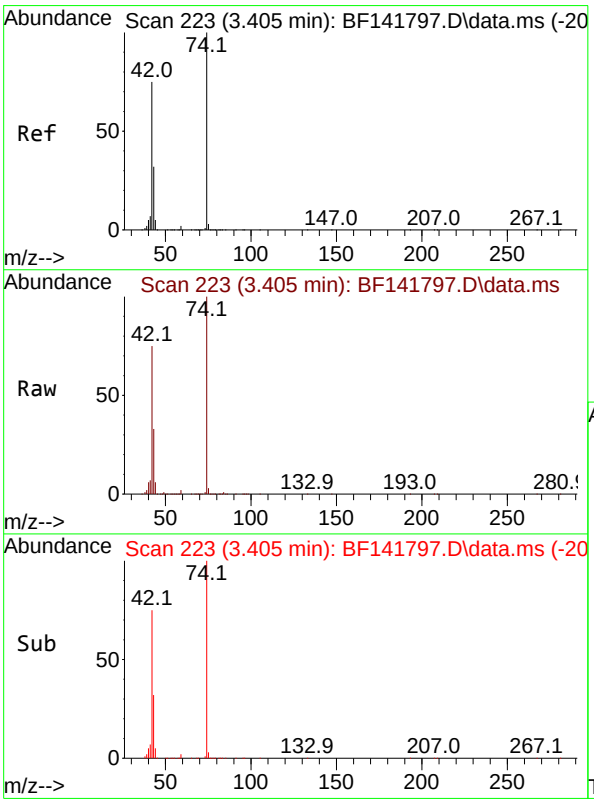
Tgt Ion: 79 Resp: 85049

Ion	Ratio	Lower	Upper
79	100		
52	73.7	59.0	88.4
51	36.2	29.0	43.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

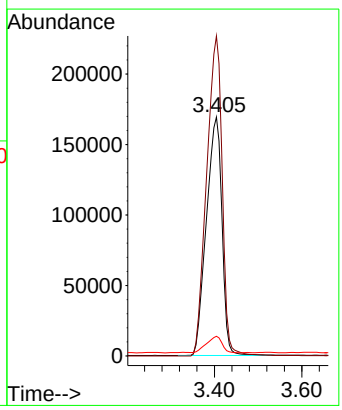


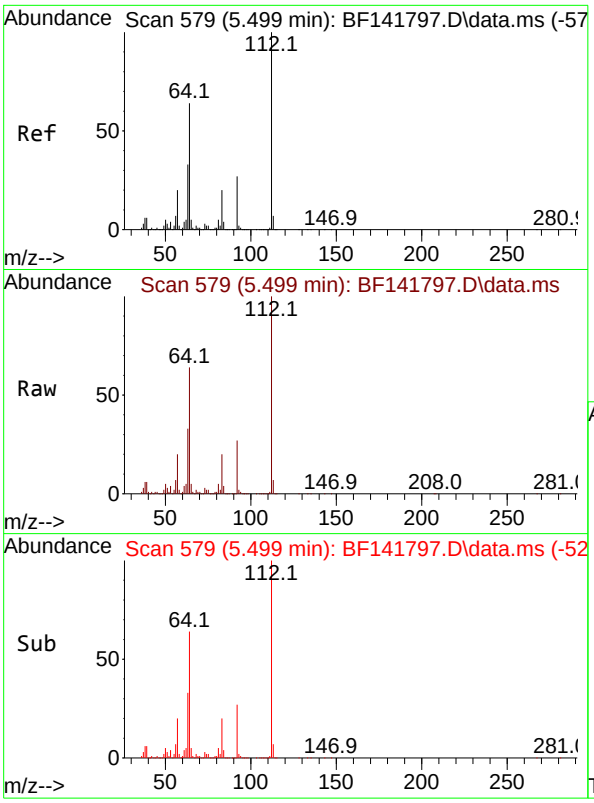


#4
n-Nitrosodimethylamine
Concen: 42.911 ng
RT: 3.405 min Scan# 223
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 42 Resp: 420465

Ion	Ratio	Lower	Upper
42	100		
74	133.9	107.1	160.7
44	8.2	6.6	9.8

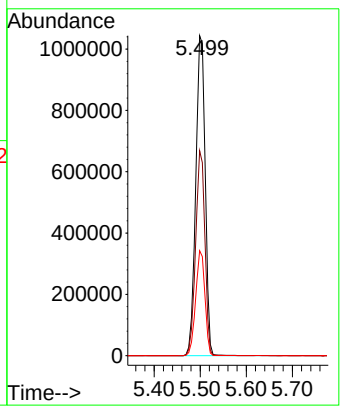




#5
2-Fluorophenol
Concen: 82.144 ng
RT: 5.499 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:112 Resp: 148171(

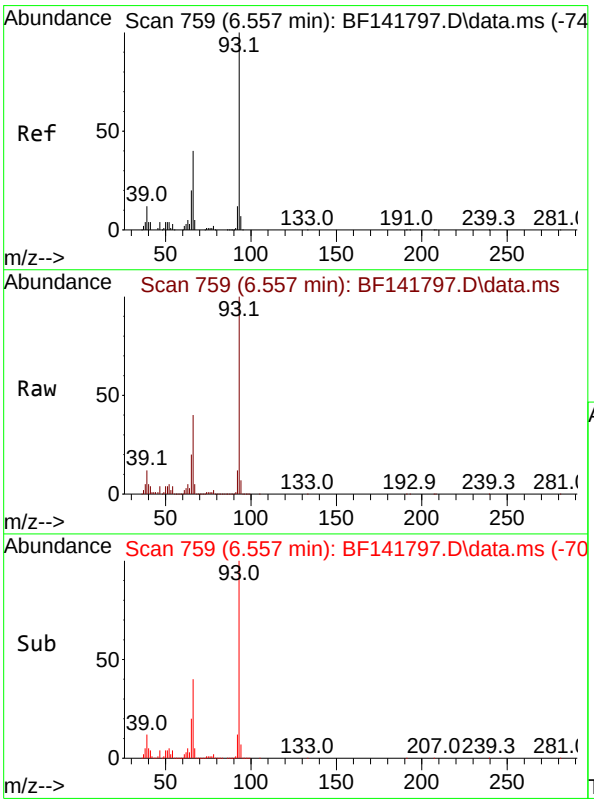
Ion	Ratio	Lower	Upper
112	100		
64	64.1	51.3	76.9
63	32.8	26.2	39.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

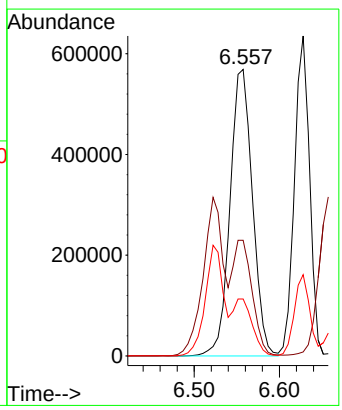
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

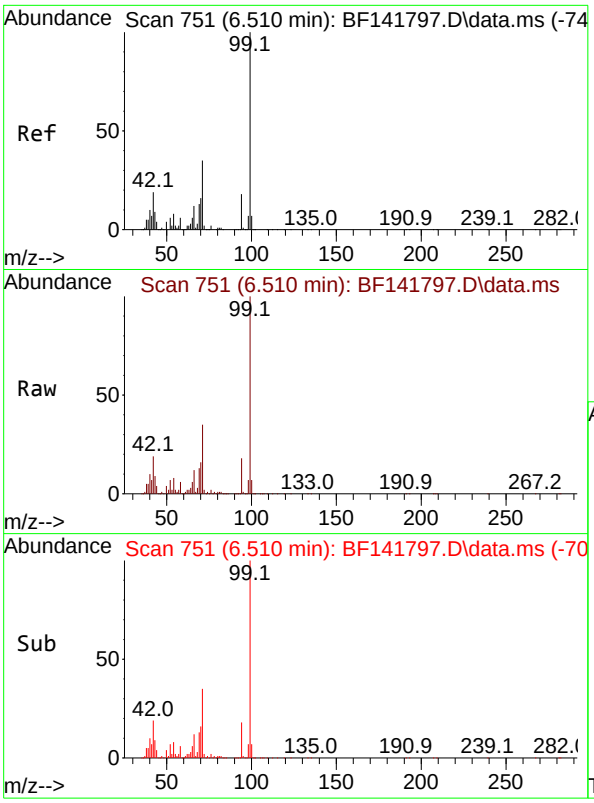


#6
Aniline
Concen: 42.941 ng
RT: 6.557 min Scan# 759
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 93 Resp: 1042452

Ion	Ratio	Lower	Upper
93	100		
66	40.4	32.3	48.5
65	19.9	15.9	23.9

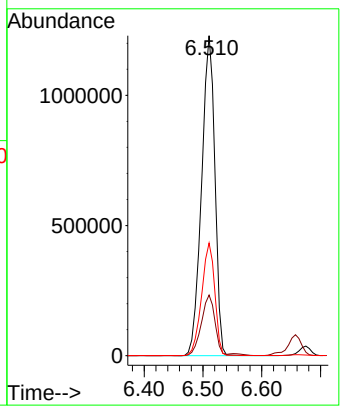




#7
Phenol-d6
Concen: 82.660 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 99 Resp: 194070

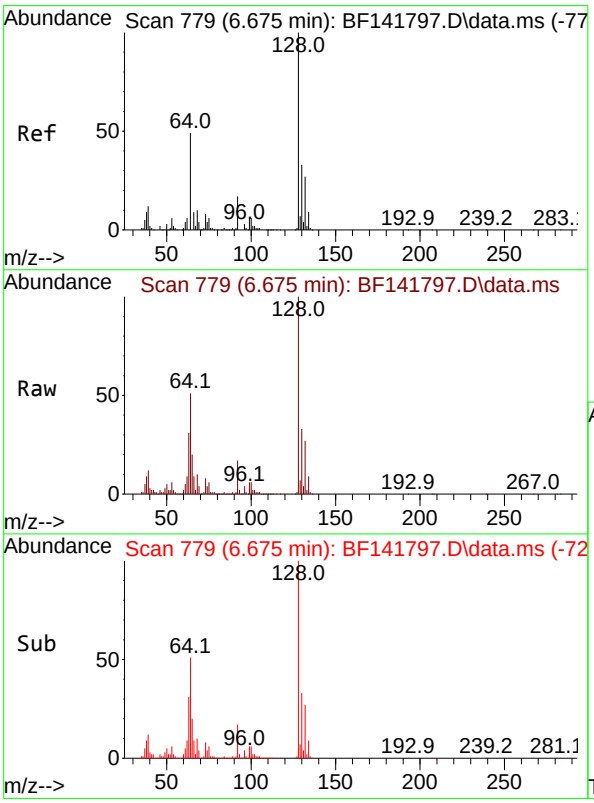
Ion	Ratio	Lower	Upper
99	100		
42	19.0	15.2	22.8
71	35.2	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

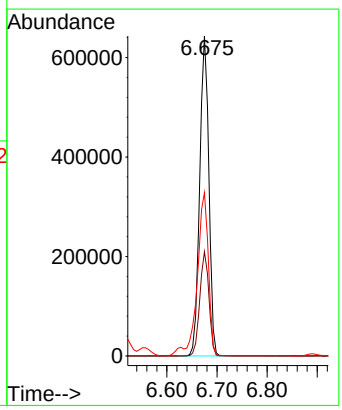
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

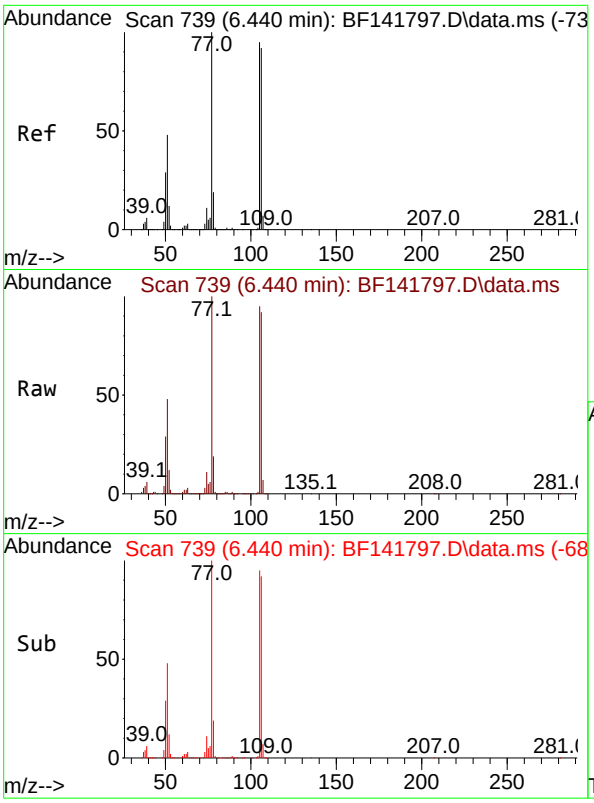


#8
2-Chlorophenol
Concen: 41.681 ng
RT: 6.675 min Scan# 779
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:128 Resp: 813316

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.6	52.6
64	51.1	31.1	71.1

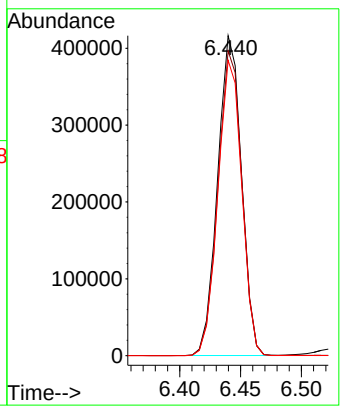




#9
Benzaldehyde
Concen: 41.423 ng
RT: 6.440 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 77 Resp: 56569

Ion	Ratio	Lower	Upper
77	100		
105	95.3	75.3	115.3
106	92.3	72.3	112.3



Instrument :
BNA_F
ClientSampleId :
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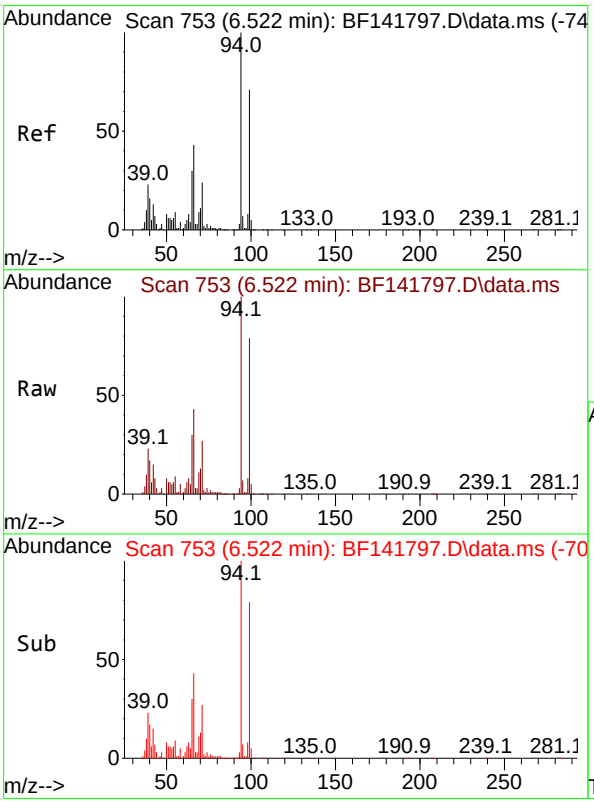
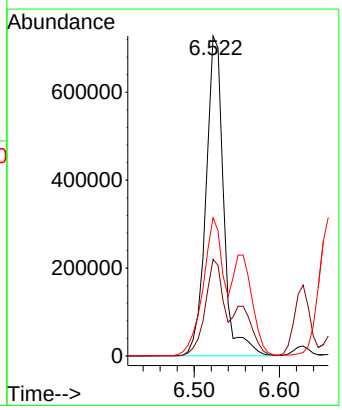
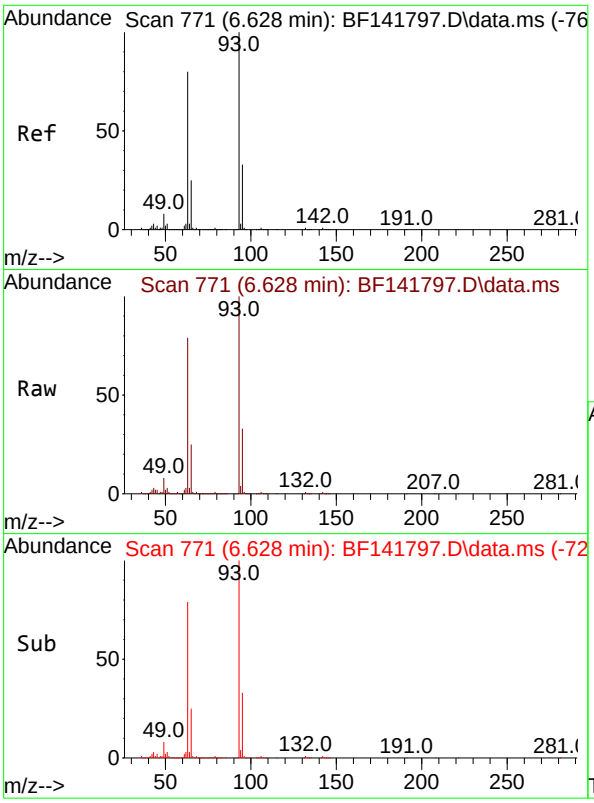


#10
Phenol
Concen: 41.904 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 94 Resp: 1048185

Ion	Ratio	Lower	Upper
94	100		
65	30.2	10.2	50.2
66	43.2	23.2	63.2

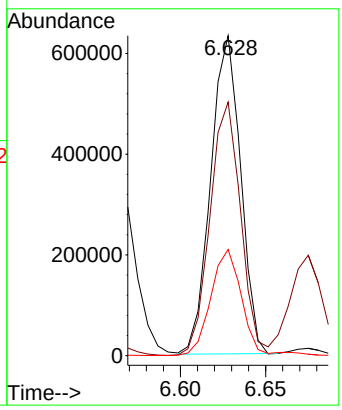




#11
bis(2-Chloroethyl)ether
Concen: 40.349 ng
RT: 6.628 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 93 Resp: 77164

Ion	Ratio	Lower	Upper
93	100		
63	79.3	59.3	99.3
95	33.2	13.2	53.2



Instrument :
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ClientSampleId :
SSTDICCC040

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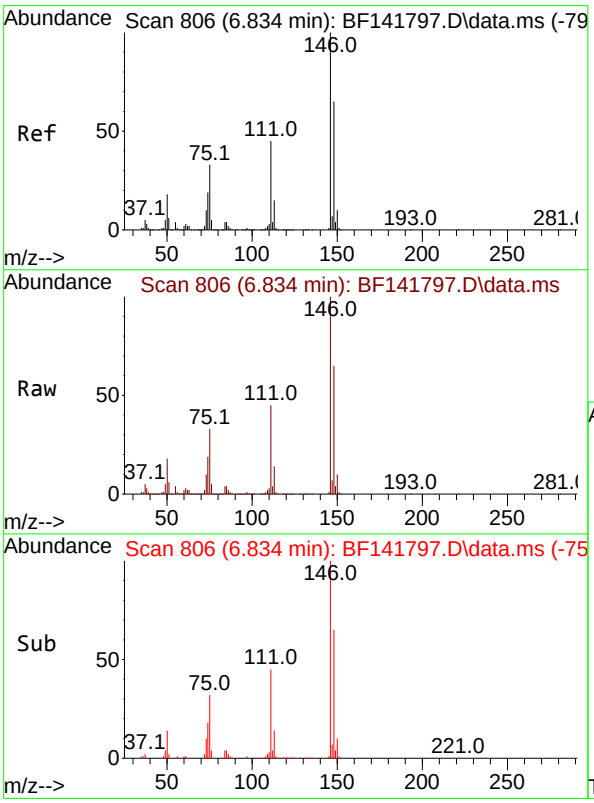
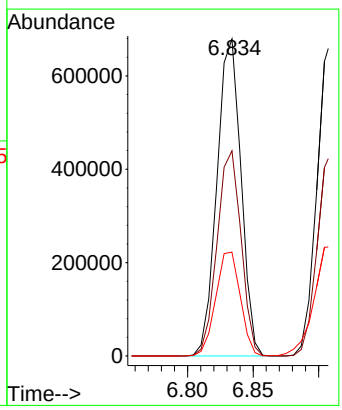
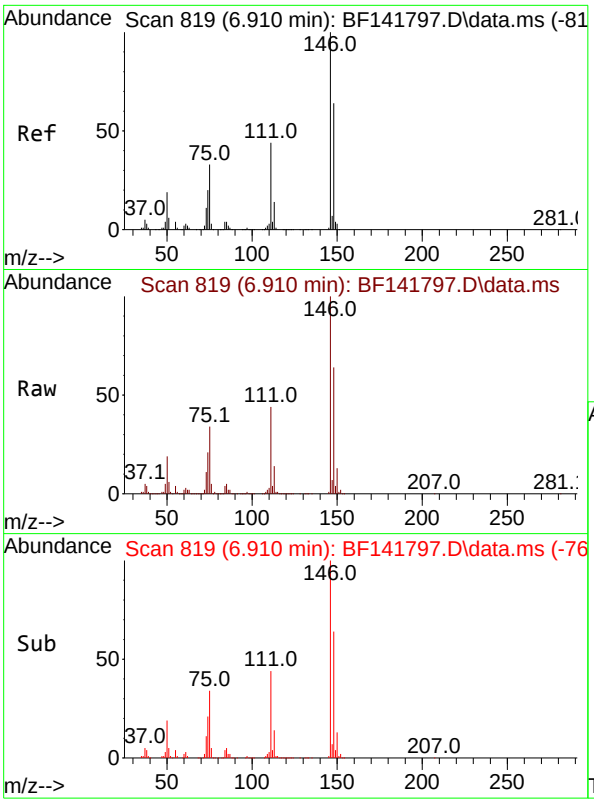


#12
1,3-Dichlorobenzene
Concen: 41.465 ng
RT: 6.834 min Scan# 806
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:146 Resp: 866494

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.8	77.6
75	32.8	26.2	39.4

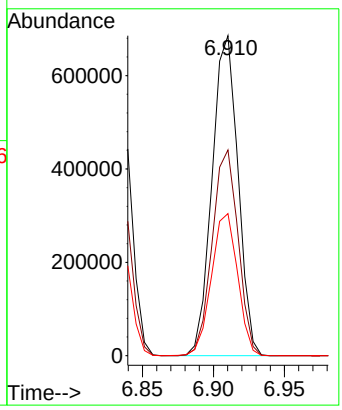




#13
1,4-Dichlorobenzene
Concen: 41.384 ng
RT: 6.910 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:146 Resp: 87135

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.4	77.2
111	44.4	35.5	53.3



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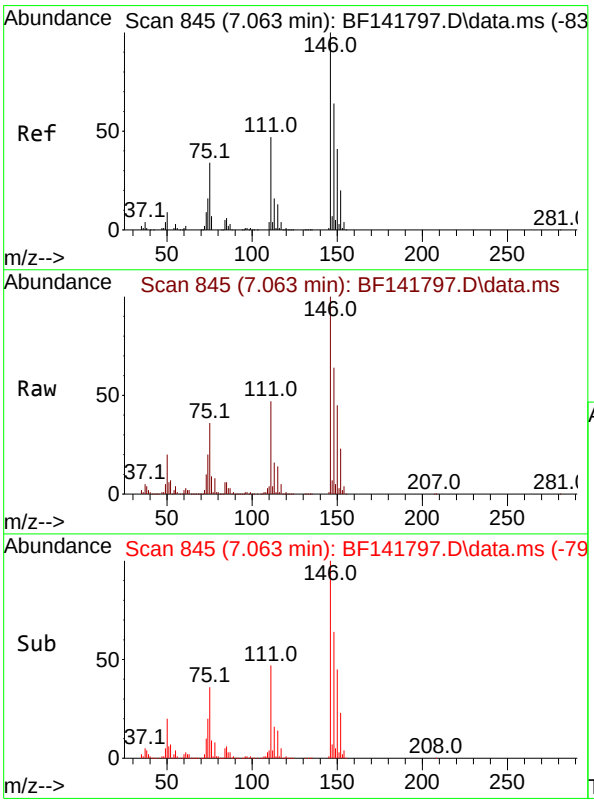
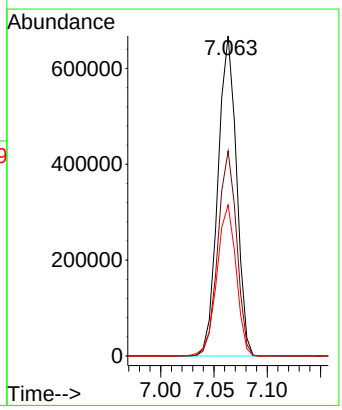
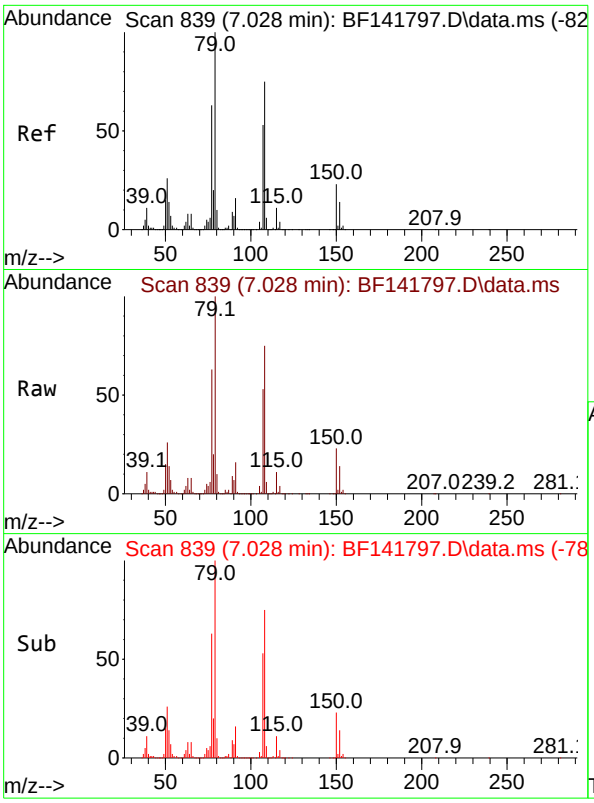


#14
1,2-Dichlorobenzene
Concen: 41.065 ng
RT: 7.063 min Scan# 845
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:146 Resp: 807407

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.2	76.8
111	47.2	37.8	56.6

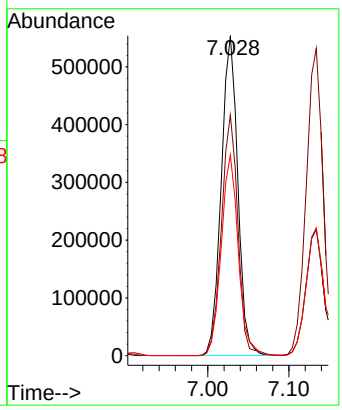




#15
Benzyl Alcohol
Concen: 41.957 ng
RT: 7.028 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 79 Resp: 78726

Ion	Ratio	Lower	Upper
79	100		
108	75.2	60.2	90.2
77	62.7	50.2	75.2



Instrument :
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ClientSampleId :
SSTDICCC040

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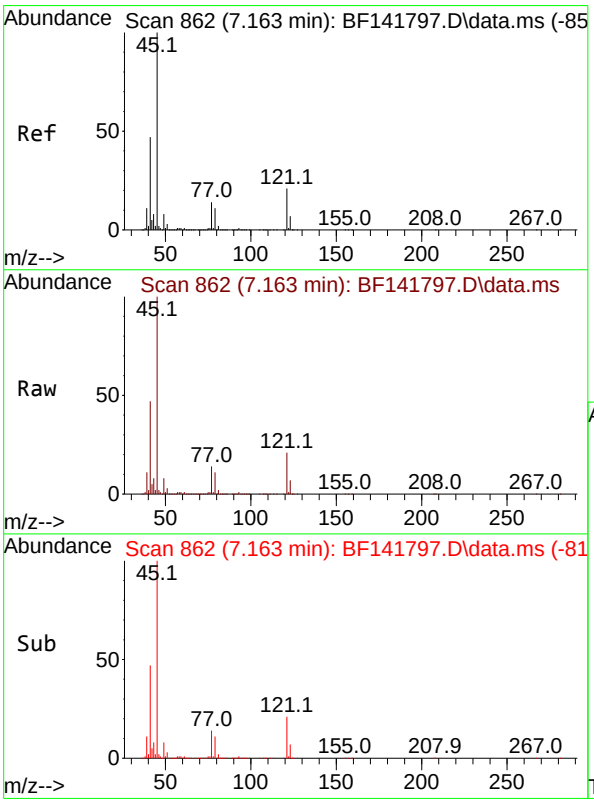
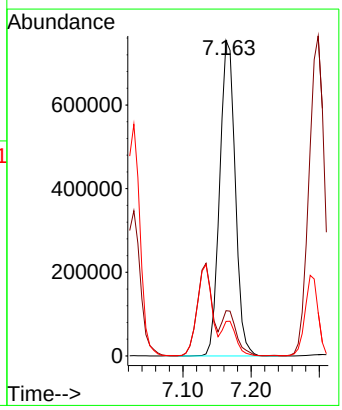
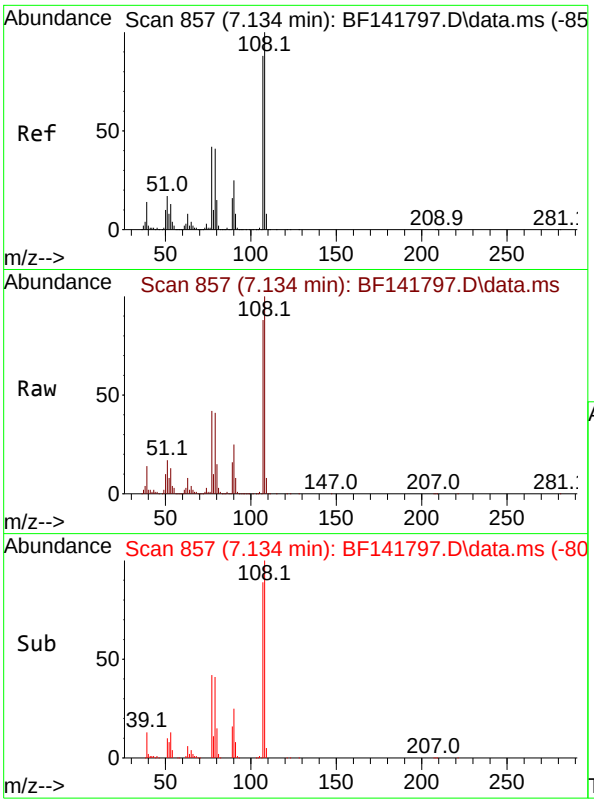


#16
2,2'-oxybis(1-Chloropropane)
Concen: 41.236 ng
RT: 7.163 min Scan# 862
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 45 Resp: 1197610

Ion	Ratio	Lower	Upper
45	100		
77	14.4	0.0	34.4
79	10.9	0.0	30.9

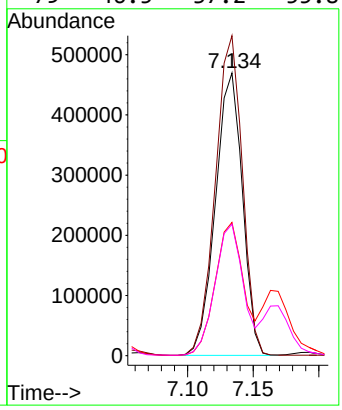




#17
2-Methylphenol
Concen: 41.635 ng
RT: 7.134 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:107 Resp: 67059

Ion	Ratio	Lower	Upper
107	100		
108	113.2	90.6	135.8
77	47.1	37.7	56.5
79	46.5	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
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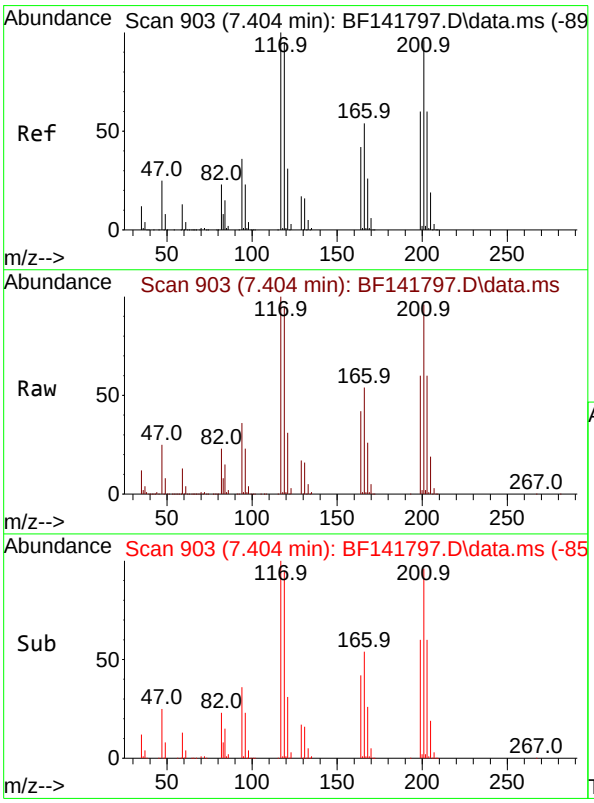
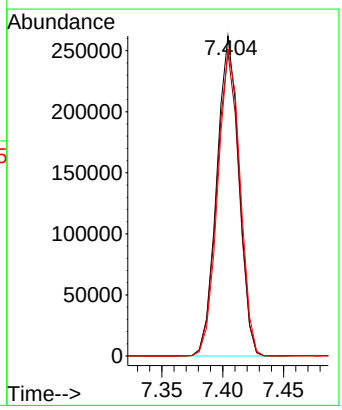
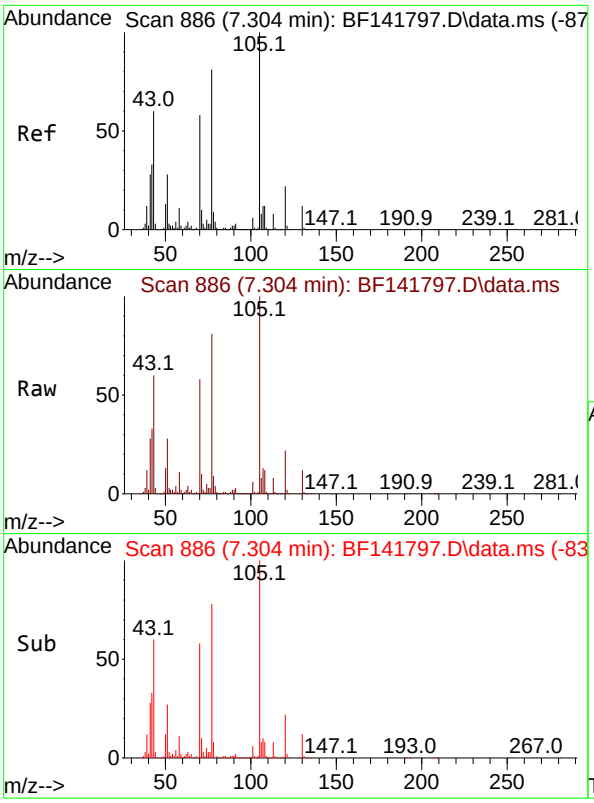


#18
Hexachloroethane
Concen: 42.223 ng
RT: 7.404 min Scan# 903
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:117 Resp: 332747

Ion	Ratio	Lower	Upper
117	100		
119	94.8	75.8	113.8
201	95.9	76.7	115.1

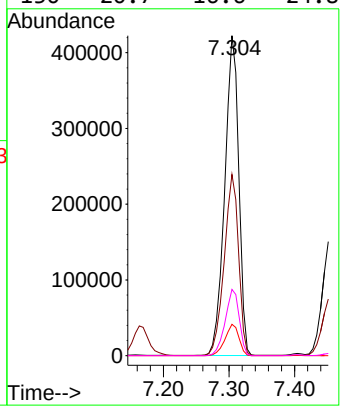




#19
n-Nitroso-di-n-propylamine
Concen: 40.586 ng
RT: 7.304 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 70 Resp: 62639

Ion	Ratio	Lower	Upper
70	100		
42	56.7	45.4	68.0
101	9.8	7.8	11.8
130	20.7	16.6	24.8



Instrument :
BNA_F
ClientSampleId :
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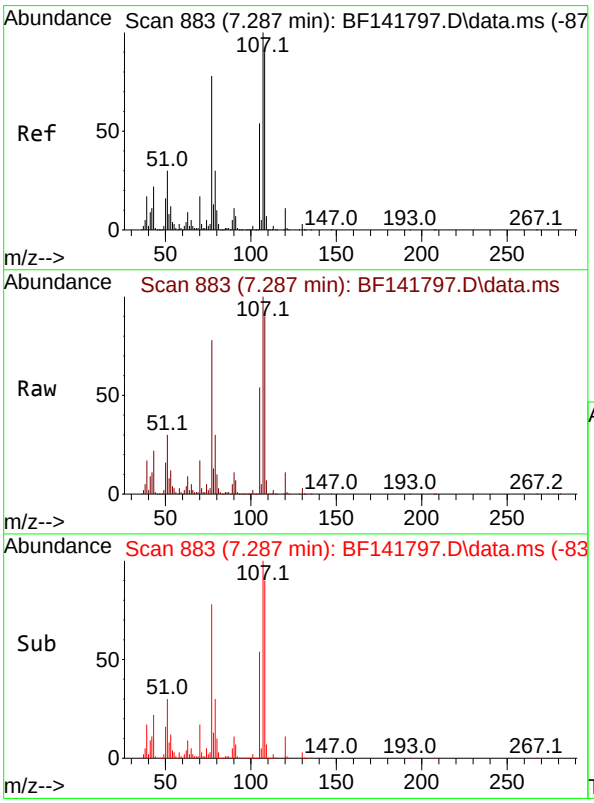
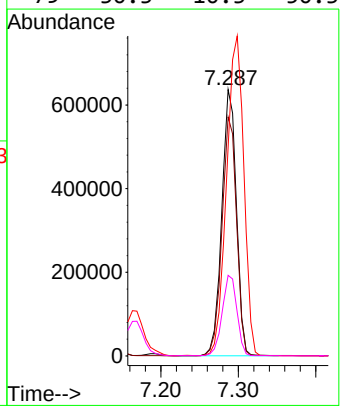
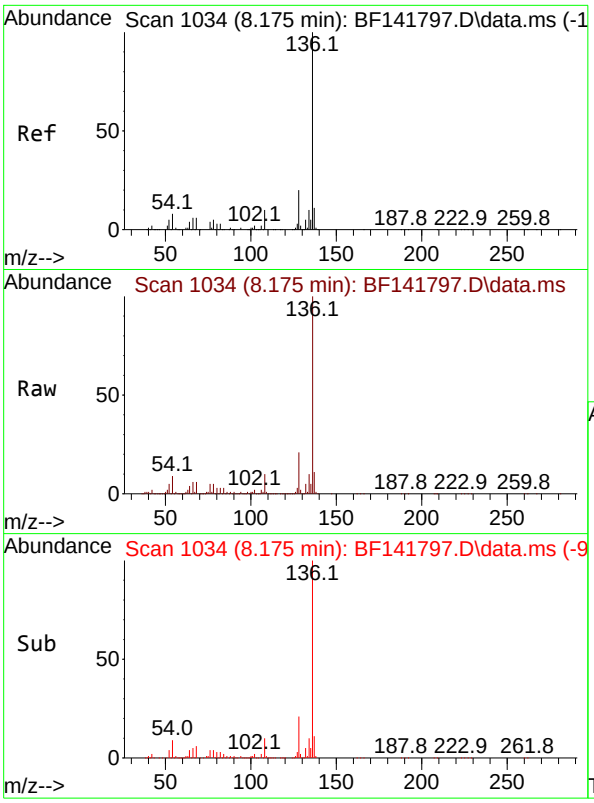


#20
3+4-Methylphenols
Concen: 41.411 ng
RT: 7.287 min Scan# 883
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:107 Resp: 830533

Ion	Ratio	Lower	Upper
107	100		
108	89.7	69.7	109.7
77	78.3	58.3	98.3
79	30.3	10.3	50.3





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:136 Resp: 115571

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	8.6	6.9	10.3
68	6.4	5.1	7.7

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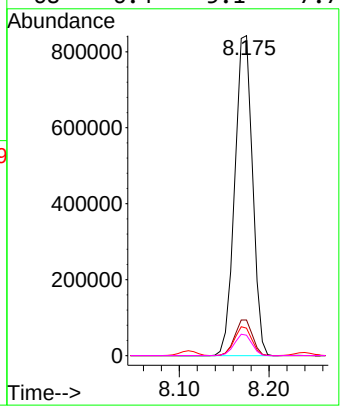
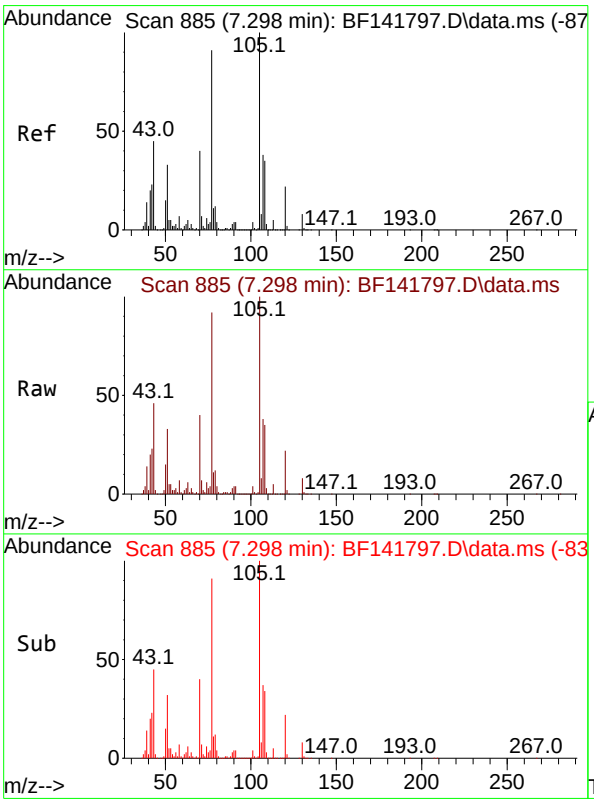
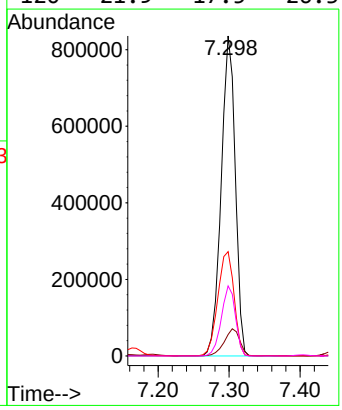


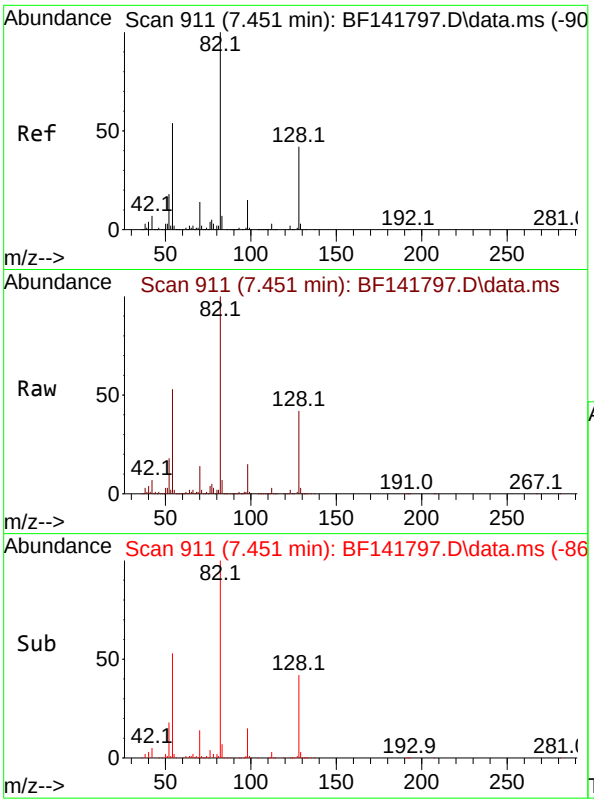


#22
Acetophenone
Concen: 40.776 ng
RT: 7.298 min Scan# 885
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:105 Resp: 1147737

Ion	Ratio	Lower	Upper
105	100		
71	6.7	5.4	8.0
51	32.6	26.1	39.1
120	21.9	17.5	26.3

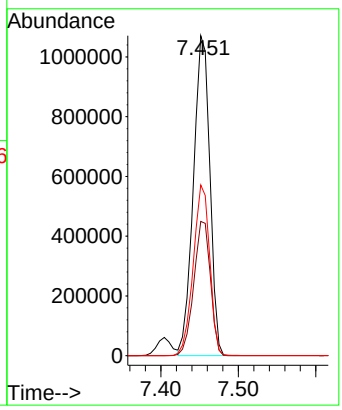




#23
Nitrobenzene-d5
Concen: 87.263 ng
RT: 7.451 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 82 Resp: 157776

Ion	Ratio	Lower	Upper
82	100		
128	41.9	33.5	50.3
54	53.4	42.7	64.1



Instrument :
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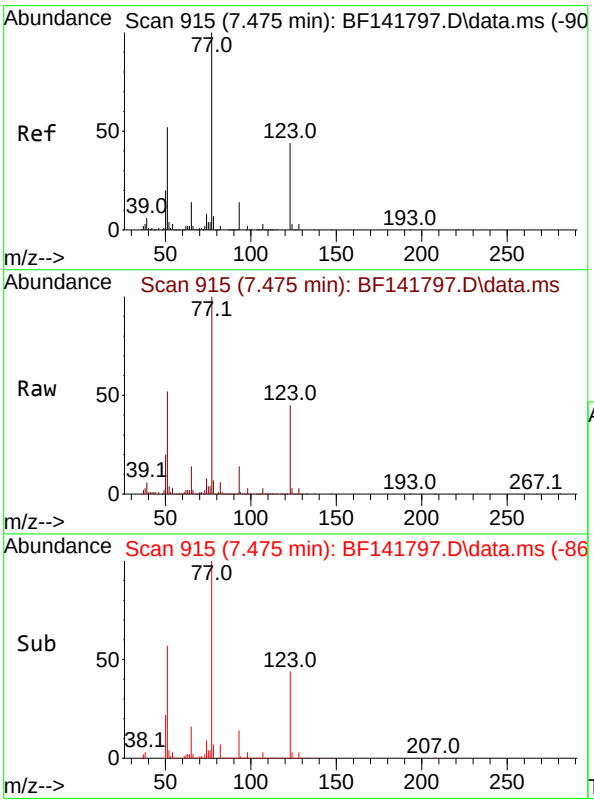
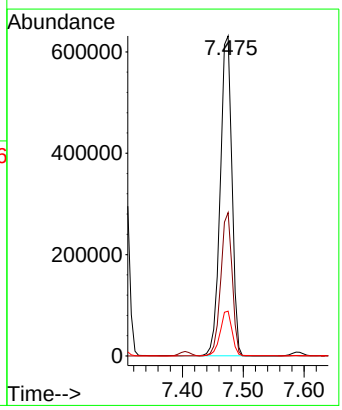
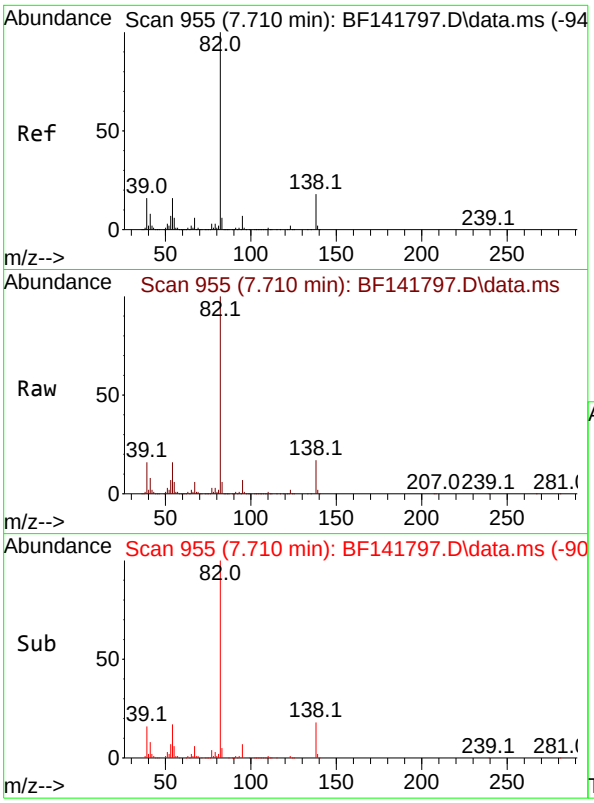


#24
Nitrobenzene
Concen: 43.379 ng
RT: 7.475 min Scan# 915
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 77 Resp: 839887

Ion	Ratio	Lower	Upper
77	100		
123	44.8	35.8	53.8
65	14.0	11.2	16.8

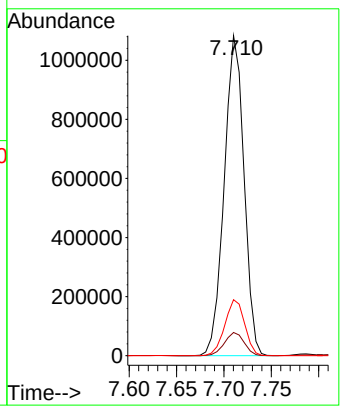




#25
Isophorone
Concen: 40.569 ng
RT: 7.710 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 82 Resp: 157585

Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.8
138	17.5	14.0	21.0



Instrument :
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ClientSampleId :
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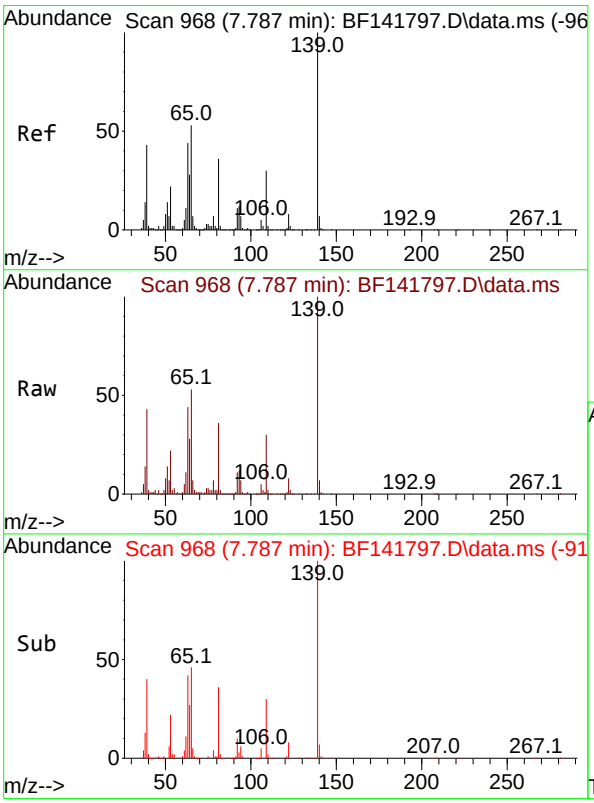
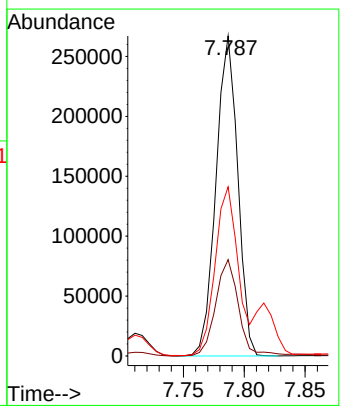
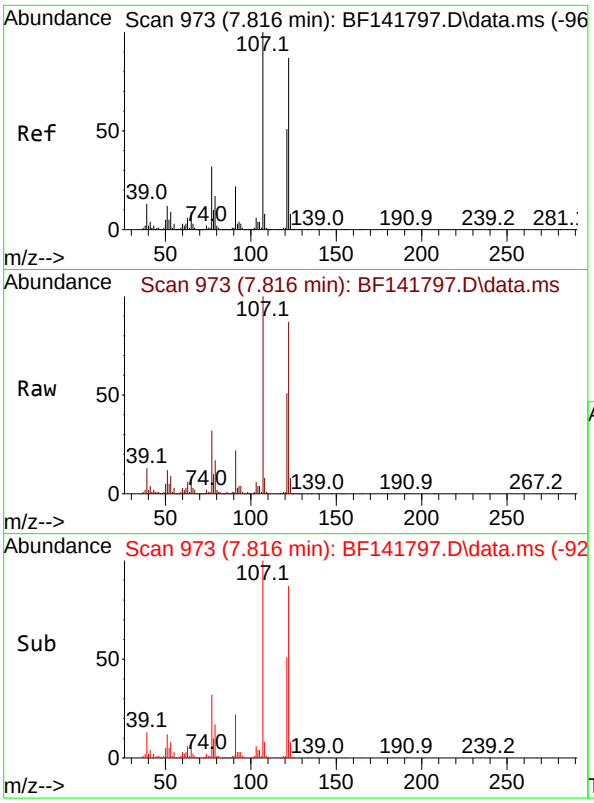


#26
2-Nitrophenol
Concen: 39.357 ng
RT: 7.787 min Scan# 968
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:139 Resp: 332584

Ion	Ratio	Lower	Upper
139	100		
109	30.1	24.1	36.1
65	52.9	42.3	63.5

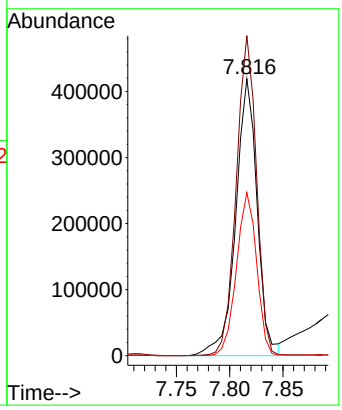




#27
2,4-Dimethylphenol
Concen: 41.191 ng
RT: 7.816 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:122 Resp: 58815

Ion	Ratio	Lower	Upper
122	100		
107	115.6	92.5	138.7
121	58.9	47.1	70.7



Instrument :
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ClientSampleId :
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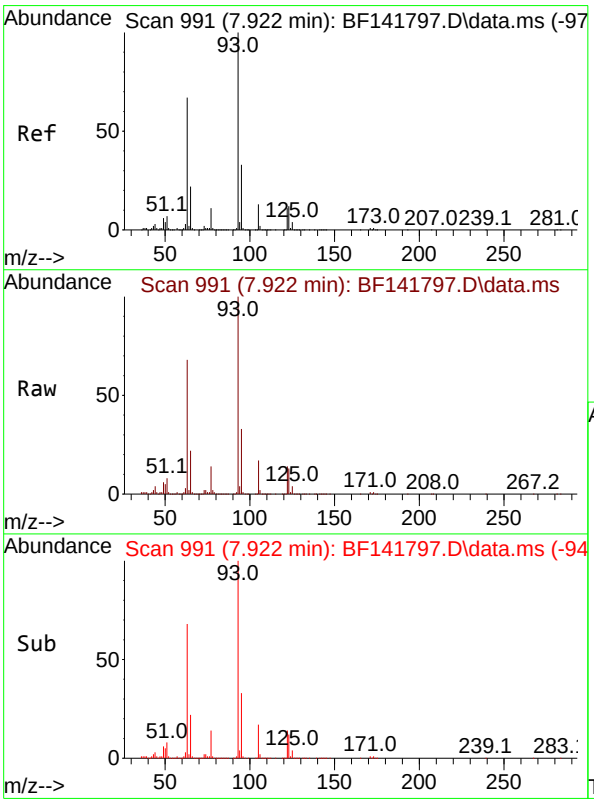
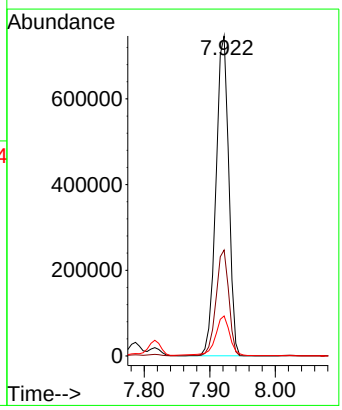
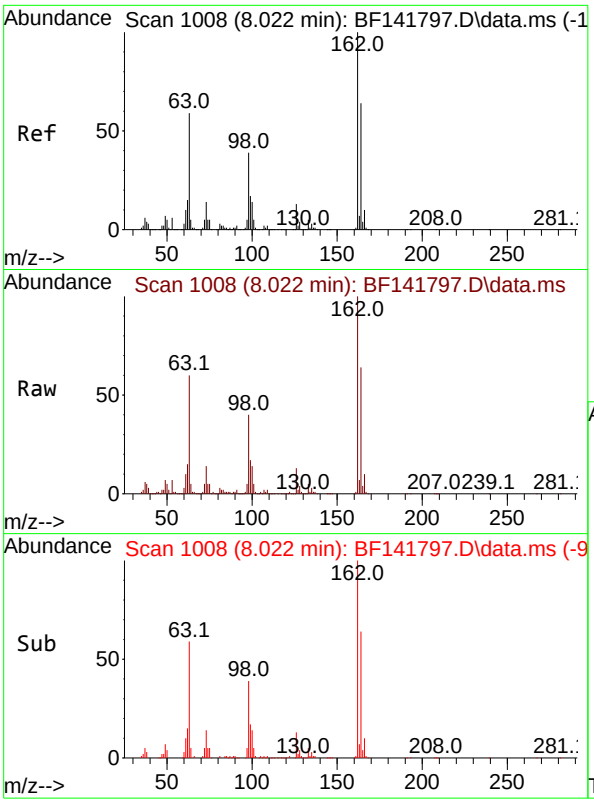


#28
bis(2-Chloroethoxy)methane
Concen: 40.624 ng
RT: 7.922 min Scan# 991
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 93 Resp: 1006606

Ion	Ratio	Lower	Upper
93	100		
95	33.1	26.5	39.7
123	12.5	10.0	15.0

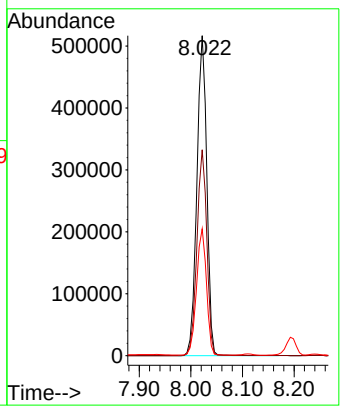




#29
2,4-Dichlorophenol
Concen: 41.819 ng
RT: 8.022 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:162 Resp: 68886

Ion	Ratio	Lower	Upper
162	100		
164	64.3	44.3	84.3
98	39.6	19.6	59.6



Instrument :
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ClientSampleId :
SSTDICCC040

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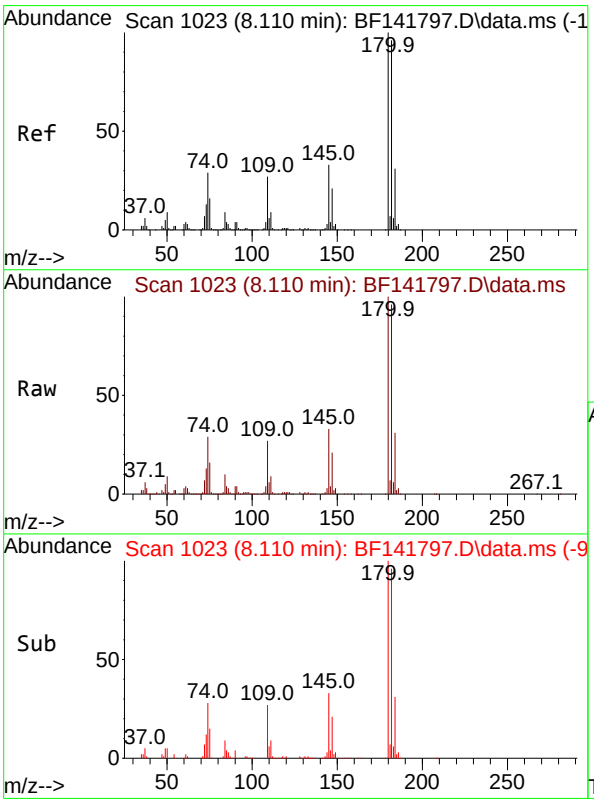
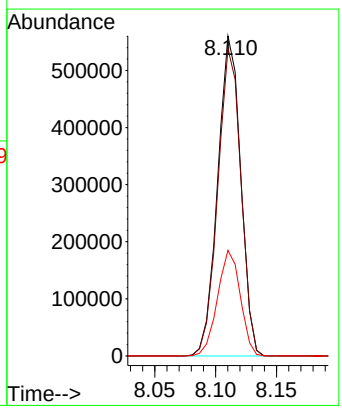
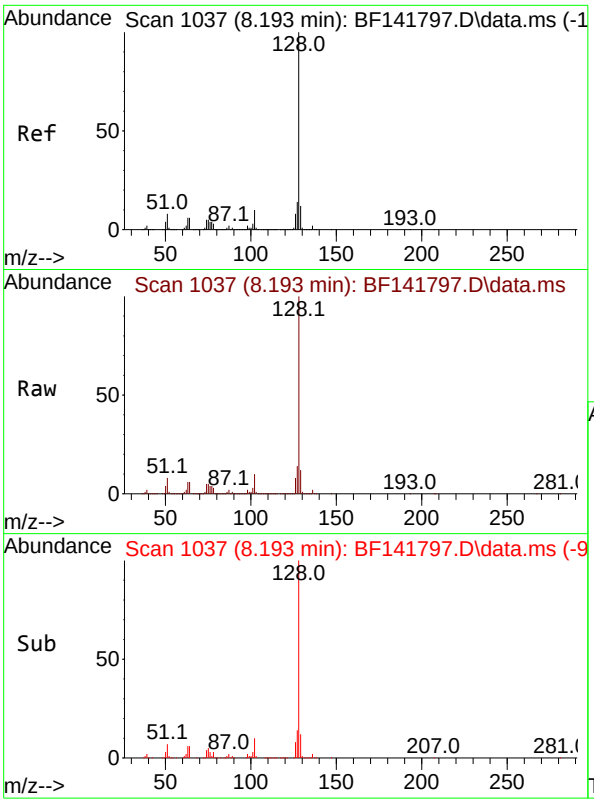


#30
1,2,4-Trichlorobenzene
Concen: 40.863 ng
RT: 8.110 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:180 Resp: 737573

Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.8	115.2
145	33.0	26.4	39.6

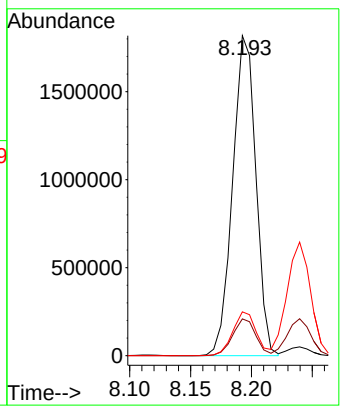




#31
Naphthalene
Concen: 40.588 ng
RT: 8.193 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:128 Resp: 241091

Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.2	13.8
127	13.7	11.0	16.4



Instrument :
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ClientSampleId :
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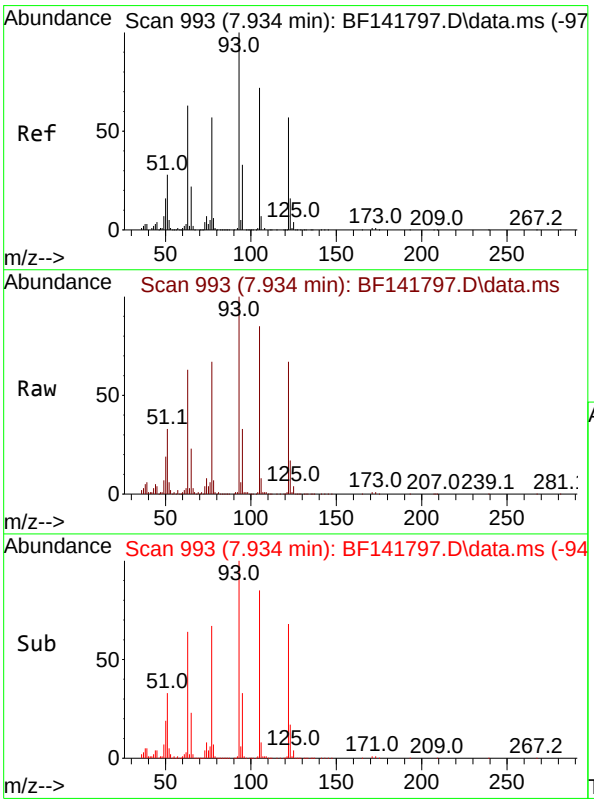
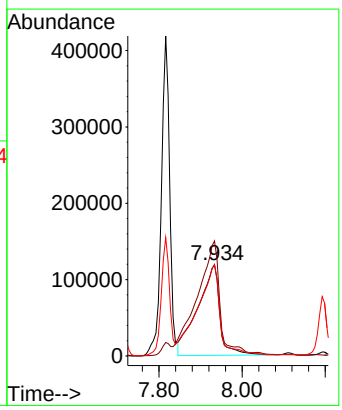
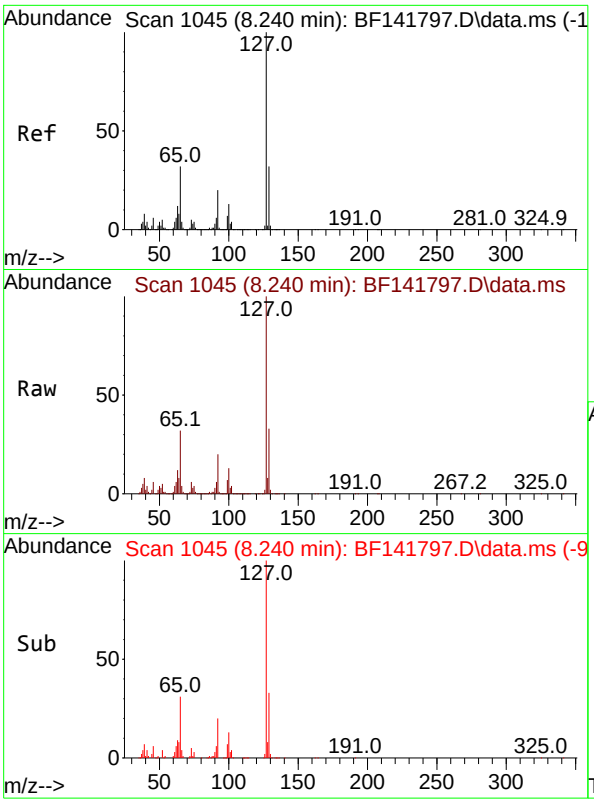


#32
Benzoic acid
Concen: 38.870 ng
RT: 7.934 min Scan# 993
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:122 Resp: 442477

Ion	Ratio	Lower	Upper
122	100		
105	125.8	105.8	145.8
77	99.9	79.9	119.9

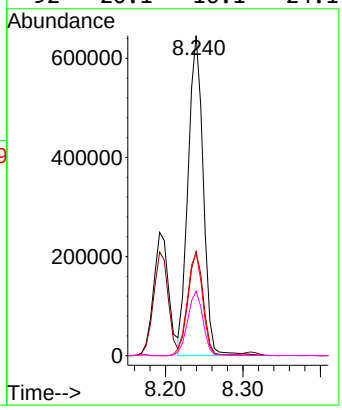




#33
4-Chloroaniline
Concen: 40.271 ng
RT: 8.240 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:127 Resp: 87708

Ion	Ratio	Lower	Upper
127	100		
129	32.6	26.1	39.1
65	32.1	25.7	38.5
92	20.1	16.1	24.1



Instrument :
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ClientSampleId :
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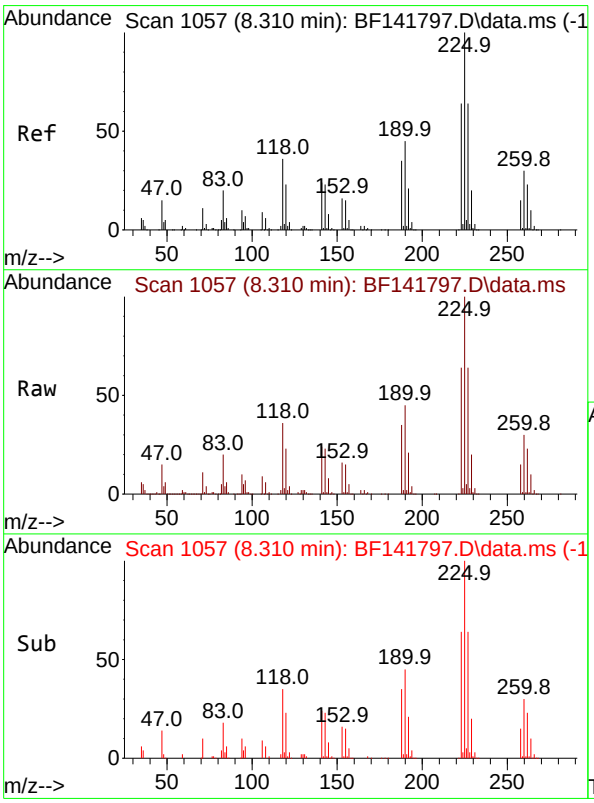
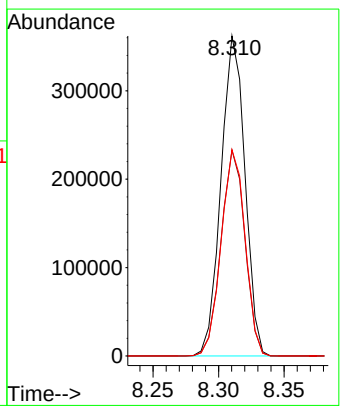
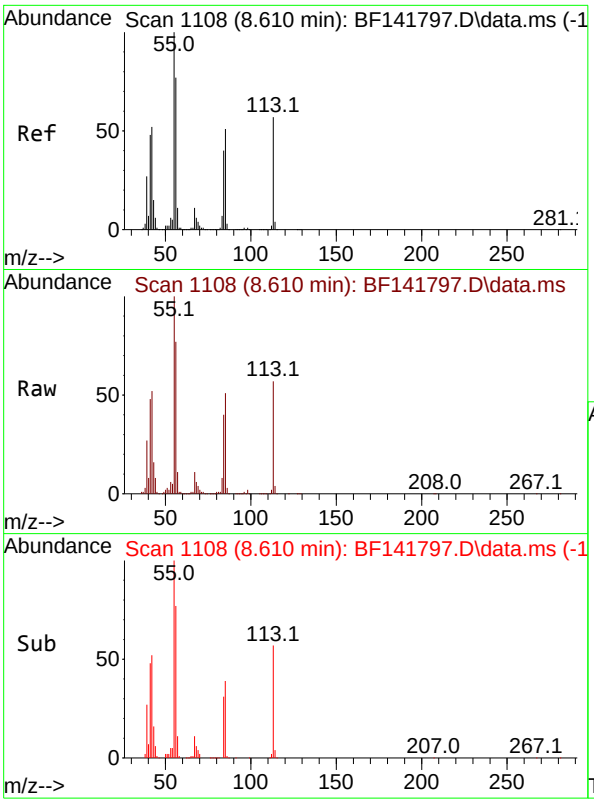


#34
Hexachlorobutadiene
Concen: 40.952 ng
RT: 8.310 min Scan# 1057
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:225 Resp: 459338

Ion	Ratio	Lower	Upper
225	100		
223	64.3	51.4	77.2
227	64.5	51.6	77.4





#35
Caprolactam
Concen: 41.695 ng m
RT: 8.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:113 Resp: 21133

Ion	Ratio	Lower	Upper
113	100		
55	175.6	155.6	195.6
56	134.6	114.6	154.6

Instrument :
BNA_F
ClientSampleId :
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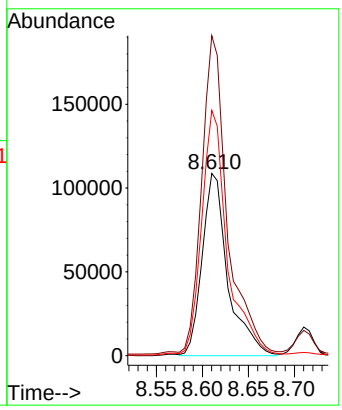
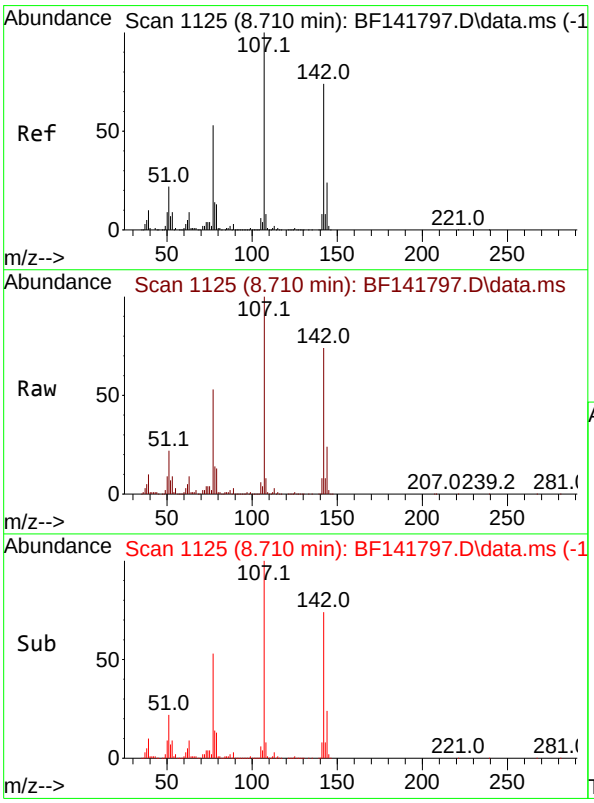
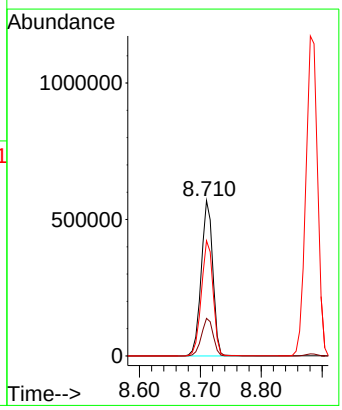


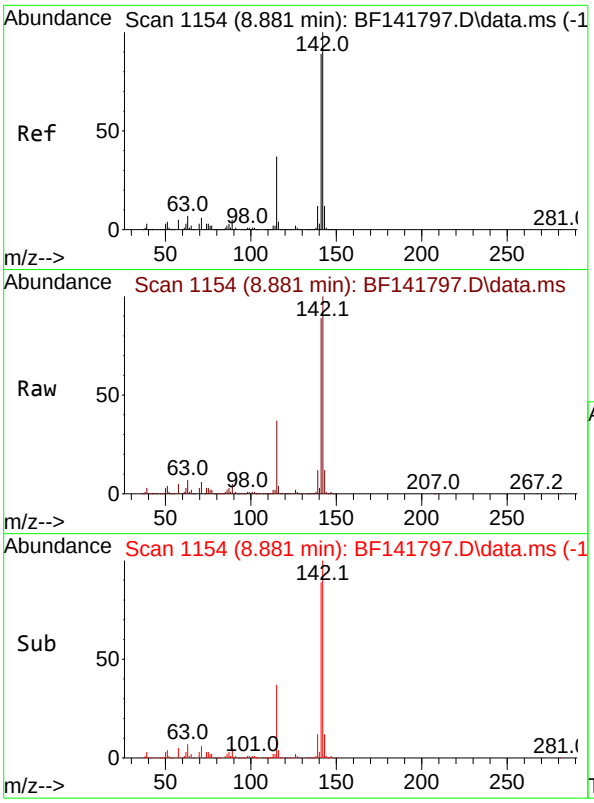


#36
4-Chloro-3-methylphenol
Concen: 41.148 ng
RT: 8.710 min Scan# 1125
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:107 Resp: 752961

Ion	Ratio	Lower	Upper
107	100		
144	24.2	19.4	29.0
142	74.2	59.4	89.0

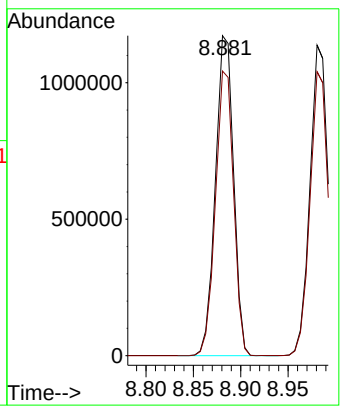




#37
2-Methylnaphthalene
Concen: 40.179 ng
RT: 8.881 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:142 Resp: 156542

Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.1	106.7



Instrument :
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ClientSampleId :
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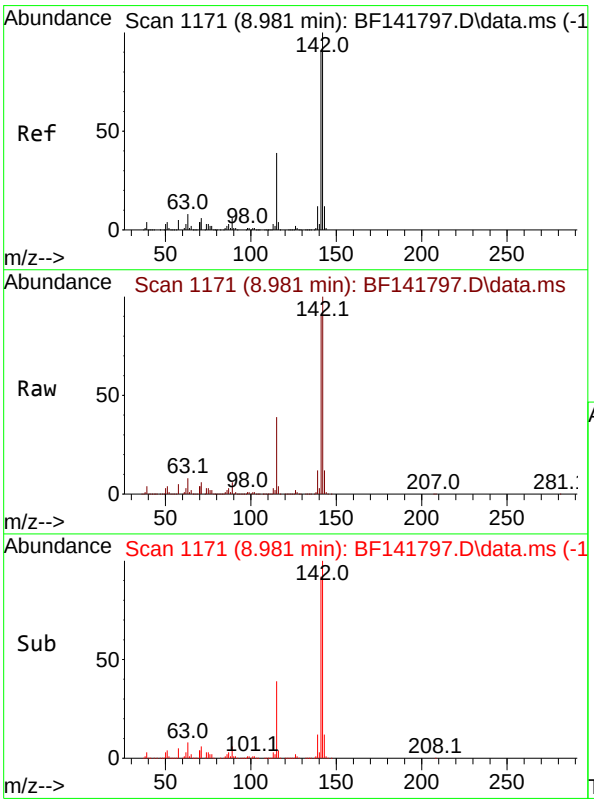
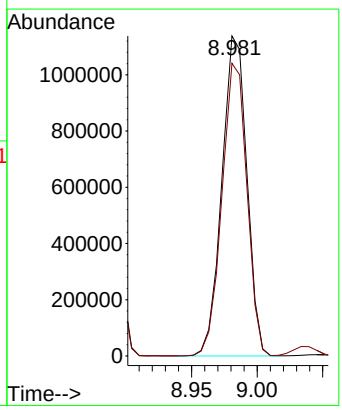
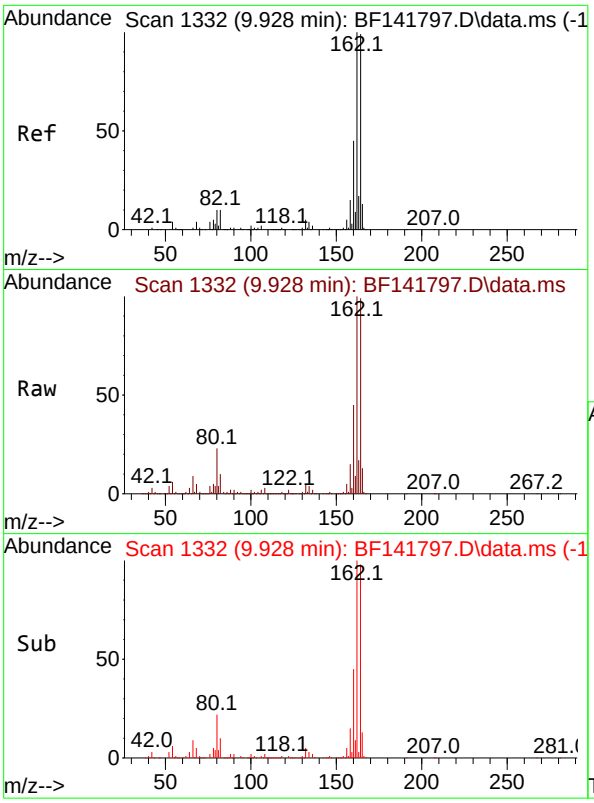


#38
1-Methylnaphthalene
Concen: 40.286 ng
RT: 8.981 min Scan# 1171
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:142 Resp: 1506039

Ion	Ratio	Lower	Upper
142	100		
141	91.4	73.1	109.7

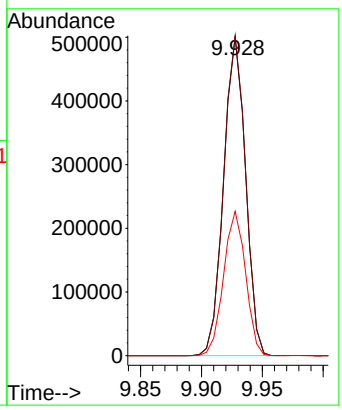




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:164 Resp: 62524

Ion	Ratio	Lower	Upper
164	100		
162	100.7	80.6	120.8
160	45.4	36.3	54.5



Instrument :
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ClientSampleId :
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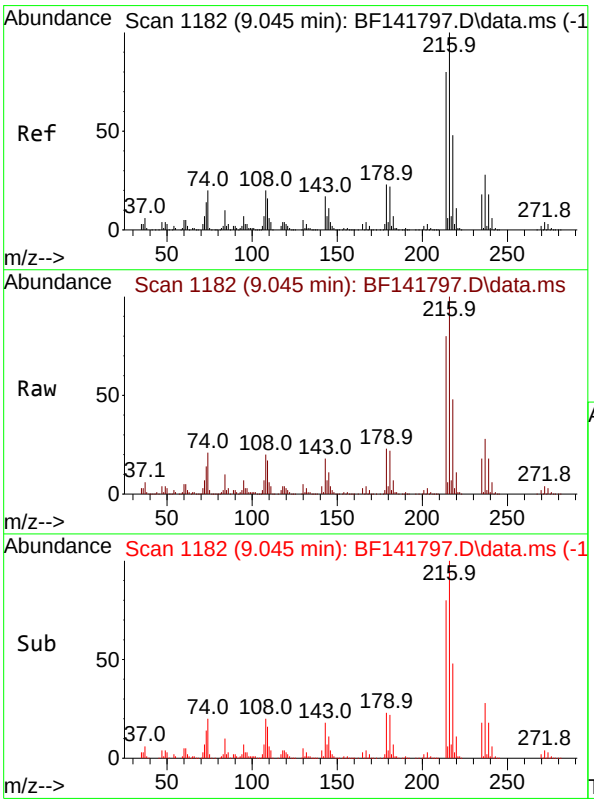
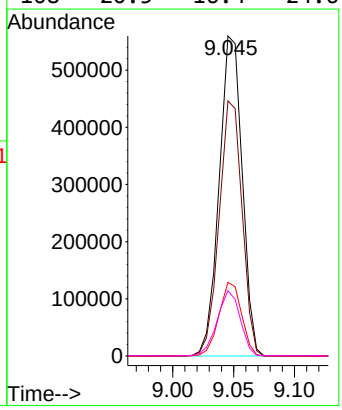
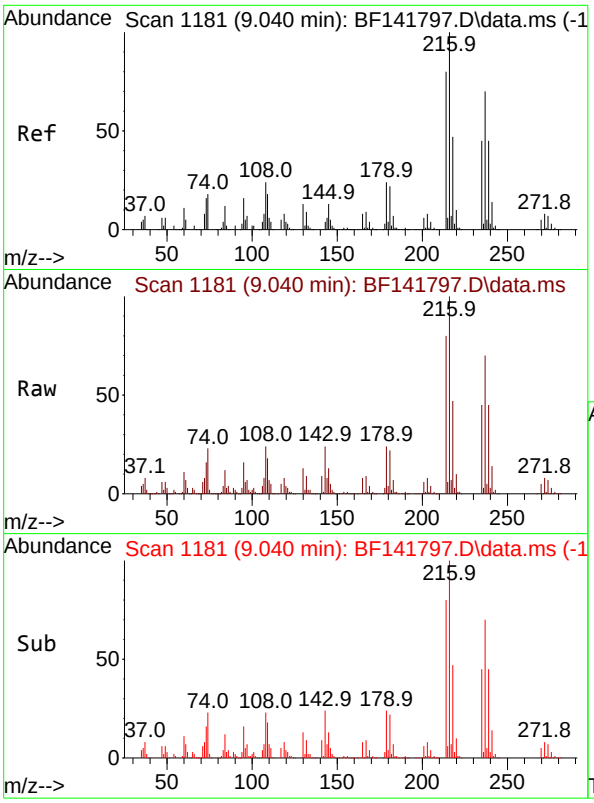


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.786 ng
RT: 9.045 min Scan# 1182
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:216 Resp: 736508

Ion	Ratio	Lower	Upper
216	100		
214	79.4	63.5	95.3
179	22.6	18.1	27.1
108	20.5	16.4	24.6

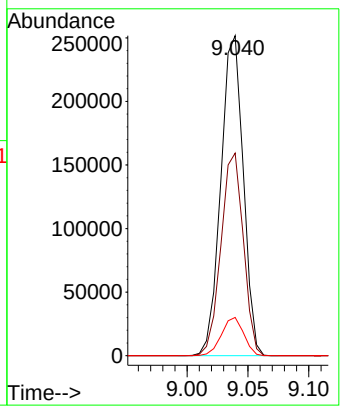




#41
Hexachlorocyclopentadiene
Concen: 42.882 ng
RT: 9.040 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:237 Resp: 32316

Ion	Ratio	Lower	Upper
237	100		
235	63.3	43.3	83.3
272	11.9	0.0	31.9



Instrument :
BNA_F
ClientSampleId :
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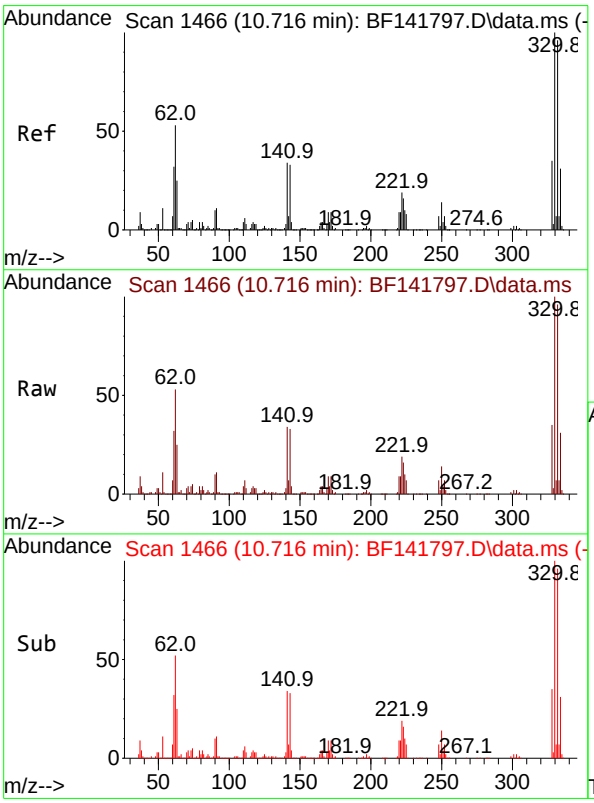
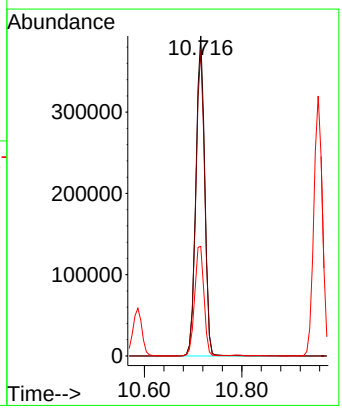
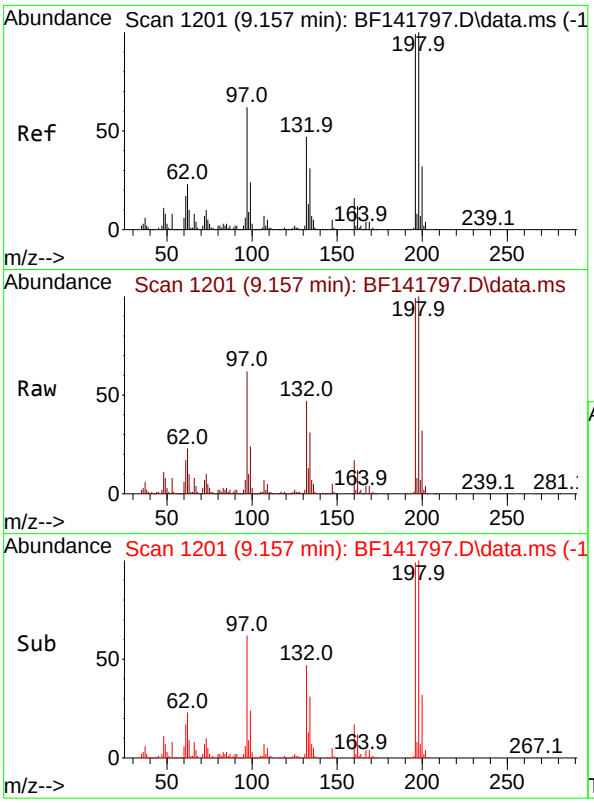


#42
2,4,6-Tribromophenol
Concen: 84.959 ng
RT: 10.716 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:330 Resp: 498702

Ion	Ratio	Lower	Upper
330	100		
332	95.8	76.6	115.0
141	36.2	29.0	43.4

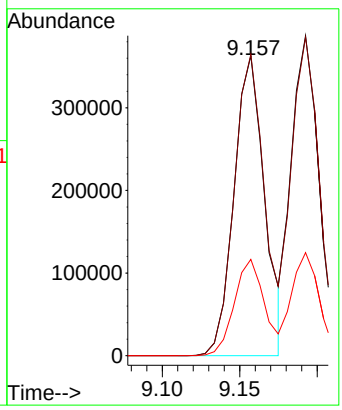




#43
2,4,6-Trichlorophenol
Concen: 42.623 ng
RT: 9.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:196 Resp: 49718

Ion	Ratio	Lower	Upper
196	100		
198	100.5	80.4	120.6
200	32.1	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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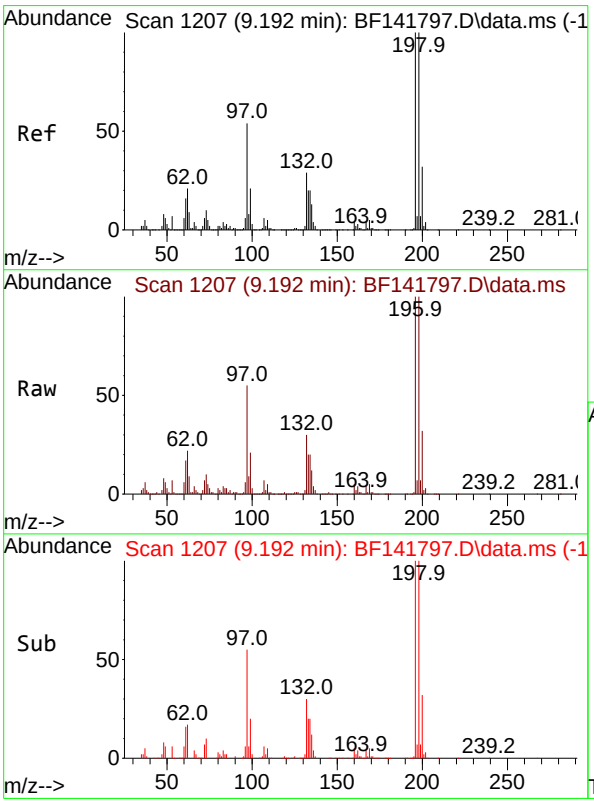
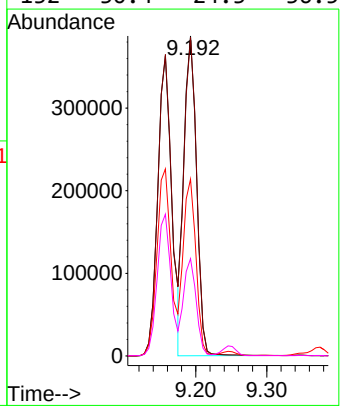
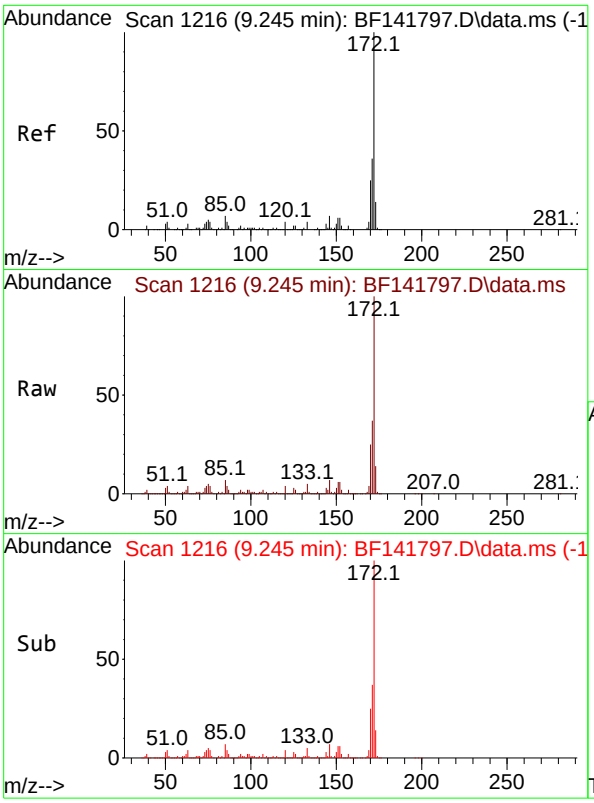


#44
2,4,5-Trichlorophenol
Concen: 41.448 ng
RT: 9.192 min Scan# 1207
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:196 Resp: 478749

Ion	Ratio	Lower	Upper
196	100		
198	99.6	79.7	119.5
97	55.2	44.2	66.2
132	30.4	24.3	36.5

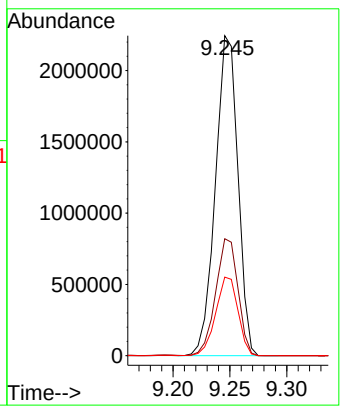




#45
2-Fluorobiphenyl
Concen: 79.348 ng
RT: 9.245 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:172 Resp: 309407

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.2	43.8
170	24.6	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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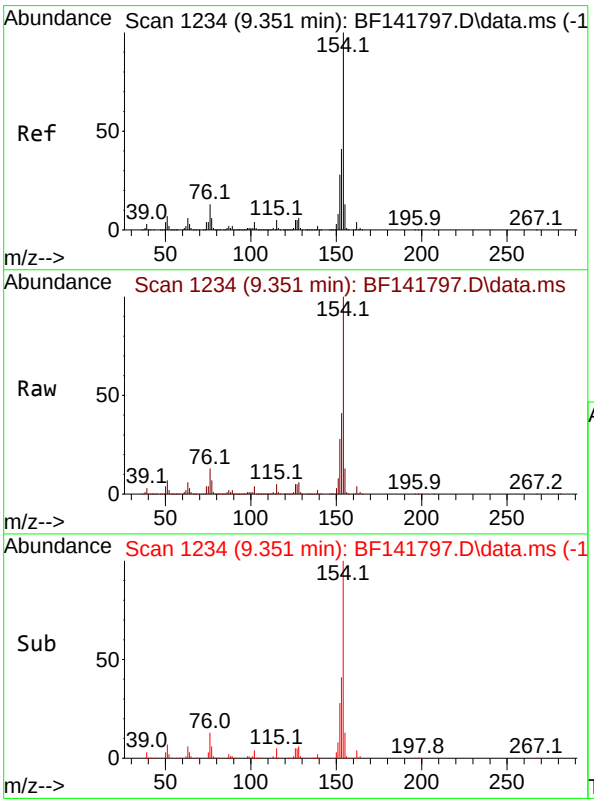
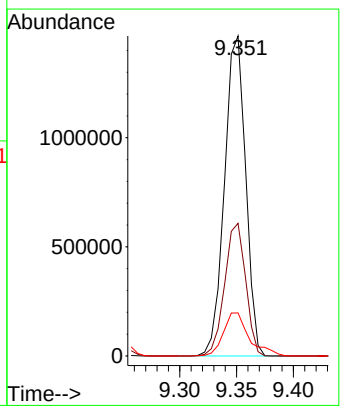
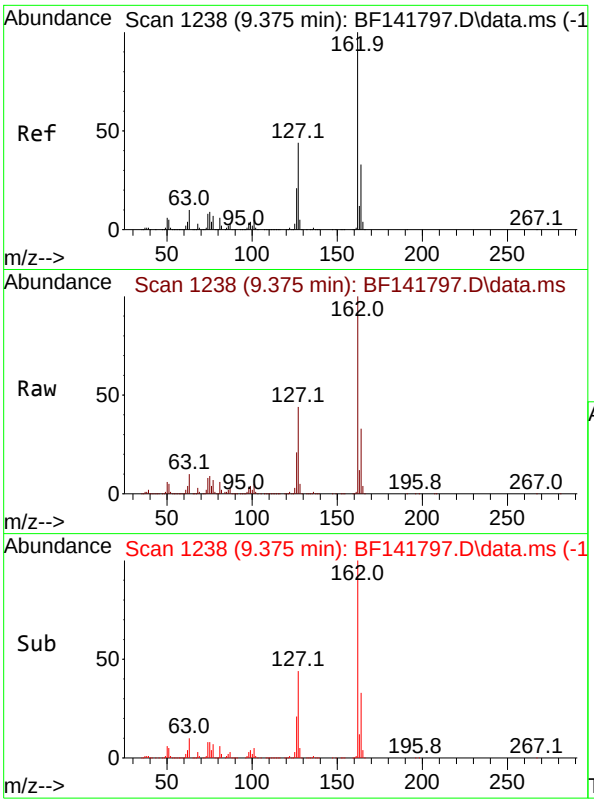


#46
1,1'-Biphenyl
Concen: 39.917 ng
RT: 9.351 min Scan# 1234
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:154 Resp: 1899694

Ion	Ratio	Lower	Upper
154	100		
153	41.4	21.4	61.4
76	13.4	0.0	33.4

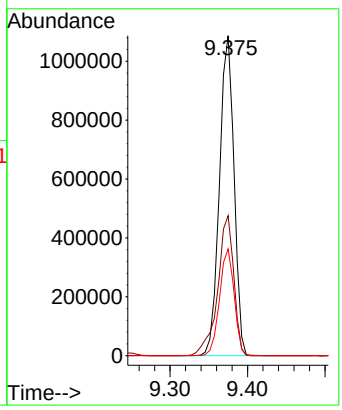




#47
2-Chloronaphthalene
Concen: 40.402 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:162 Resp: 141914

Ion	Ratio	Lower	Upper
162	100		
127	43.8	35.0	52.6
164	33.3	26.6	40.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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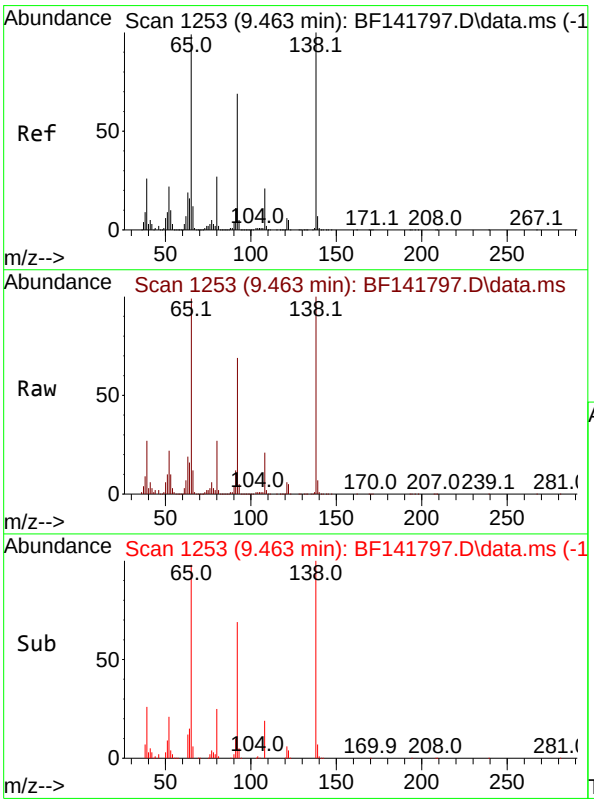
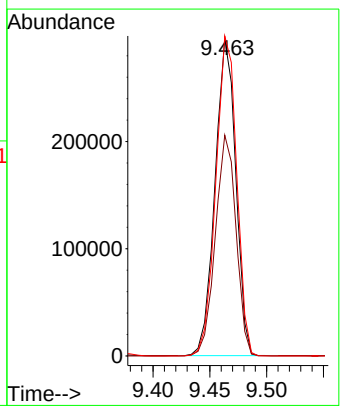
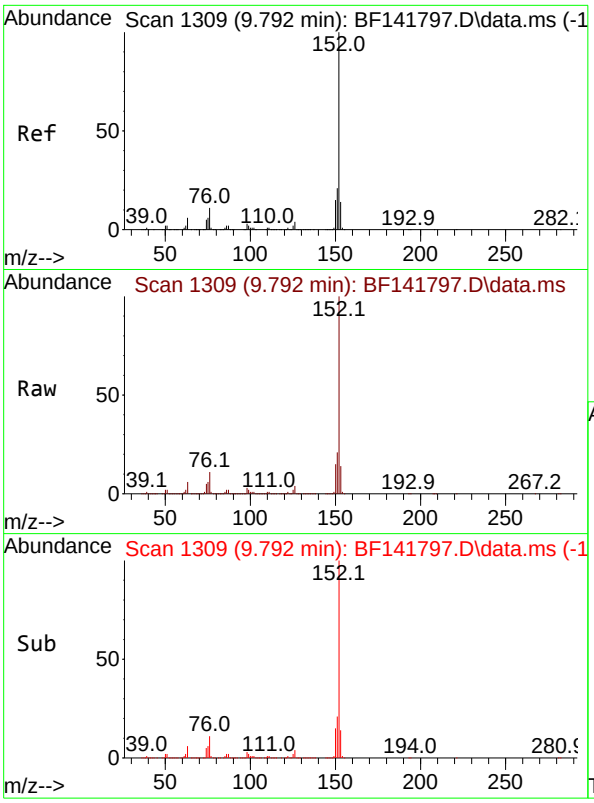


#48
2-Nitroaniline
Concen: 39.827 ng
RT: 9.463 min Scan# 1253
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 65 Resp: 375120

Ion	Ratio	Lower	Upper
65	100		
92	69.6	55.7	83.5
138	100.8	80.6	121.0





#49
Acenaphthylene
Concen: 40.629 ng
RT: 9.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 213972

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	24.8
153	14.0	11.2	16.8

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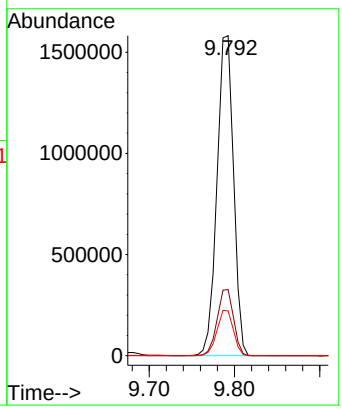
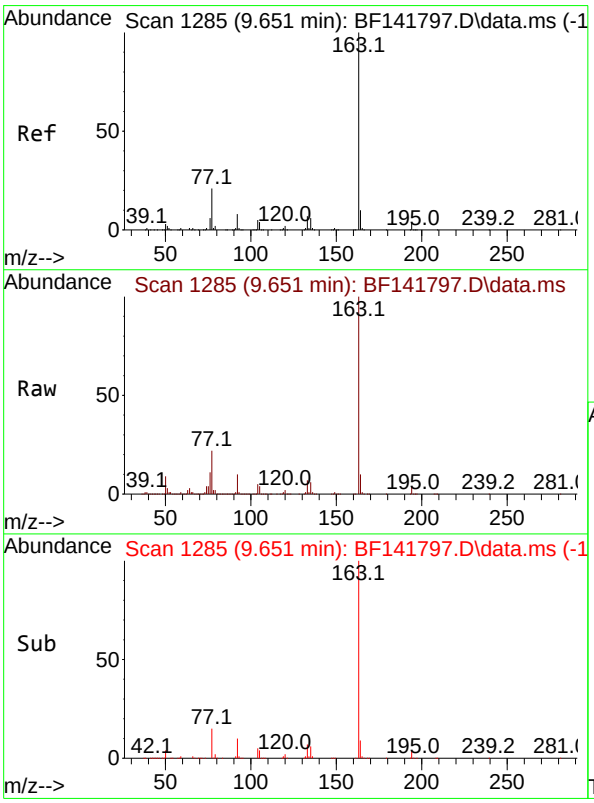
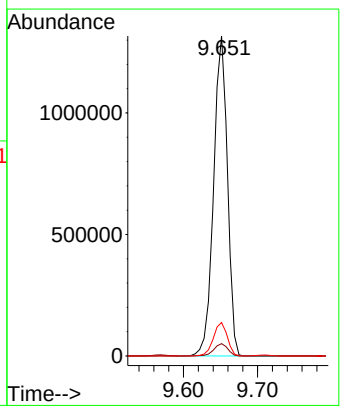


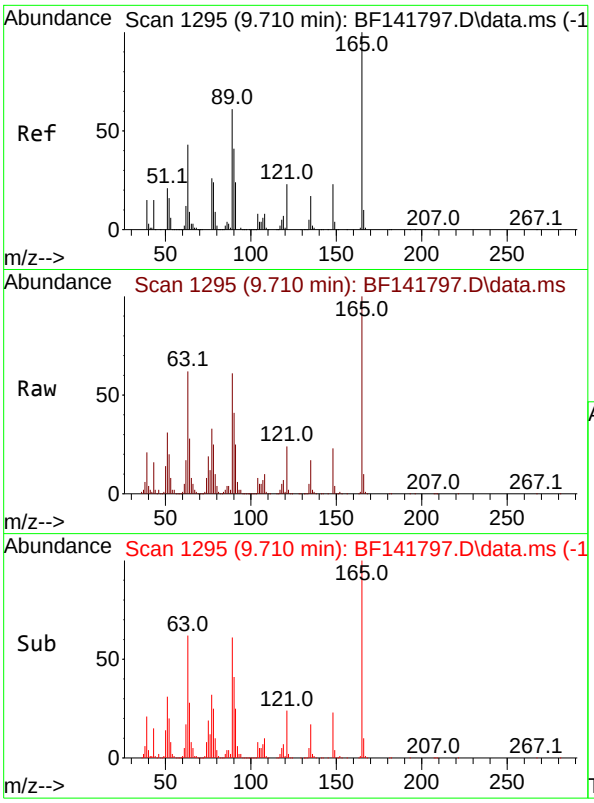


#50
Dimethylphthalate
Concen: 40.710 ng
RT: 9.651 min Scan# 1285
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:163 Resp: 1704601

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.5	8.4	12.6

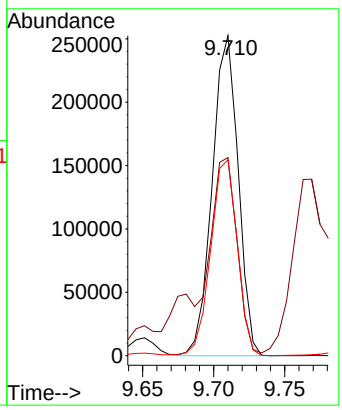




#51
2,6-Dinitrotoluene
Concen: 40.557 ng
RT: 9.710 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:165 Resp: 32112

Ion	Ratio	Lower	Upper
165	100		
63	61.9	49.5	74.3
89	61.2	49.0	73.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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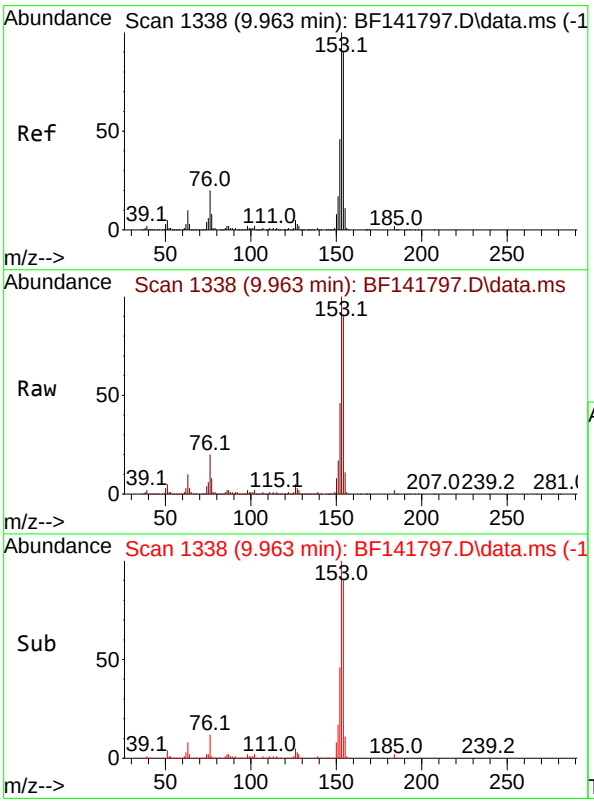
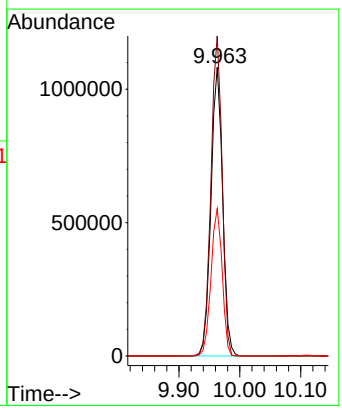
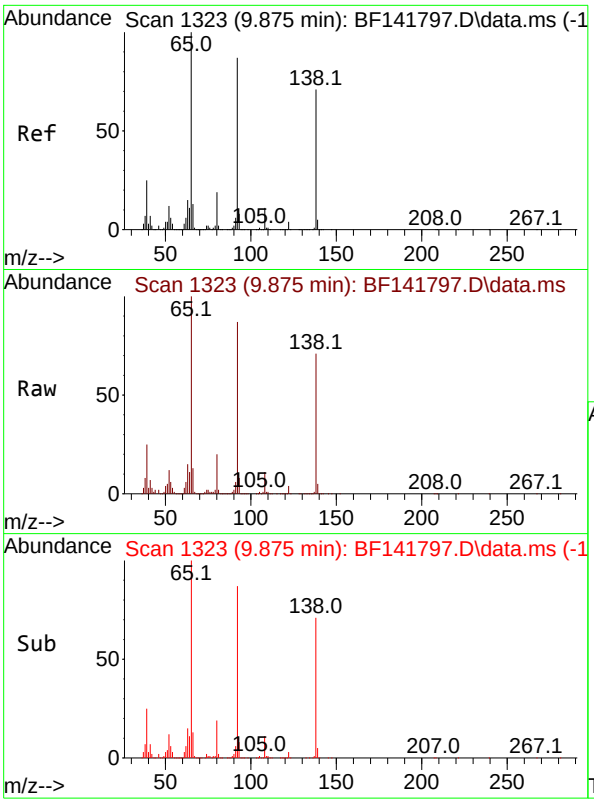


#52
Acenaphthene
Concen: 40.461 ng
RT: 9.963 min Scan# 1338
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:154 Resp: 1437821

Ion	Ratio	Lower	Upper
154	100		
153	110.9	88.7	133.1
152	51.1	40.9	61.3





#53
3-Nitroaniline
Concen: 41.045 ng
RT: 9.875 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:138 Resp: 34629

Ion	Ratio	Lower	Upper
138	100		
108	15.9	12.7	19.1
92	122.4	97.9	146.9

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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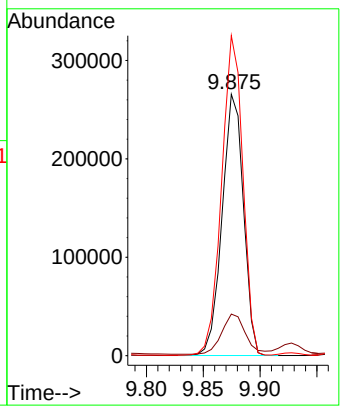
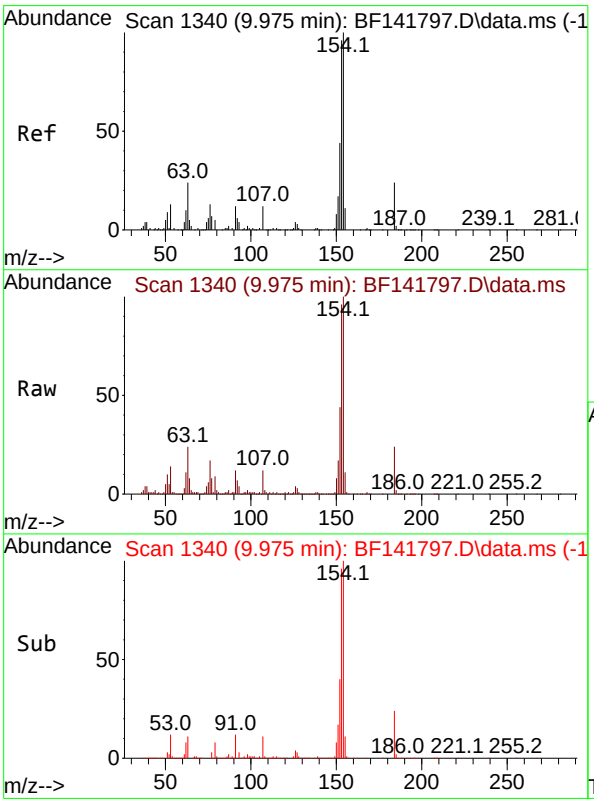
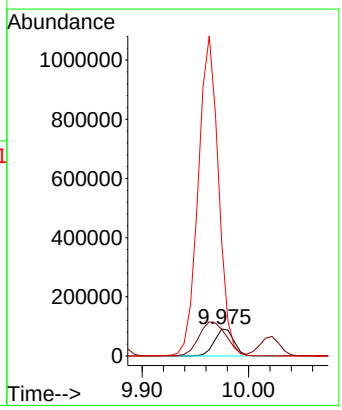


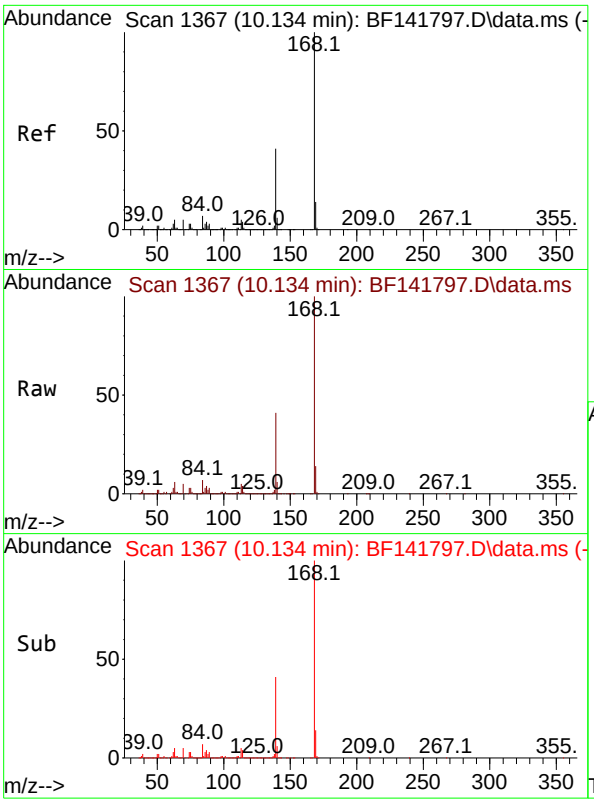


#54
2,4-Dinitrophenol
Concen: 39.874 ng
RT: 9.975 min Scan# 1340
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:184 Resp: 115933

Ion	Ratio	Lower	Upper
184	100		
63	98.8	79.0	118.6
154	419.8	335.8	503.8

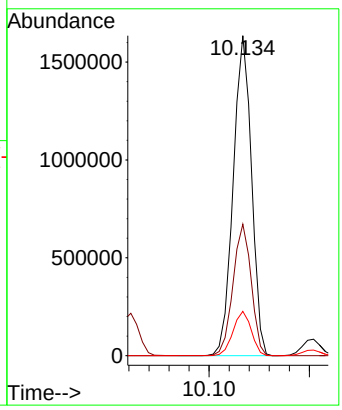




#55
Dibenzofuran
Concen: 40.198 ng
RT: 10.134 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:168 Resp: 207913

Ion	Ratio	Lower	Upper
168	100		
139	41.1	32.9	49.3
169	13.9	11.1	16.7



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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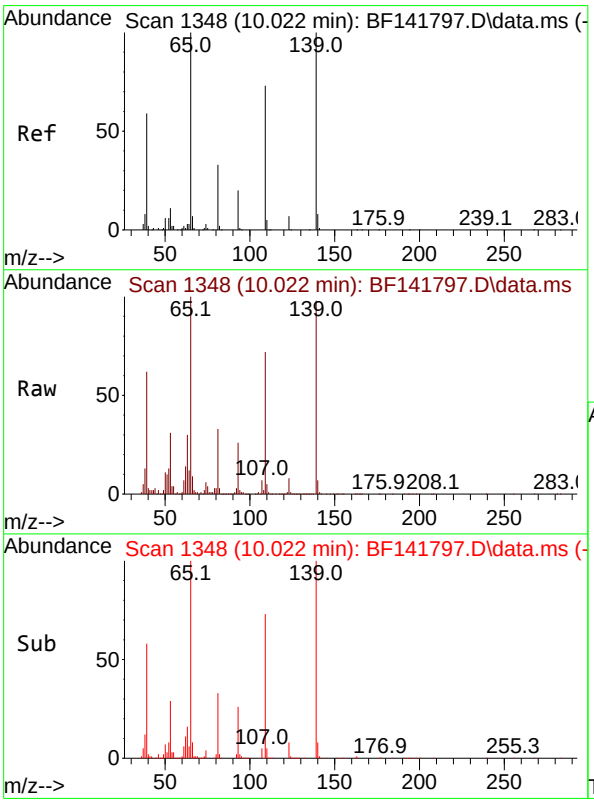
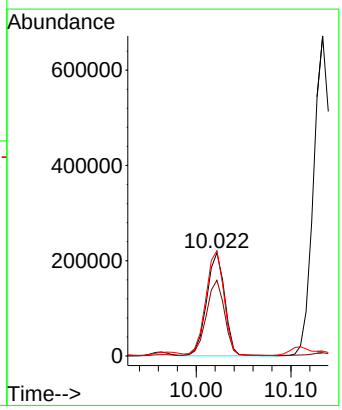
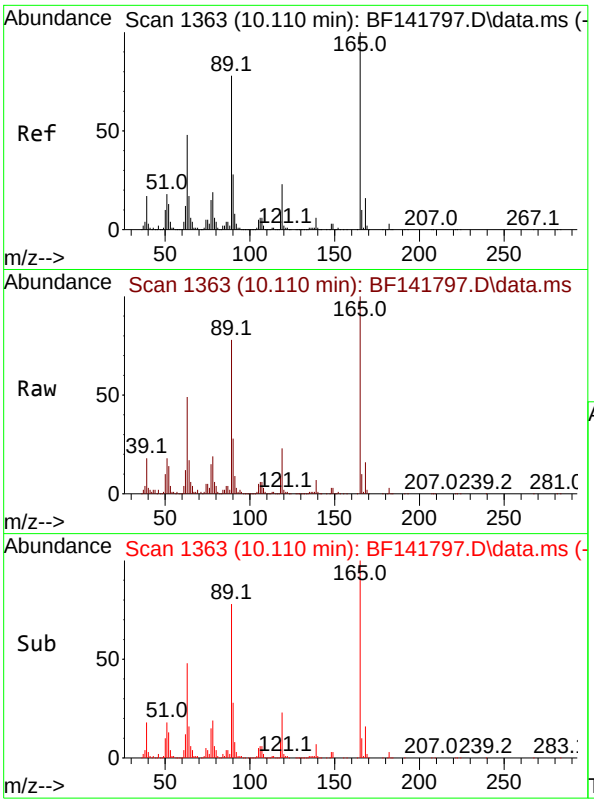


#56
4-Nitrophenol
Concen: 46.172 ng
RT: 10.022 min Scan# 1348
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:139 Resp: 285537

Ion	Ratio	Lower	Upper
139	100		
109	73.4	53.4	93.4
65	102.1	82.1	122.1

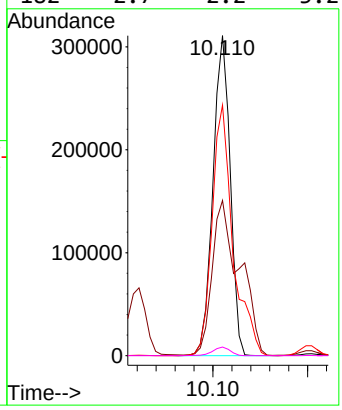




#57
2,4-Dinitrotoluene
Concen: 40.635 ng
RT: 10.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:165 Resp: 39185

Ion	Ratio	Lower	Upper
165	100		
63	48.5	38.8	58.2
89	78.3	62.6	94.0
182	2.7	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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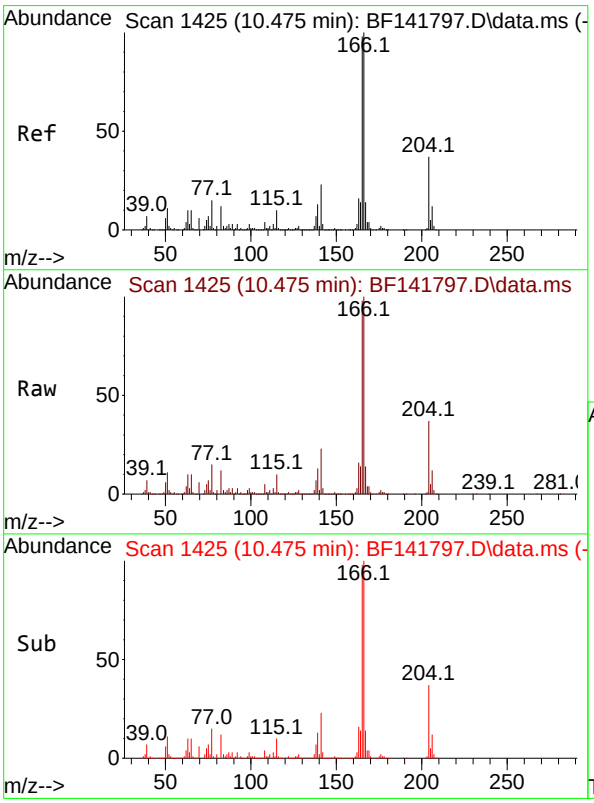
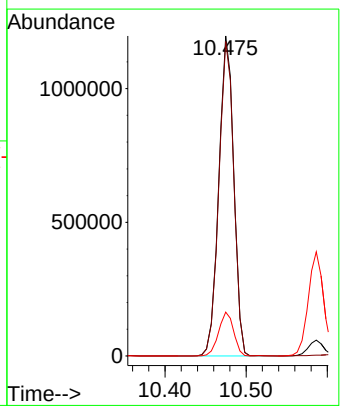
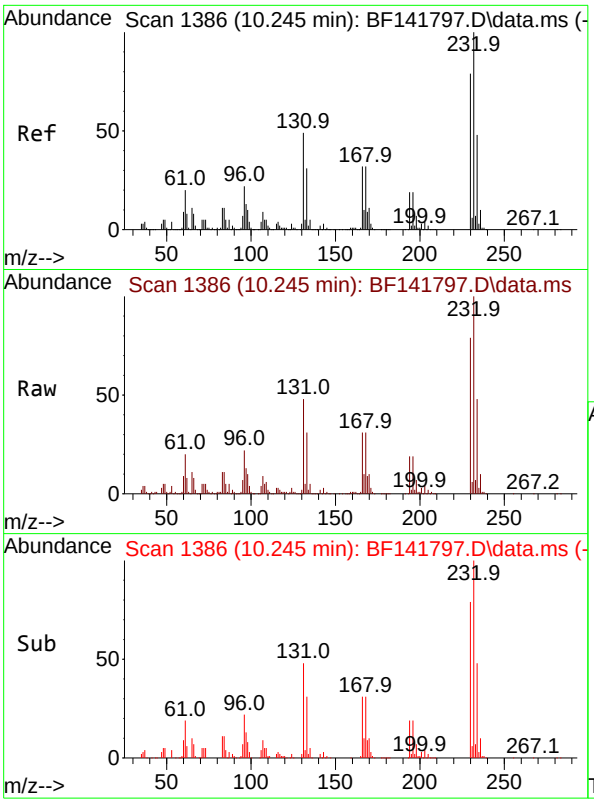


#58
Fluorene
Concen: 39.650 ng
RT: 10.475 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:166 Resp: 1536139

Ion	Ratio	Lower	Upper
166	100		
165	98.2	78.6	117.8
167	13.7	11.0	16.4

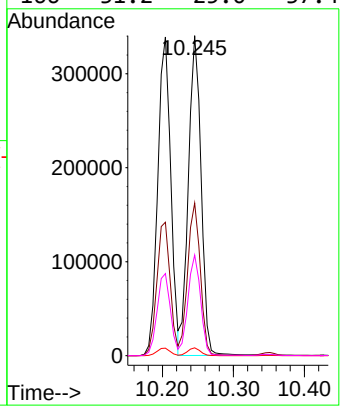




#59
2,3,4,6-Tetrachlorophenol
Concen: 42.235 ng
RT: 10.245 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:232 Resp: 42427

Ion	Ratio	Lower	Upper
232	100		
131	47.3	37.8	56.8
130	2.5	2.0	3.0
166	31.2	25.0	37.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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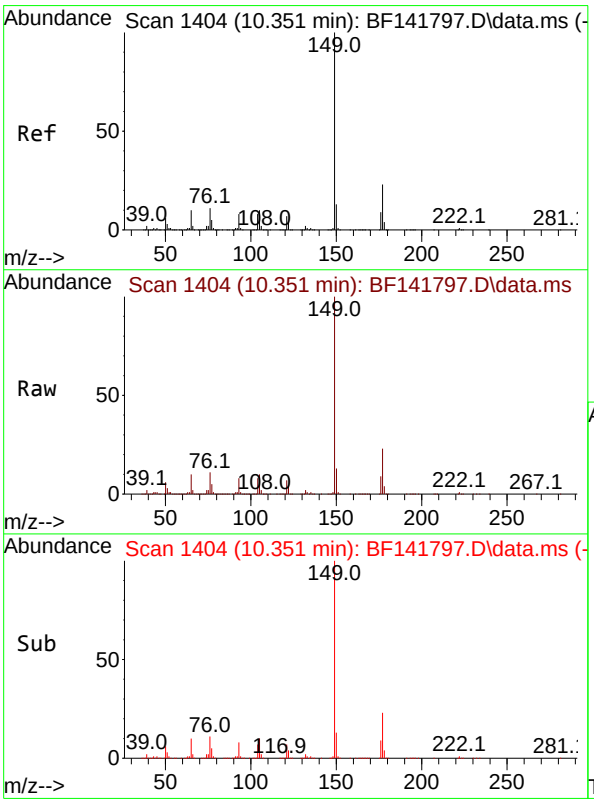
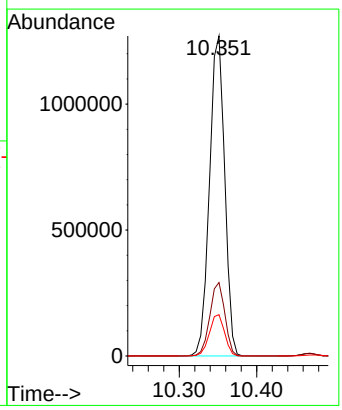
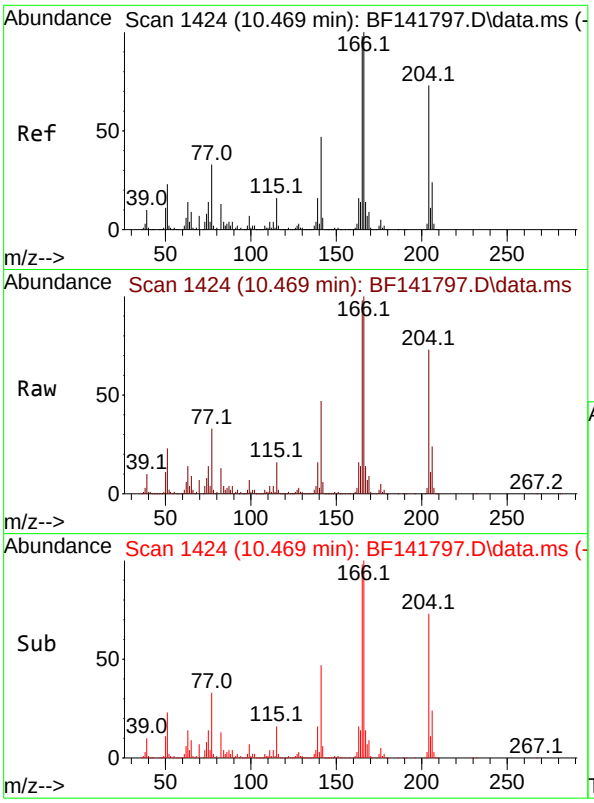


#60
Diethylphthalate
Concen: 41.203 ng
RT: 10.351 min Scan# 1404
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:149 Resp: 1729522

Ion	Ratio	Lower	Upper
149	100		
177	22.9	18.3	27.5
150	12.9	10.3	15.5





#61
4-Chlorophenyl-phenylether
Concen: 39.939 ng
RT: 10.469 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:204 Resp: 77527

Ion	Ratio	Lower	Upper
204	100		
206	32.8	26.2	39.4
141	64.6	51.7	77.5

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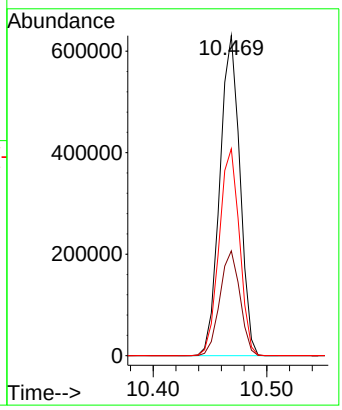
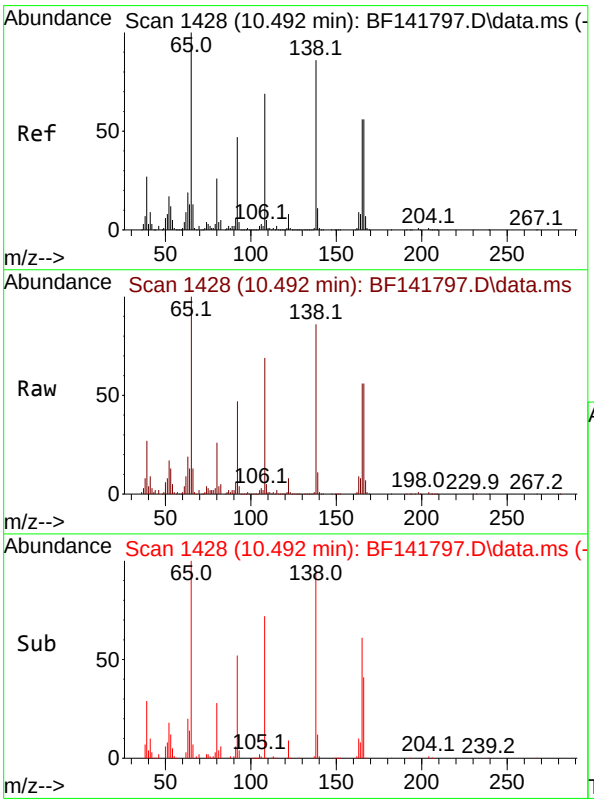
Supervised By :mohammad ahmed 02/28/2025

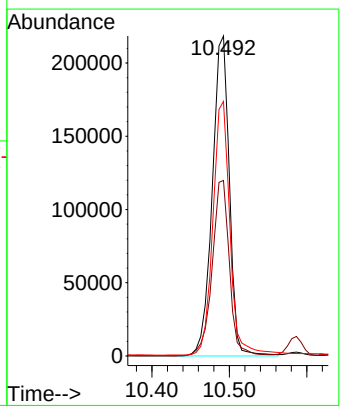


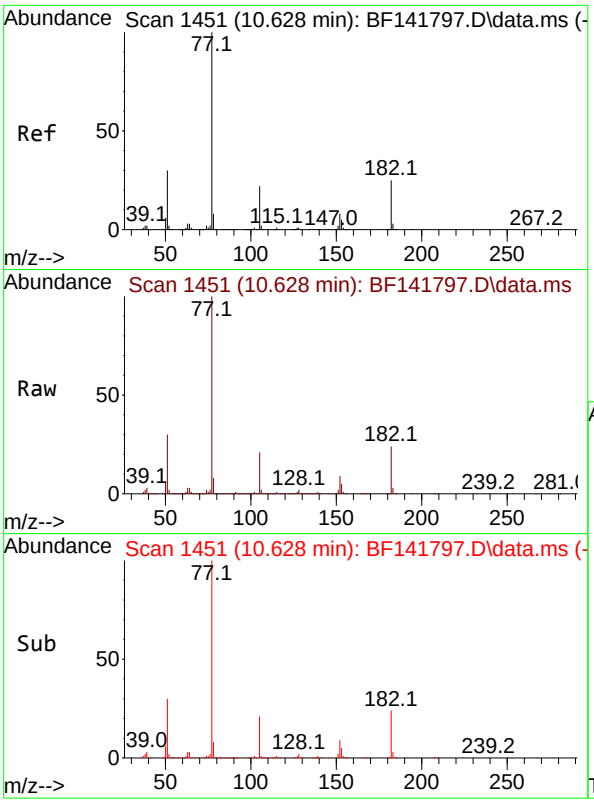


#62
4-Nitroaniline
Concen: 46.685 ng
RT: 10.492 min Scan# 1428
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:138 Resp: 333830

Ion	Ratio	Lower	Upper
138	100		
92	54.9	34.9	74.9
108	79.6	59.6	99.6

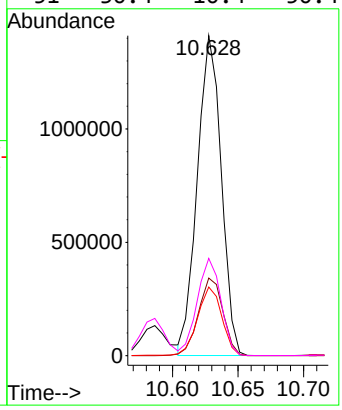




#63
Azobenzene
Concen: 40.657 ng
RT: 10.628 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 77 Resp: 179690

Ion	Ratio	Lower	Upper
77	100		
182	24.2	4.2	44.2
105	21.5	1.5	41.5
51	30.4	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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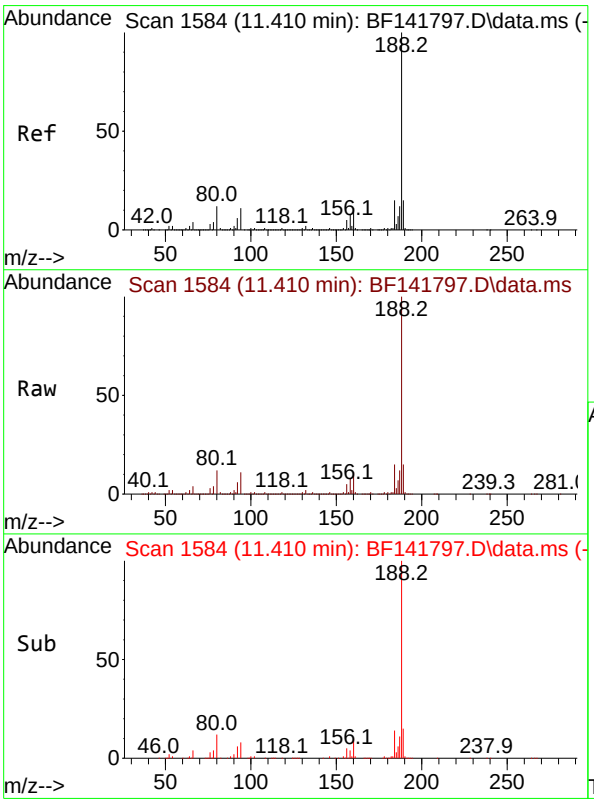
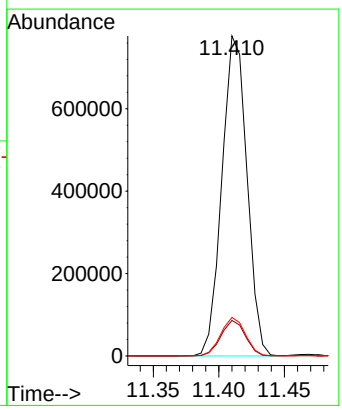
Supervised By :mohammad ahmed 02/28/2025

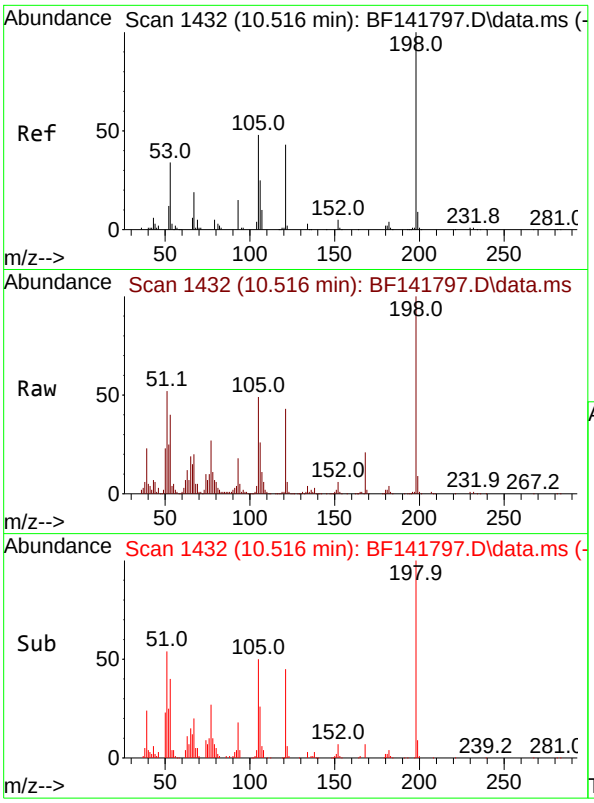


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:188 Resp: 1031875

Ion	Ratio	Lower	Upper
188	100		
94	11.1	8.9	13.3
80	12.1	9.7	14.5





#65
4,6-Dinitro-2-methylphenol
Concen: 38.731 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:198 Resp: 17901

Ion	Ratio	Lower	Upper
198	100		
51	52.1	32.1	72.1
105	48.5	28.5	68.5

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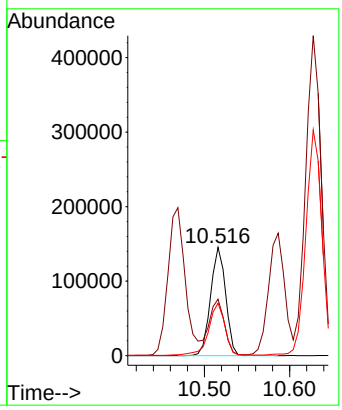
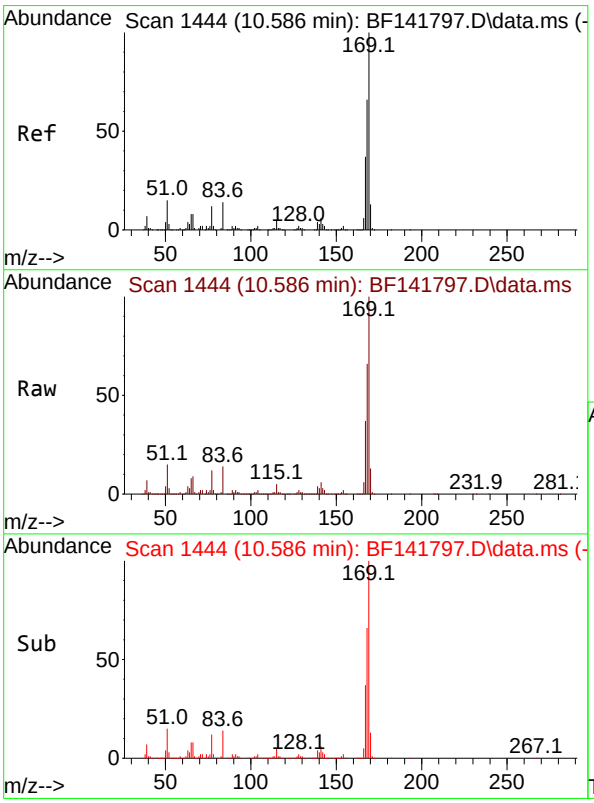
Supervised By :mohammad ahmed 02/28/2025

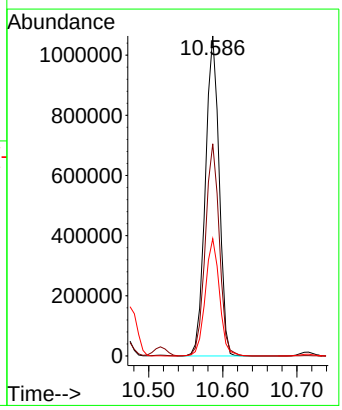


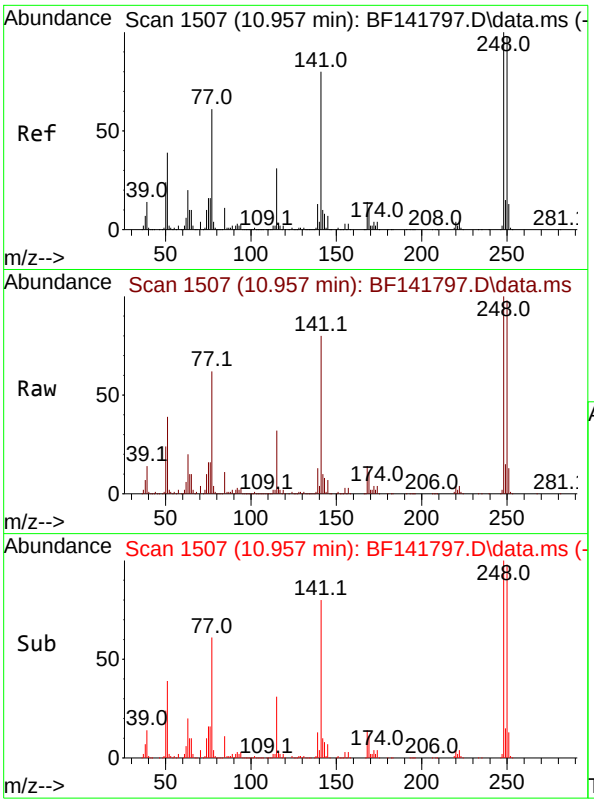


#66
n-Nitrosodiphenylamine
Concen: 40.485 ng
RT: 10.586 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:169 Resp: 1371761

Ion	Ratio	Lower	Upper
169	100		
168	66.3	53.0	79.6
167	36.6	29.3	43.9





#67
4-Bromophenyl-phenylether
Concen: 40.722 ng
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:248 Resp: 49081

Ion	Ratio	Lower	Upper
248	100		
250	97.6	78.1	117.1
141	80.4	64.3	96.5

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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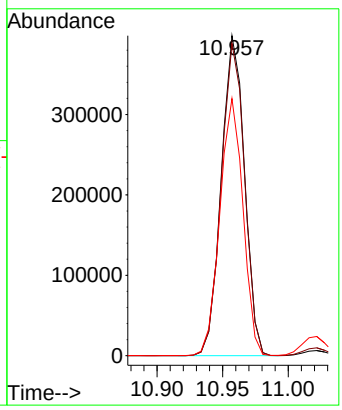
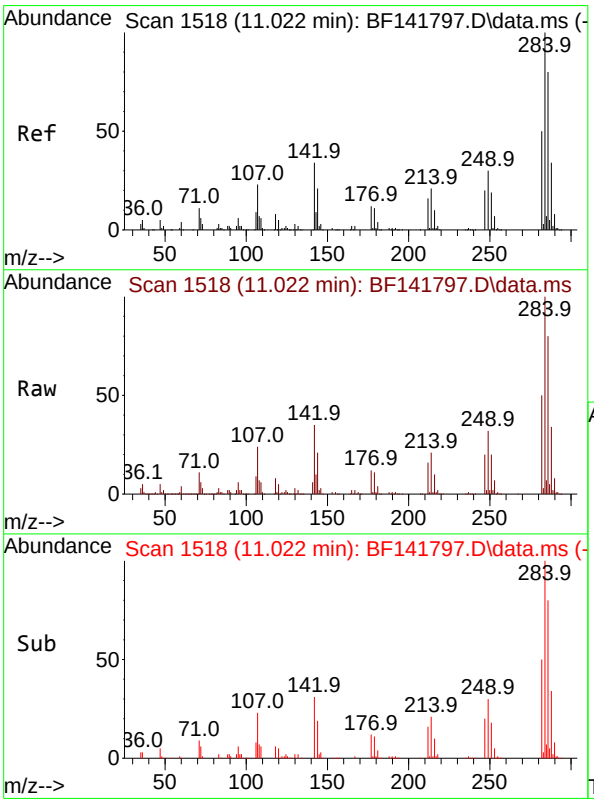
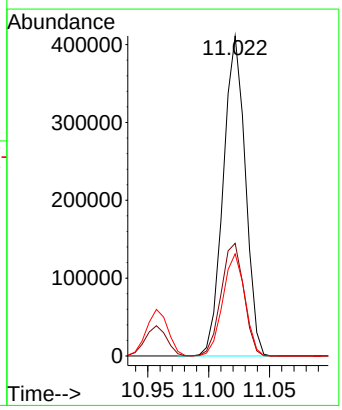


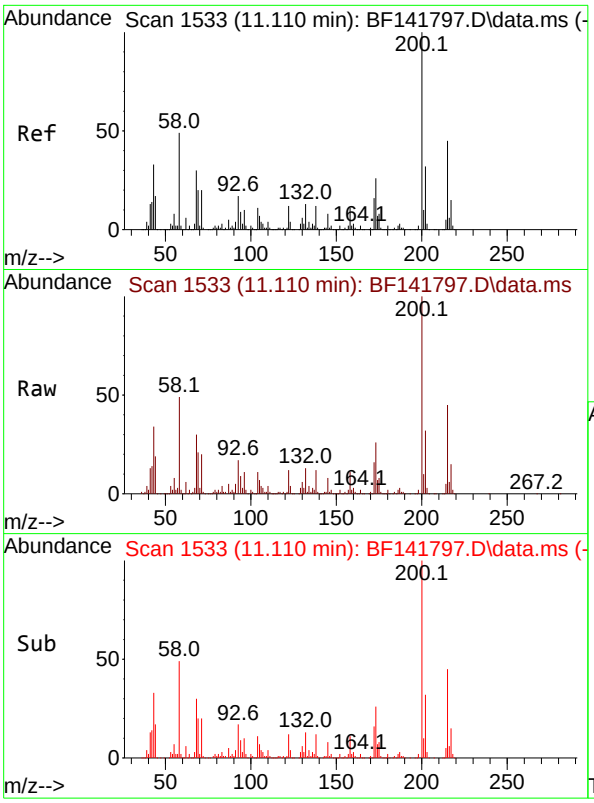


#68
Hexachlorobenzene
Concen: 40.721 ng
RT: 11.022 min Scan# 1518
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:284 Resp: 518266

Ion	Ratio	Lower	Upper
284	100		
142	35.2	28.2	42.2
249	31.9	25.5	38.3





#69
Atrazine
Concen: 39.649 ng
RT: 11.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:200 Resp: 36943

Ion	Ratio	Lower	Upper
200	100		
173	25.6	5.6	45.6
215	45.3	25.3	65.3

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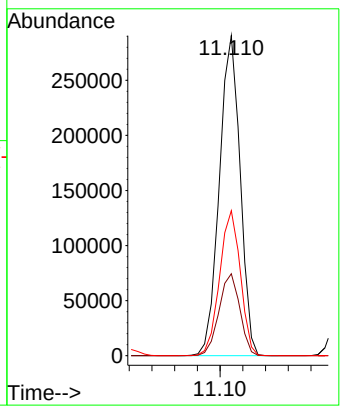
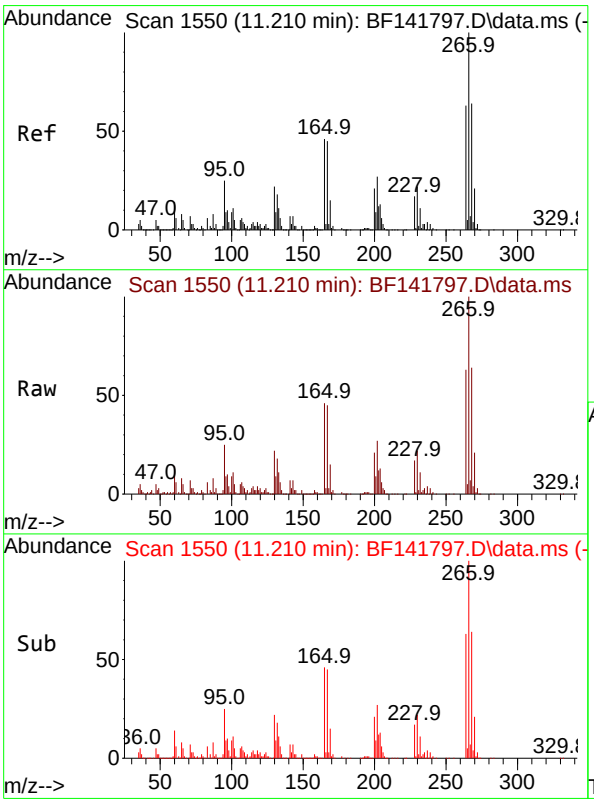
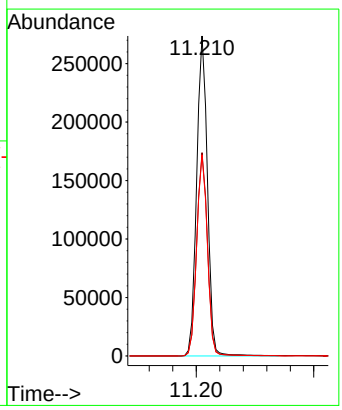


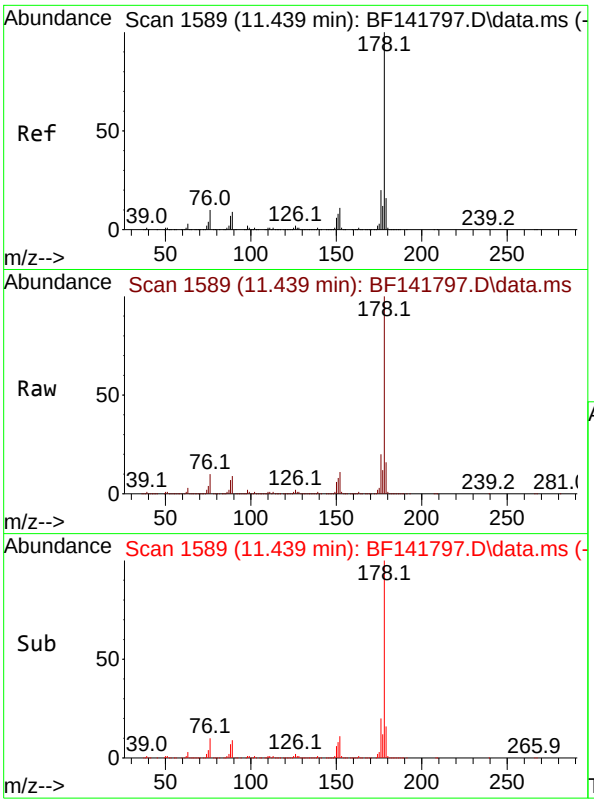


#70
Pentachlorophenol
Concen: 43.086 ng
RT: 11.210 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:266 Resp: 347791

Ion	Ratio	Lower	Upper
266	100		
268	63.6	50.9	76.3
264	62.8	50.2	75.4

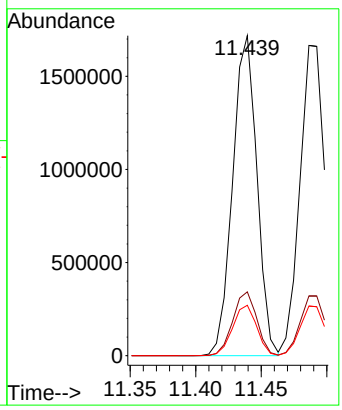




#71
Phenanthrene
Concen: 40.130 ng
RT: 11.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:178 Resp: 221495

Ion	Ratio	Lower	Upper
178	100		
176	20.0	16.0	24.0
179	15.8	12.6	19.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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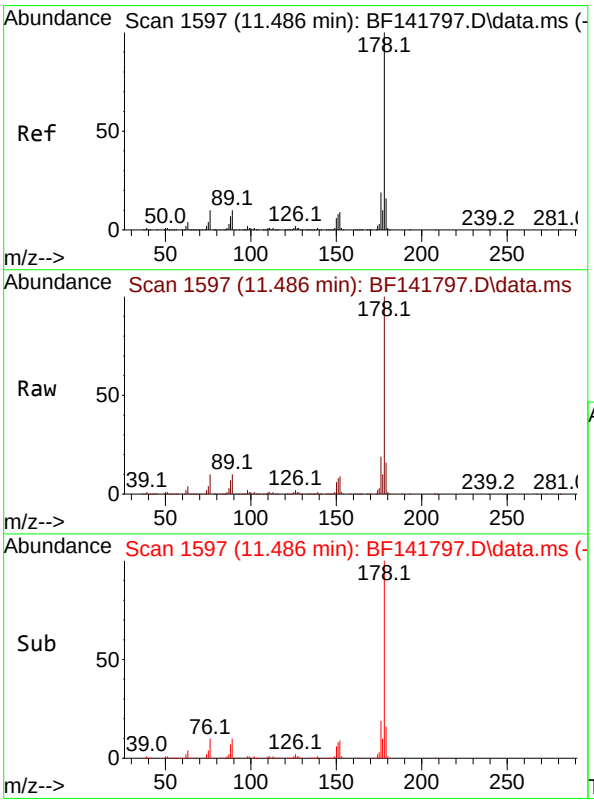
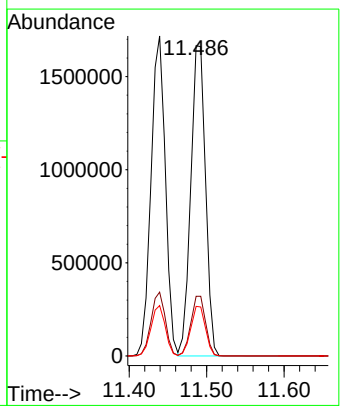
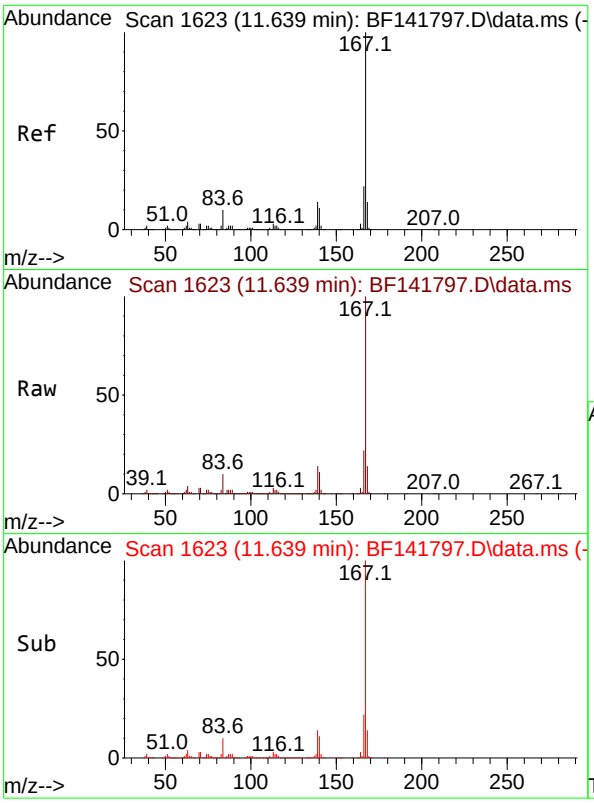


#72
Anthracene
Concen: 39.845 ng
RT: 11.486 min Scan# 1597
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:178 Resp: 2204147

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.0
179	16.0	12.8	19.2

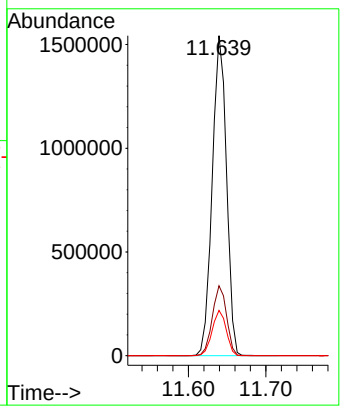




#73
Carbazole
Concen: 40.358 ng
RT: 11.639 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:167 Resp: 197149

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.5	26.3
139	14.1	11.3	16.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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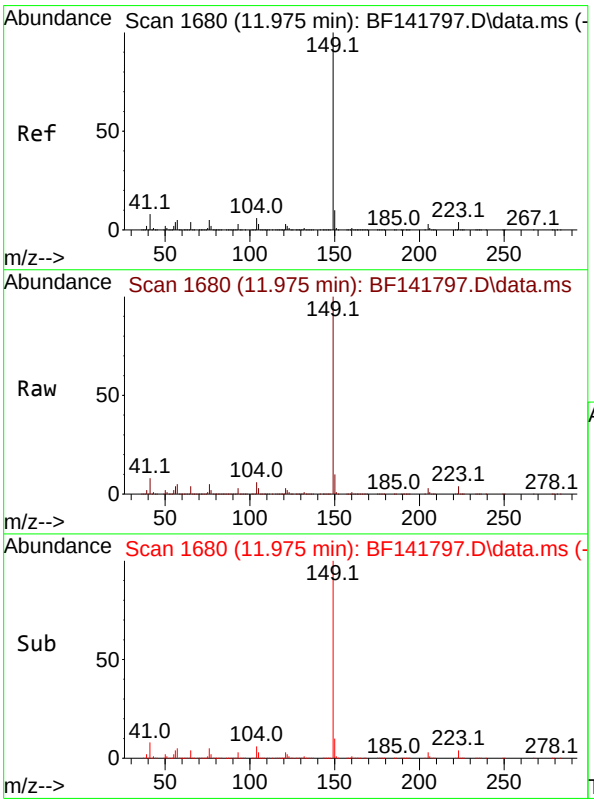
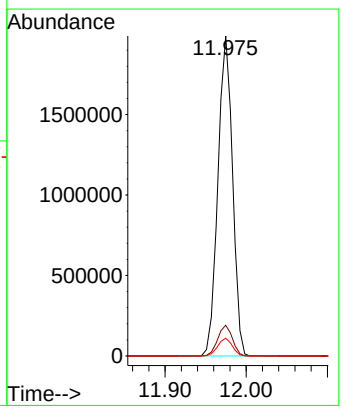
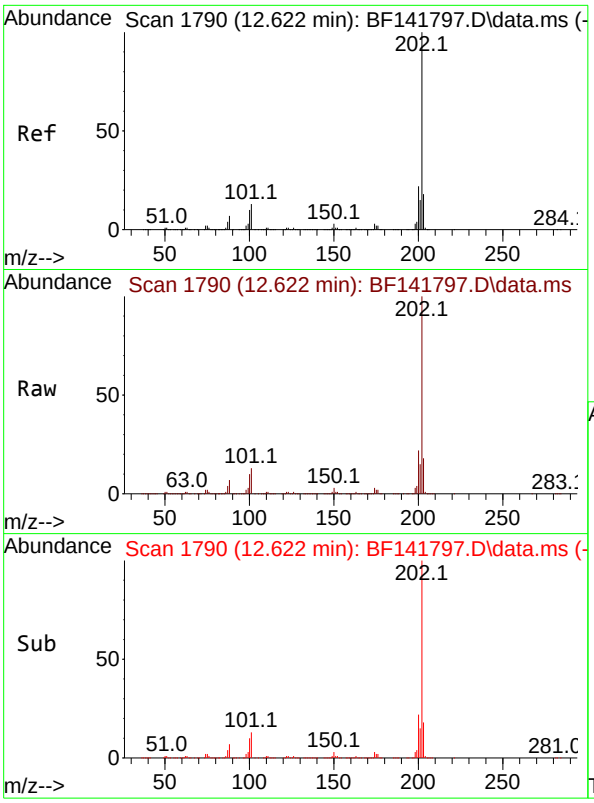


#74
Di-n-butylphthalate
Concen: 40.274 ng
RT: 11.975 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:149 Resp: 2493783

Ion	Ratio	Lower	Upper
149	100		
150	9.6	7.7	11.5
104	5.5	4.4	6.6





#75
Fluoranthene
Concen: 39.753 ng
RT: 12.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:202 Resp: 224828

Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	32.8
203	18.0	0.0	38.0

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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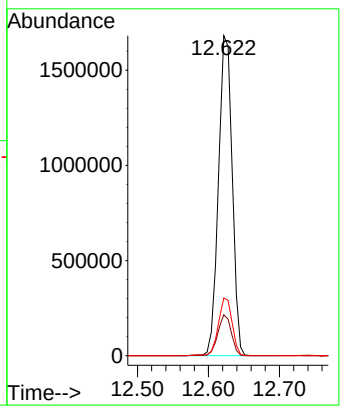
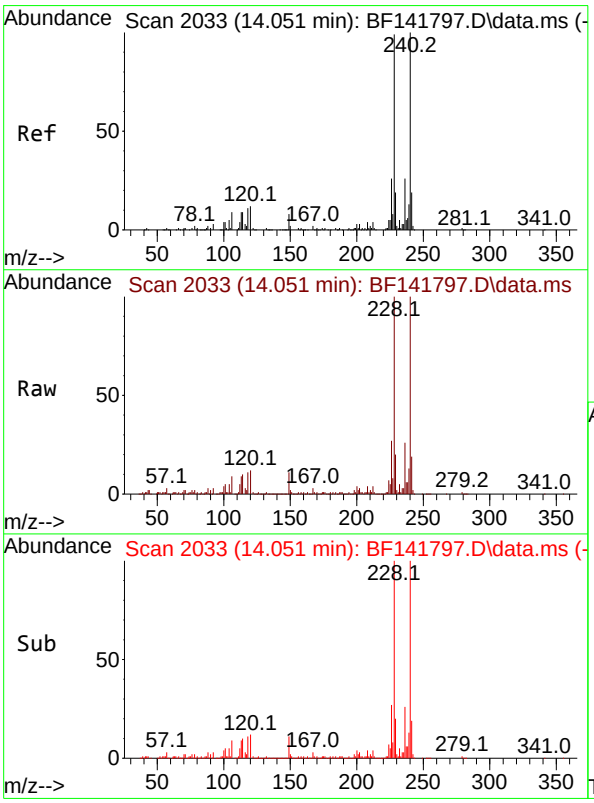
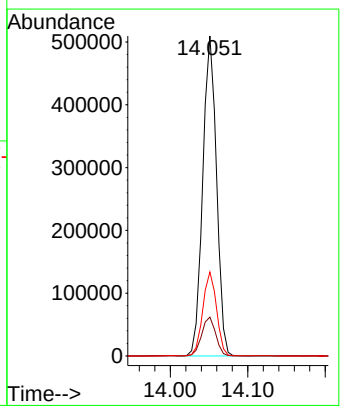


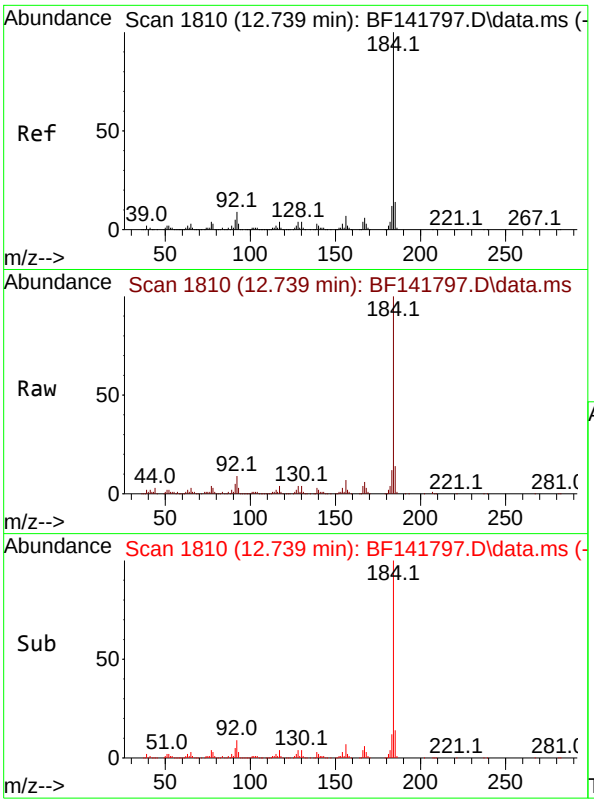


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:240 Resp: 629307

Ion	Ratio	Lower	Upper
240	100		
120	12.1	9.7	14.5
236	26.2	21.0	31.4





#77
Benzidine
Concen: 41.235 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:184 Resp: 32660

Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.6	17.4
183	11.7	9.4	14.0

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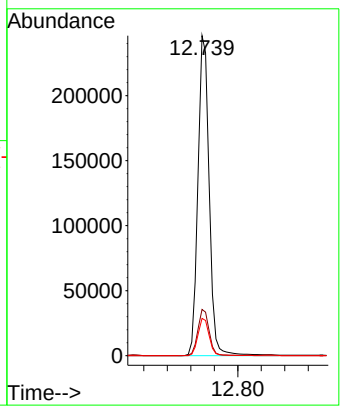
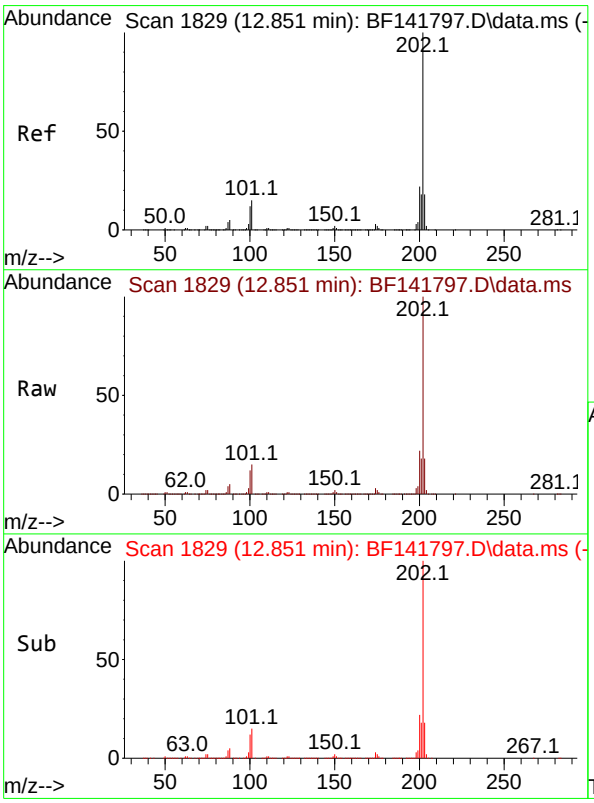
Supervised By :mohammad ahmed 02/28/2025

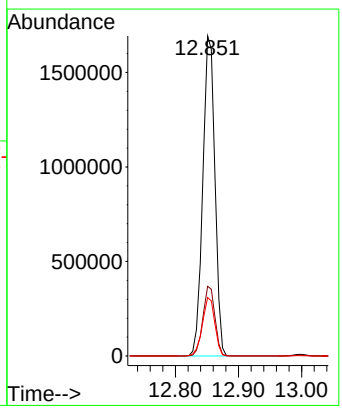


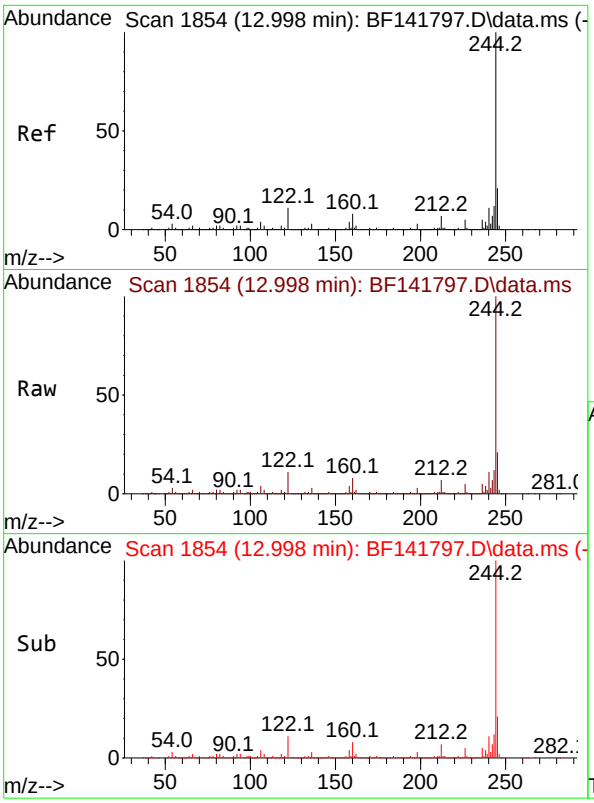


#78
Pyrene
Concen: 41.470 ng
RT: 12.851 min Scan# 1829
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:202 Resp: 2259888

Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.4	26.0
203	18.3	14.6	22.0

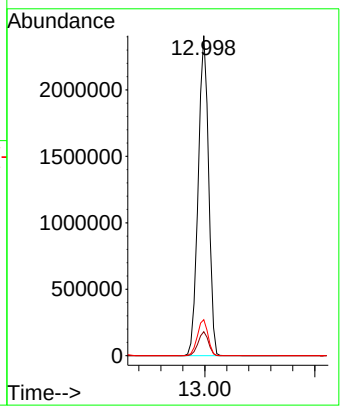




#79
Terphenyl-d14
Concen: 81.511 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:244 Resp: 317044

Ion	Ratio	Lower	Upper
244	100		
212	7.5	6.0	9.0
122	11.3	9.0	13.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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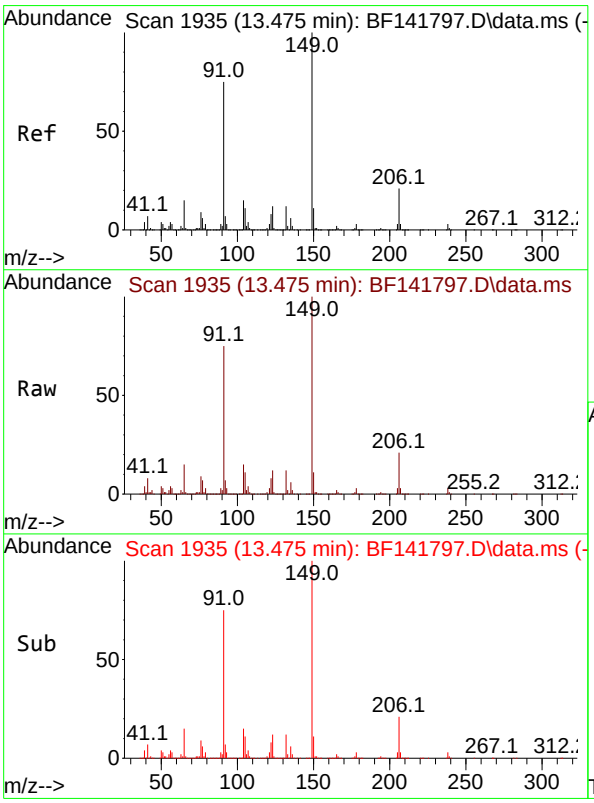
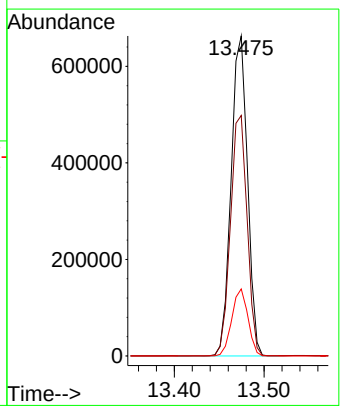
Supervised By :mohammad ahmed 02/28/2025

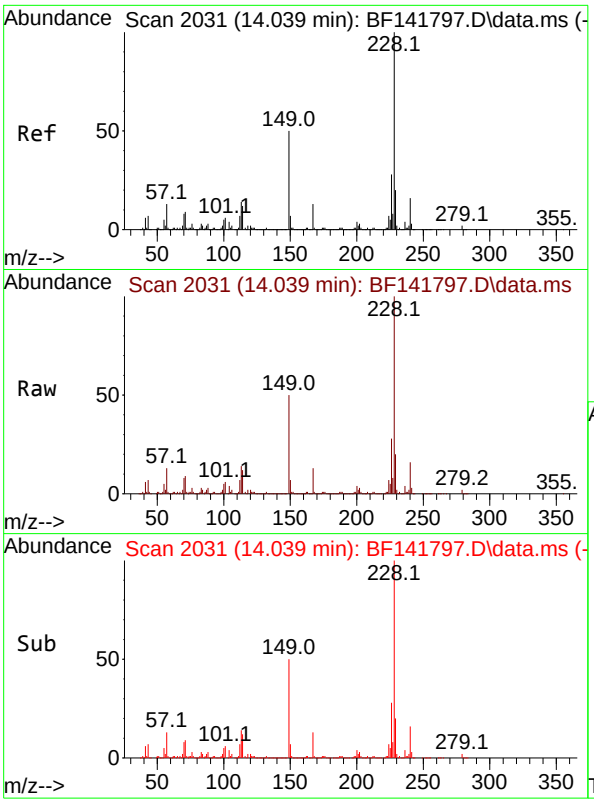


#80
Butylbenzylphthalate
Concen: 42.452 ng
RT: 13.475 min Scan# 1935
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:149 Resp: 840509

Ion	Ratio	Lower	Upper
149	100		
91	75.1	60.1	90.1
206	21.0	16.8	25.2

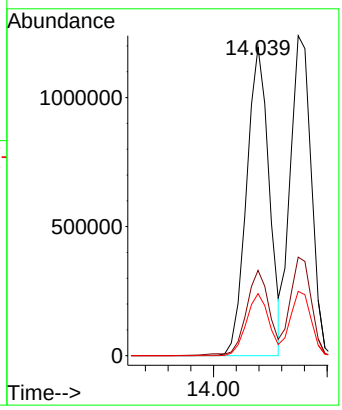




#81
Benzo(a)anthracene
Concen: 39.742 ng
RT: 14.039 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:228 Resp: 165193

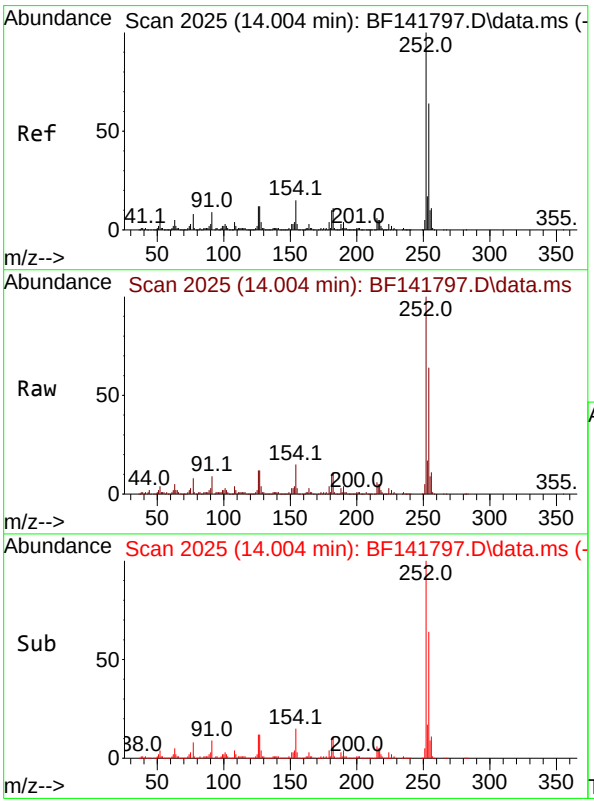
Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.1	33.1
229	20.1	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

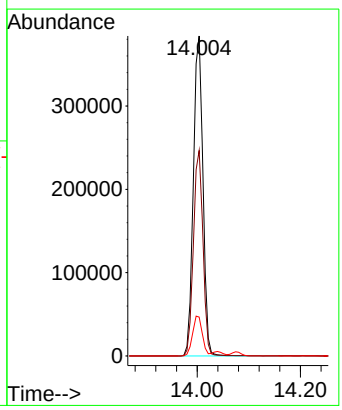
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

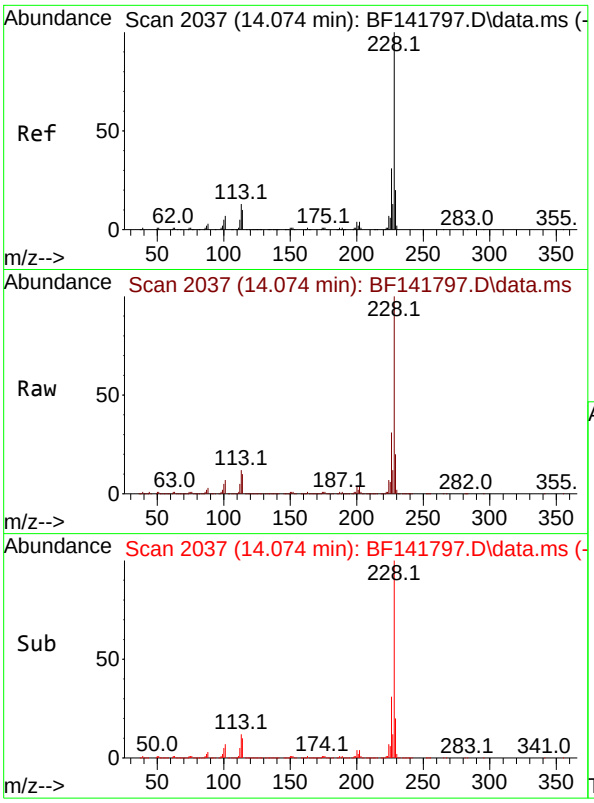


#82
3,3'-Dichlorobenzidine
Concen: 41.467 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:252 Resp: 494528

Ion	Ratio	Lower	Upper
252	100		
254	64.2	51.4	77.0
126	12.2	9.8	14.6

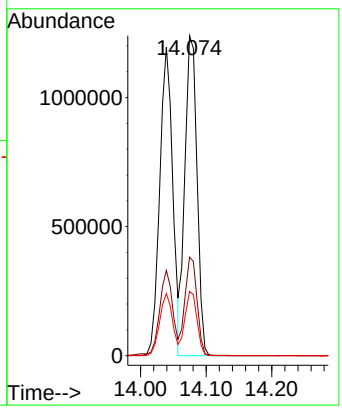




#83
Chrysene
Concen: 41.543 ng
RT: 14.074 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:228 Resp: 159181

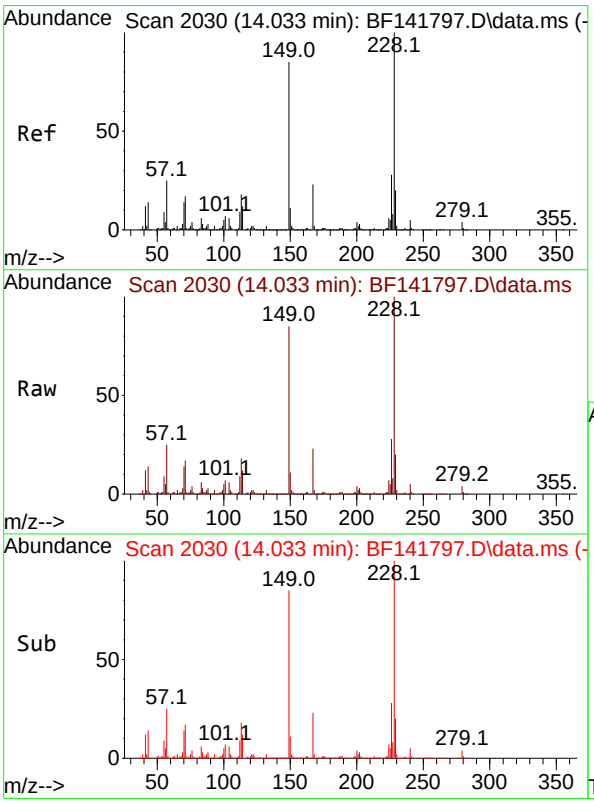
Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	37.0
229	20.1	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

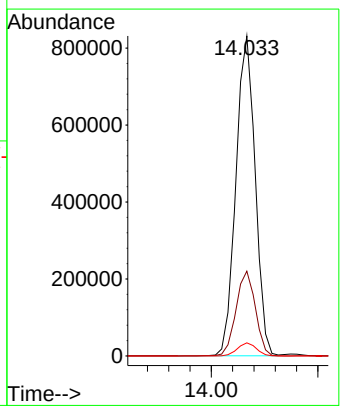
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

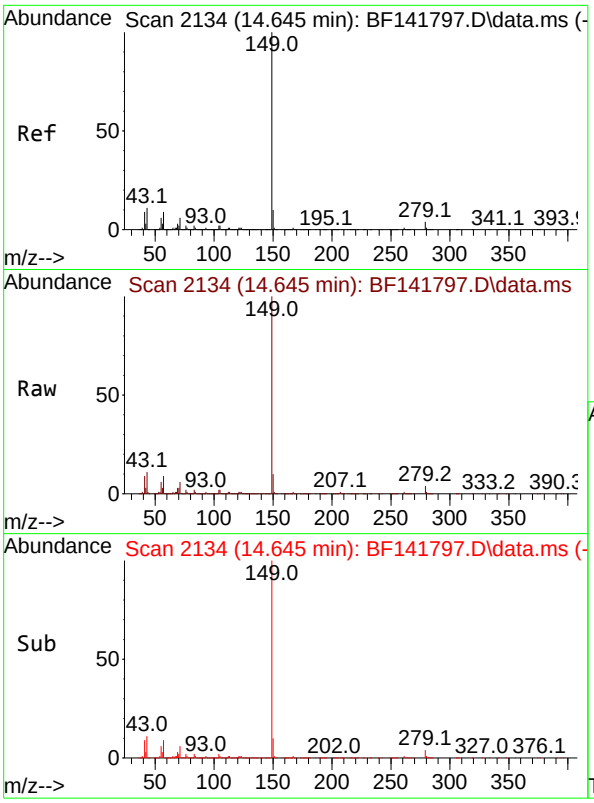


#84
Bis(2-ethylhexyl)phthalate
Concen: 42.458 ng
RT: 14.033 min Scan# 2030
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:149 Resp: 1046693

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.2	31.8
279	4.1	3.3	4.9





#85
Di-n-octyl phthalate
Concen: 44.568 ng
RT: 14.645 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:149 Resp: 164490

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.7	8.6	12.8

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
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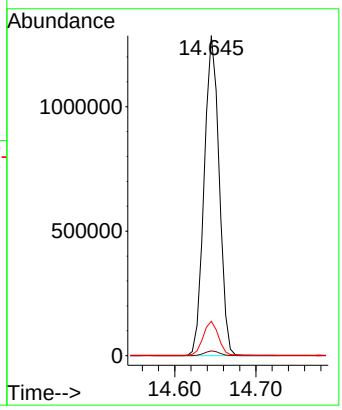
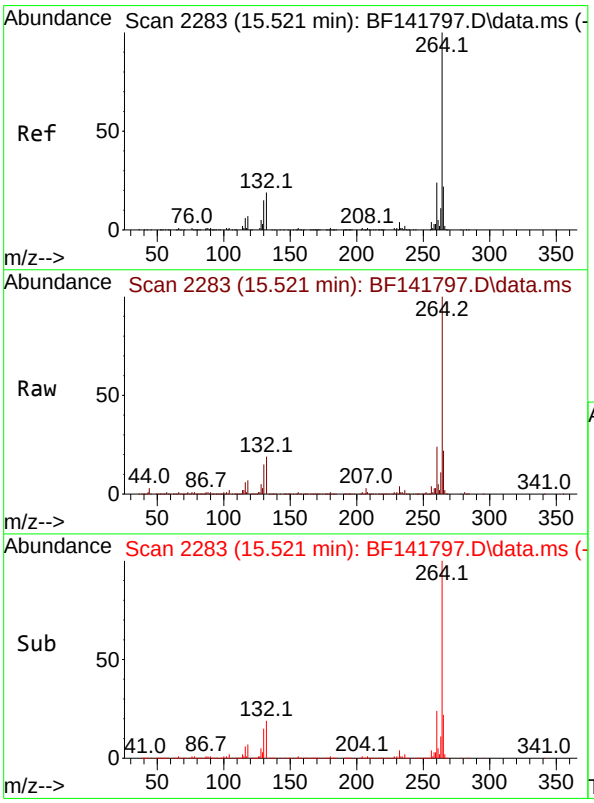
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

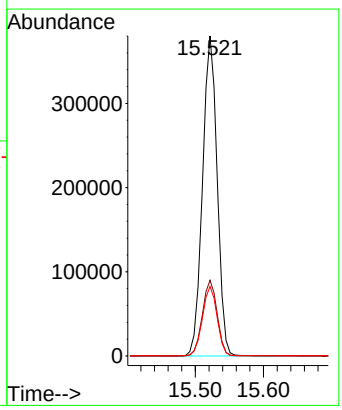


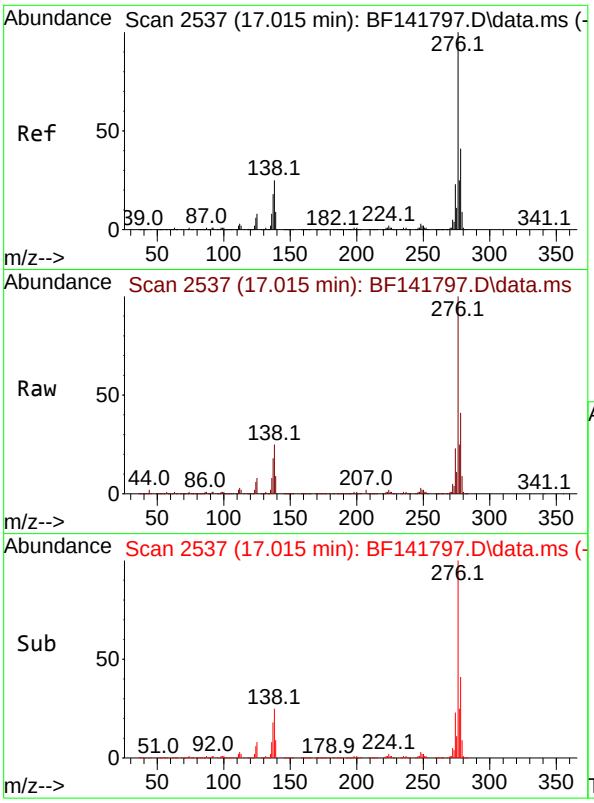


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:264 Resp: 567240

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.9	28.3
265	21.7	17.4	26.0

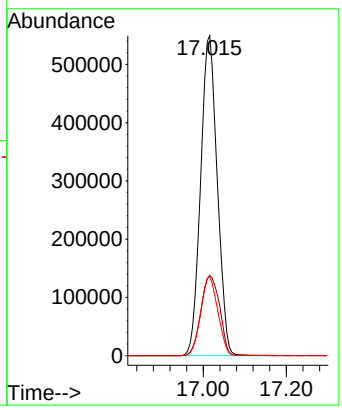




#87
Indeno(1,2,3-cd)pyrene
Concen: 42.264 ng
RT: 17.015 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:276 Resp: 152657

Ion	Ratio	Lower	Upper
276	100		
138	28.1	22.5	33.7
277	25.4	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
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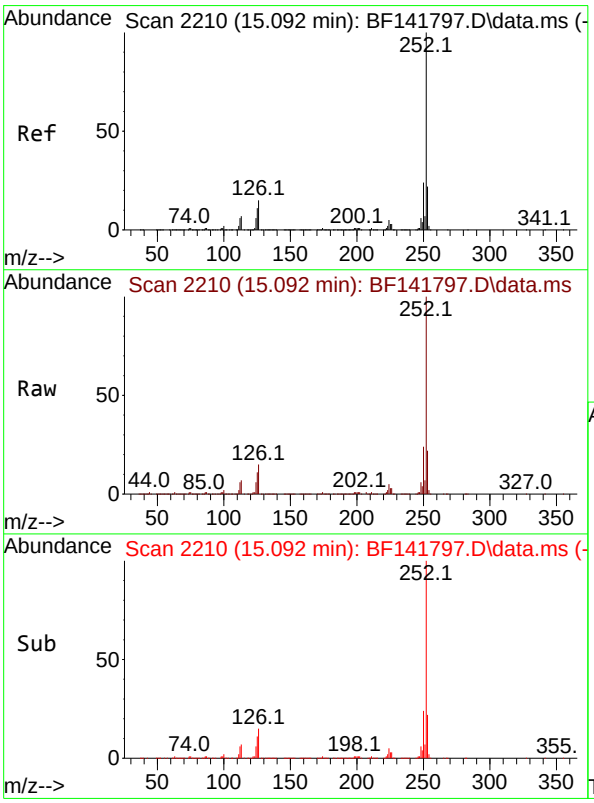
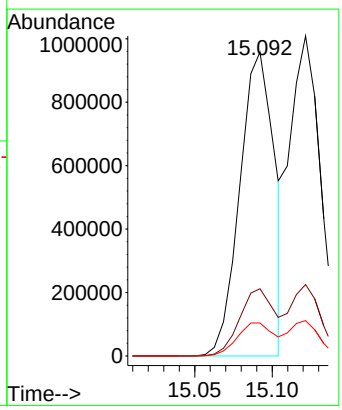
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

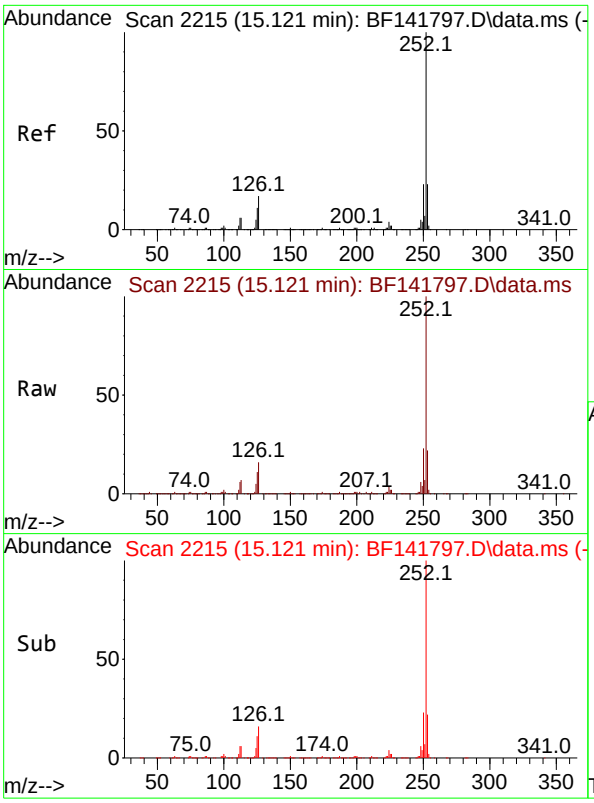


#88
Benzo(b)fluoranthene
Concen: 38.353 ng
RT: 15.092 min Scan# 2210
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:252 Resp: 1481931

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	10.8	8.6	13.0

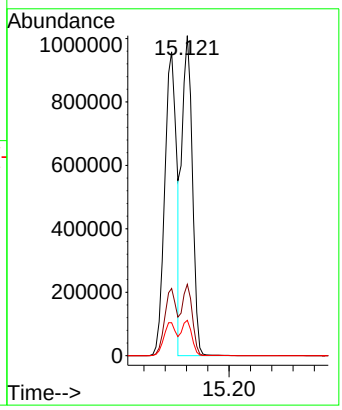




#89
Benzo(k)fluoranthene
Concen: 41.943 ng
RT: 15.121 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:252 Resp: 137747

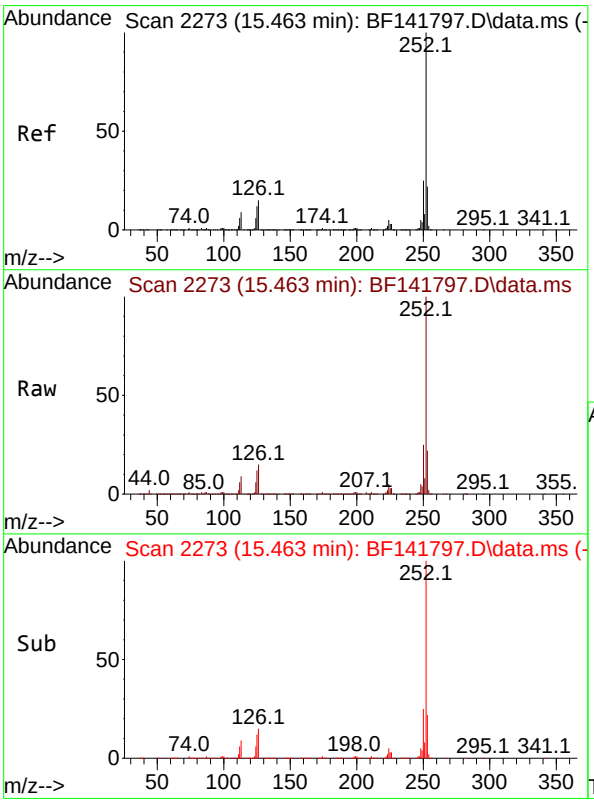
Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	11.0	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

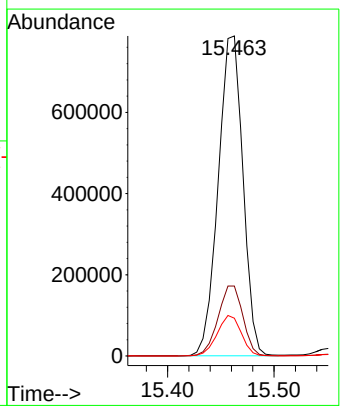
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

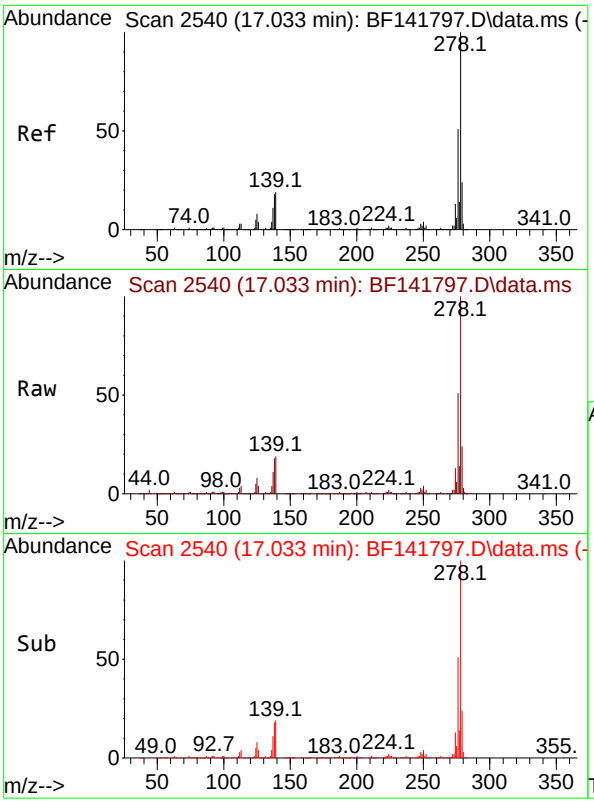


#90
Benzo(a)pyrene
Concen: 40.981 ng
RT: 15.463 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:252 Resp: 1269914

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	11.8	9.4	14.2

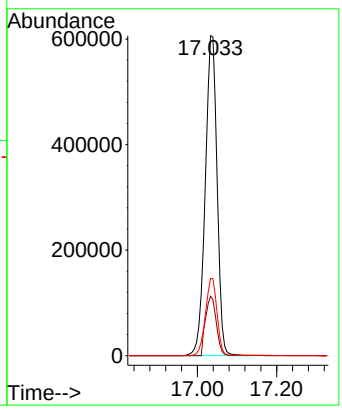




#91
Dibenzo(a,h)anthracene
Concen: 42.664 ng
RT: 17.033 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:278 Resp: 125786

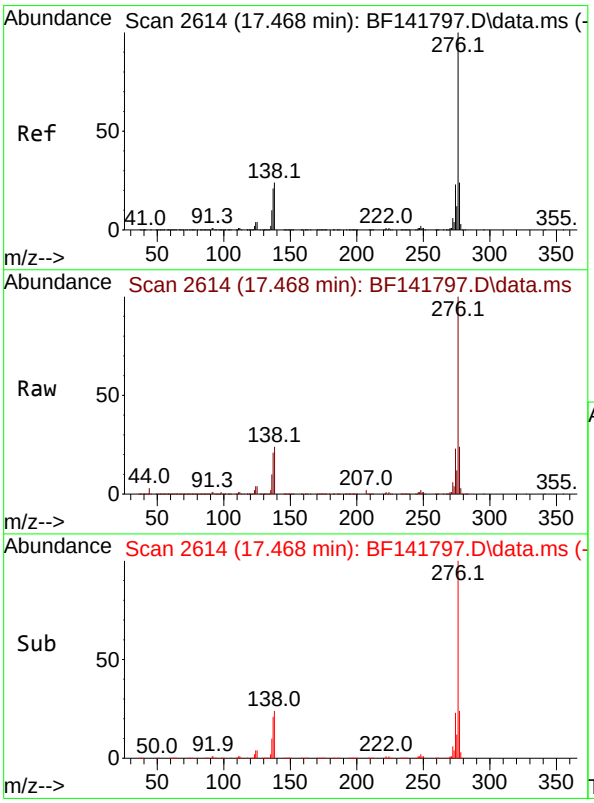
Ion	Ratio	Lower	Upper
278	100		
139	18.6	14.9	22.3
279	24.1	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

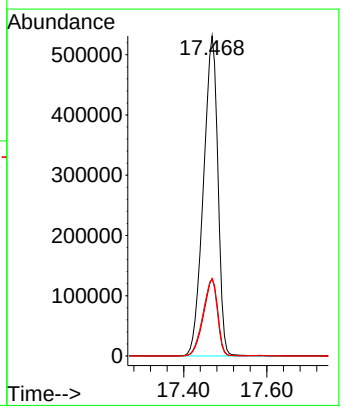
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025



#92
Benzo(g,h,i)perylene
Concen: 42.430 ng
RT: 17.468 min Scan# 2614
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:276 Resp: 1281590

Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.4	29.0
138	24.1	19.3	28.9



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141798.D
Acq On : 27 Feb 2025 17:46
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Feb 28 01:26:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.892	152	294968	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	1175652	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	632437	20.000	ng		0.00
64) Phenanthrene-d10	11.410	188	1007266	20.000	ng		0.00
76) Chrysene-d12	14.051	240	571903	20.000	ng		0.00
86) Perylene-d12	15.521	264	520644	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	1747157	94.593	ng		0.00
7) Phenol-d6	6.510	99	2273216	94.557	ng		0.00
23) Nitrobenzene-d5	7.457	82	1953916	106.234	ng		0.00
42) 2,4,6-Tribromophenol	10.716	330	580093	97.701	ng		0.00
45) 2-Fluorobiphenyl	9.251	172	3566962	90.435	ng		0.00
79) Terphenyl-d14	12.998	244	3516535	99.483	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.681	88	401754	47.937	ng		99
3) Pyridine	3.451	79	1017692	48.805	ng		99
4) n-Nitrosodimethylamine	3.404	42	497063	49.541	ng		99
6) Aniline	6.557	93	1210646	48.702	ng		100
8) 2-Chlorophenol	6.675	128	957860	47.940	ng		99
9) Benzaldehyde	6.440	77	644844	46.113	ng		99
10) Phenol	6.528	94	1210418	47.257	ng		99
11) bis(2-Chloroethyl)ether	6.628	93	943249	48.169	ng		99
12) 1,3-Dichlorobenzene	6.834	146	1016156	47.489	ng		99
13) 1,4-Dichlorobenzene	6.910	146	1024761	47.531	ng		100
14) 1,2-Dichlorobenzene	7.063	146	948038	47.090	ng		99
15) Benzyl Alcohol	7.028	79	927459	48.272	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	1423138	47.854	ng		100
17) 2-Methylphenol	7.134	107	795600	48.240	ng		99
18) Hexachloroethane	7.404	117	393322	48.741	ng		99
19) n-Nitroso-di-n-propyla...	7.310	70	744192	47.090	ng		99
20) 3+4-Methylphenols	7.292	107	961623	46.825	ng	#	87
22) Acetophenone	7.298	105	1339971	46.798	ng		97
24) Nitrobenzene	7.475	77	1025625	52.073	ng		99
25) Isophorone	7.716	82	1886546	47.744	ng		99
26) 2-Nitrophenol	7.786	139	425765	48.354	ng		99
27) 2,4-Dimethylphenol	7.816	122	698393	48.082	ng		99
28) bis(2-Chloroethoxy)met...	7.922	93	1186179	47.060	ng		100
29) 2,4-Dichlorophenol	8.022	162	813150	48.527	ng		100
30) 1,2,4-Trichlorobenzene	8.110	180	875703	47.693	ng		99
31) Naphthalene	8.192	128	2820879	46.685	ng		100
32) Benzoic acid	7.945	122	587574	48.392	ng		99
33) 4-Chloroaniline	8.239	127	1028715	46.432	ng		99
34) Hexachlorobutadiene	8.310	225	551683	48.351	ng		99
35) Caprolactam	8.622	113	248725	48.241	ng		98
36) 4-Chloro-3-methylphenol	8.716	107	880725	47.314	ng		99
37) 2-Methylnaphthalene	8.886	142	1825639	46.064	ng		99
38) 1-Methylnaphthalene	8.986	142	1745465	45.899	ng		99
40) 1,2,4,5-Tetrachloroben...	9.051	216	868619	47.555	ng		100
41) Hexachlorocyclopentadiene	9.039	237	388222	50.930	ng		99
43) 2,4,6-Trichlorophenol	9.157	196	578263	49.010	ng		100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141798.D
Acq On : 27 Feb 2025 17:46
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Feb 28 01:26:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

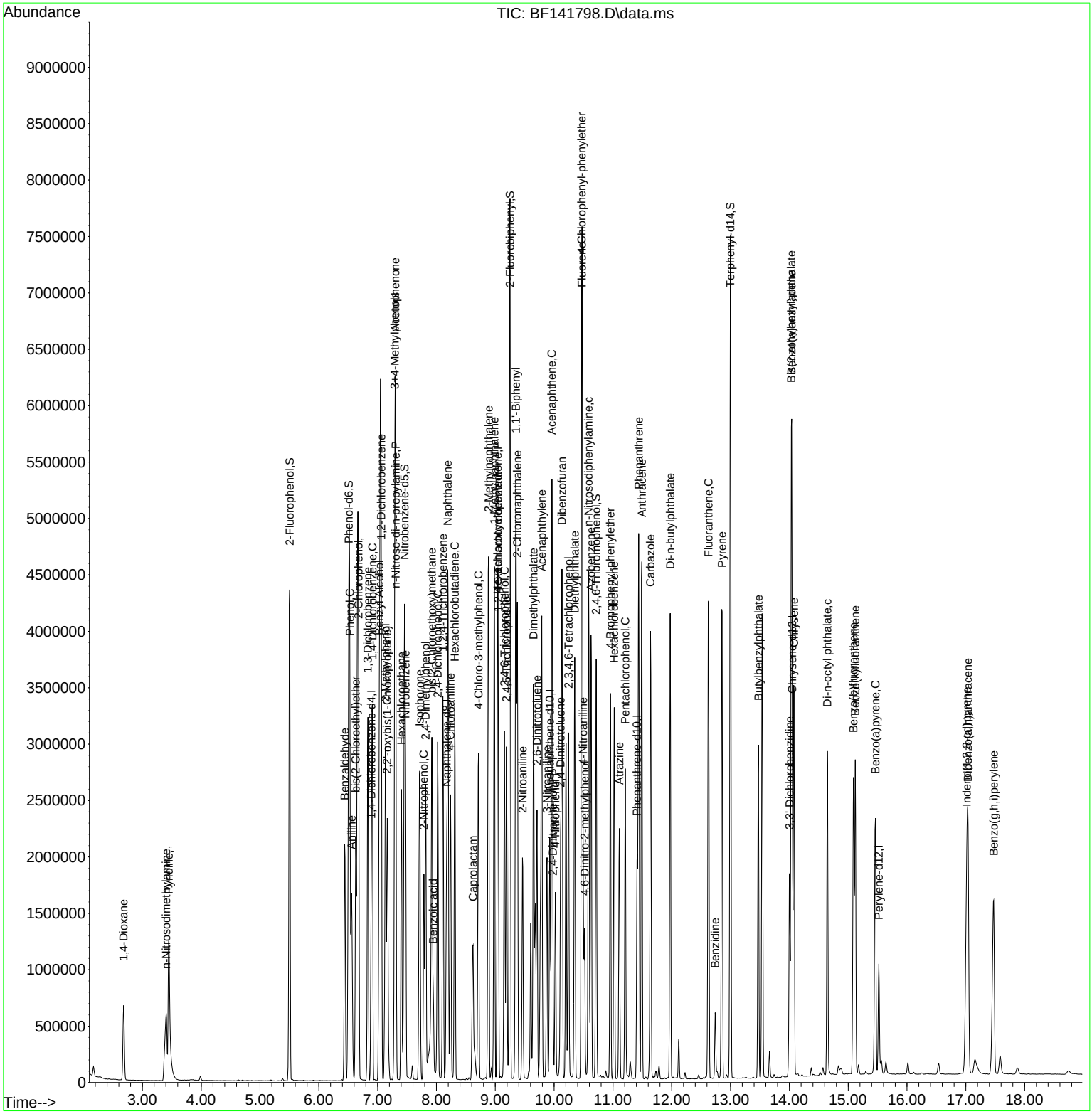
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	574978	49.213	ng		100
46) 1,1'-Biphenyl	9.351	154	2234592	46.420	ng		100
47) 2-Chloronaphthalene	9.375	162	1672555	47.075	ng		99
48) 2-Nitroaniline	9.463	65	469075	48.211	ng		98
49) Acenaphthylene	9.792	152	2466104	46.294	ng		99
50) Dimethylphthalate	9.651	163	1994958	47.103	ng		100
51) 2,6-Dinitrotoluene	9.710	165	396873	48.926	ng		99
52) Acenaphthene	9.963	154	1689163	46.994	ng		100
53) 3-Nitroaniline	9.880	138	417015	48.300	ng		97
54) 2,4-Dinitrophenol	9.980	184	151706	48.388	ng	#	8
55) Dibenzofuran	10.133	168	2422882	46.312	ng		100
56) 4-Nitrophenol	10.022	139	340020	54.357	ng		98
57) 2,4-Dinitrotoluene	10.110	165	490028	49.405	ng		100
58) Fluorene	10.475	166	1783757	45.518	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	489160	48.140	ng		97
60) Diethylphthalate	10.351	149	1991111	46.896	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	904835	46.084	ng		99
62) 4-Nitroaniline	10.492	138	391399	54.114	ng		98
63) Azobenzene	10.627	77	2087153	46.687	ng		100
65) 4,6-Dinitro-2-methylph...	10.522	198	227493	47.968	ng		95
66) n-Nitrosodiphenylamine	10.586	169	1588976	48.041	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	572161	48.631	ng		100
68) Hexachlorobenzene	11.022	284	605103	48.705	ng		99
69) Atrazine	11.110	200	374540	41.179	ng		99
70) Pentachlorophenol	11.210	266	400352	50.809	ng		100
71) Phenanthrene	11.439	178	2521849	46.806	ng		99
72) Anthracene	11.492	178	2522132	46.707	ng		100
73) Carbazole	11.639	167	2220778	46.572	ng		100
74) Di-n-butylphthalate	11.974	149	2839813	46.982	ng		100
75) Fluoranthene	12.627	202	2499217	45.269	ng		99
77) Benzidine	12.739	184	305582	42.453	ng		99
78) Pyrene	12.857	202	2484995	50.178	ng		100
80) Butylbenzylphthalate	13.474	149	929464	51.657	ng		99
81) Benzo(a)anthracene	14.039	228	1777948	47.067	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	520451	48.021	ng		99
83) Chrysene	14.080	228	1694396	48.659	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	1159761	51.766	ng		100
85) Di-n-octyl phthalate	14.645	149	1865081	55.606	ng		100
87) Indeno(1,2,3-cd)pyrene	17.015	276	1740850	52.510	ng		100
88) Benzo(b)fluoranthene	15.092	252	1603729	45.220	ng		100
89) Benzo(k)fluoranthene	15.121	252	1516995	50.326	ng		100
90) Benzo(a)pyrene	15.462	252	1379319	48.495	ng		100
91) Dibenzo(a,h)anthracene	17.039	278	1423862	52.616	ng		99
92) Benzo(g,h,i)perylene	17.474	276	1469480	53.005	ng		99

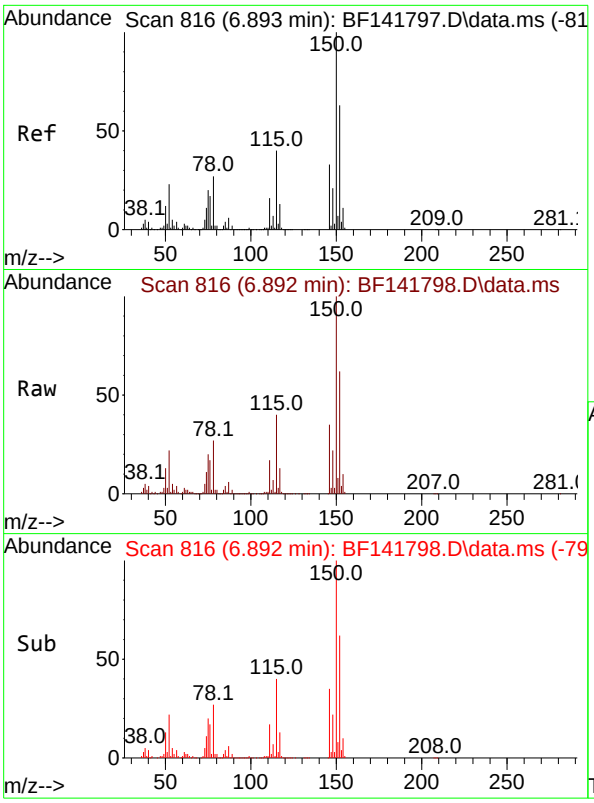
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141798.D
Acq On : 27 Feb 2025 17:46
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Feb 28 01:26:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration



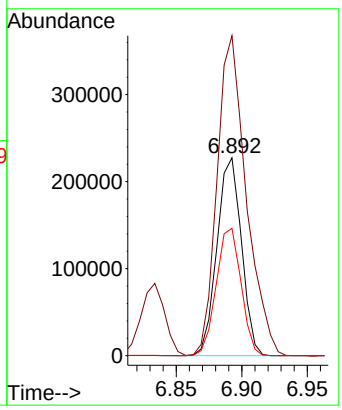


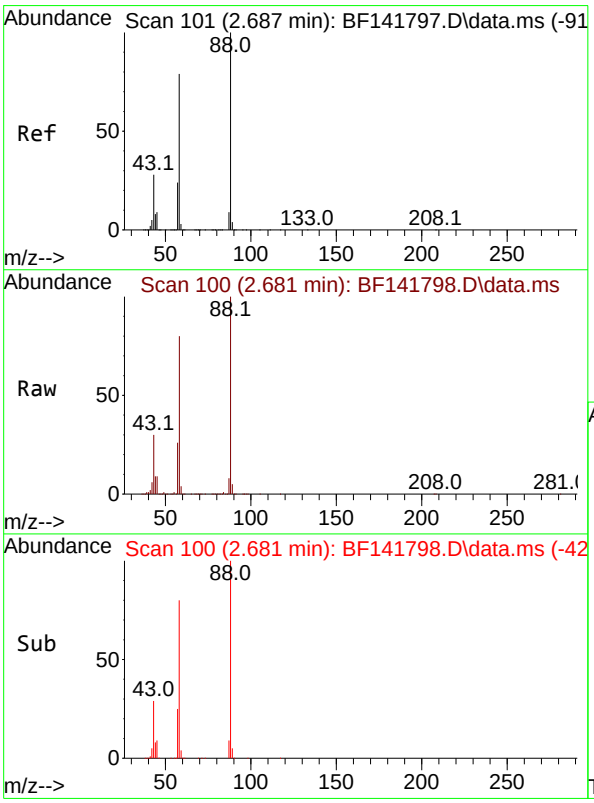
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 8
Delta R.T. -0.001 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 294968

Ion	Ratio	Lower	Upper
152	100		
150	161.7	127.5	191.3
115	64.3	51.4	77.2

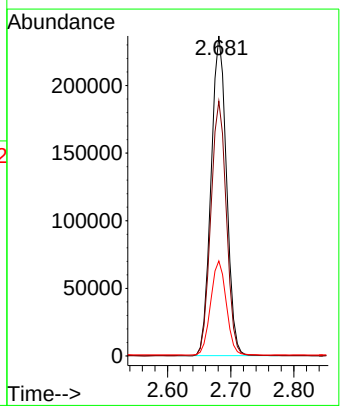


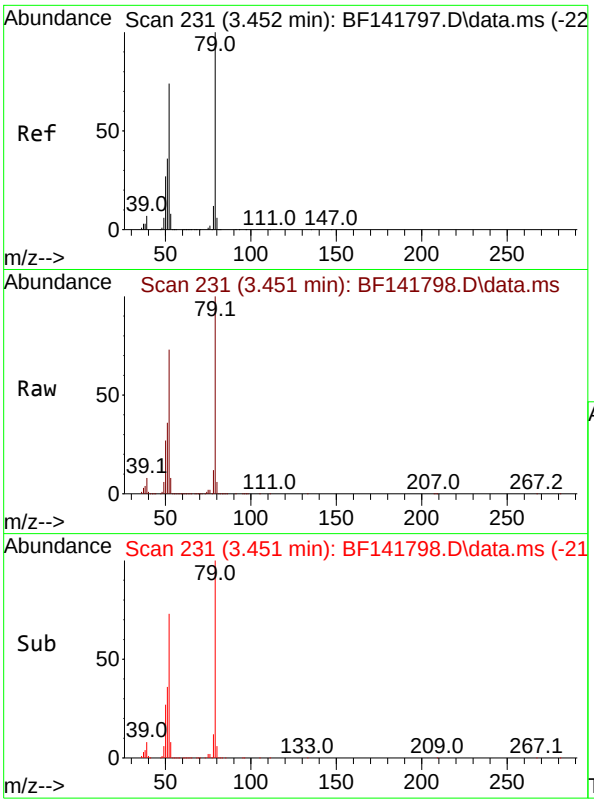


#2
1,4-Dioxane
Concen: 47.937 ng
RT: 2.681 min Scan# 100
Delta R.T. -0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 88 Resp: 401754

Ion	Ratio	Lower	Upper
88	100		
58	80.2	63.9	95.9
43	29.6	23.0	34.6



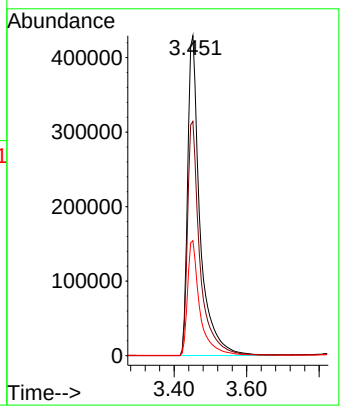


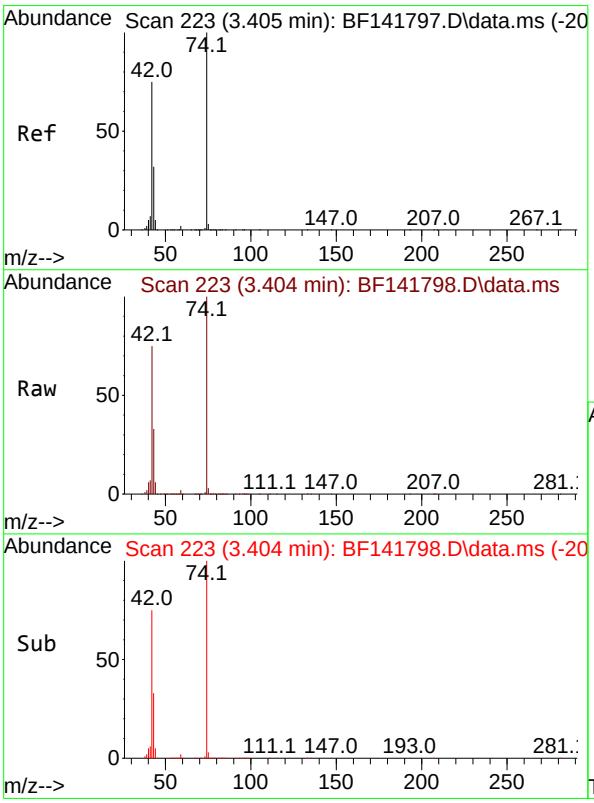
#3
Pyridine
Concen: 48.805 ng
RT: 3.451 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 1017692

Ion	Ratio	Lower	Upper
79	100		
52	73.2	59.0	88.4
51	35.9	29.0	43.4

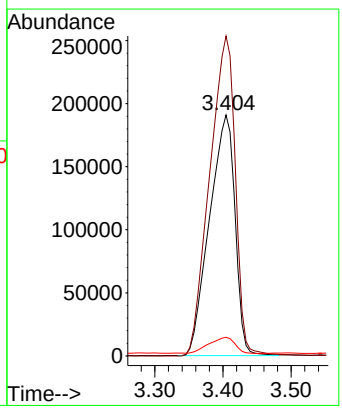


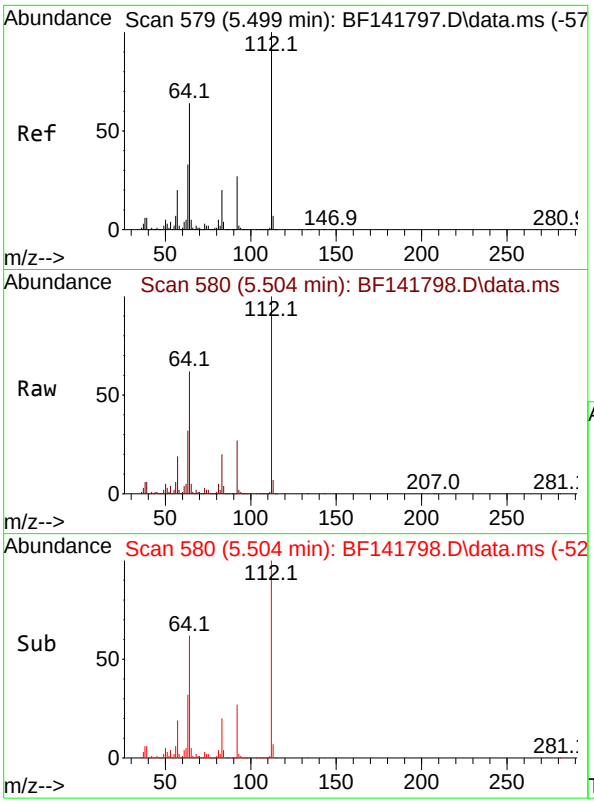


#4
n-Nitrosodimethylamine
Concen: 49.541 ng
RT: 3.404 min Scan# 223
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 42 Resp: 497063

Ion	Ratio	Lower	Upper
42	100		
74	132.8	107.1	160.7
44	7.7	6.6	9.8



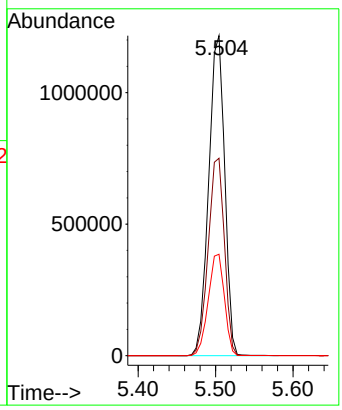


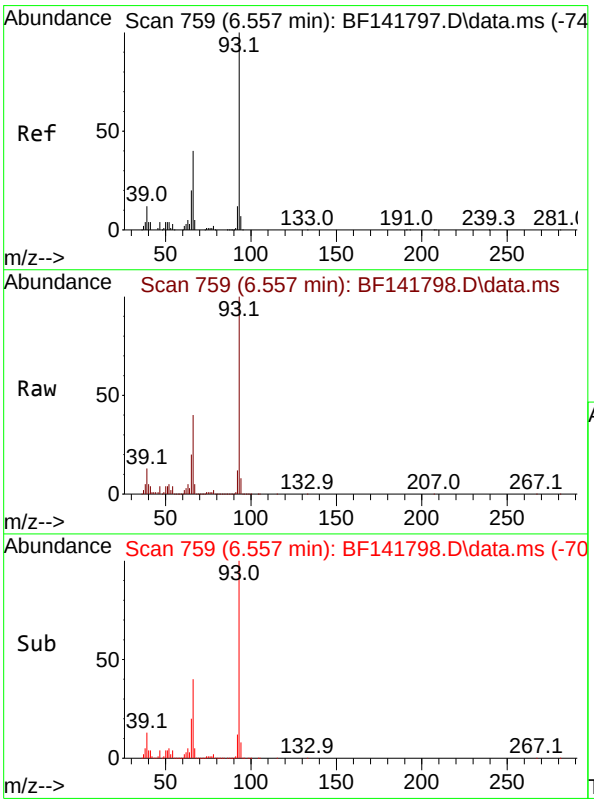
#5
2-Fluorophenol
Concen: 94.593 ng
RT: 5.504 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:112 Resp: 1747157

Ion	Ratio	Lower	Upper
112	100		
64	61.7	51.3	76.9
63	31.7	26.2	39.4

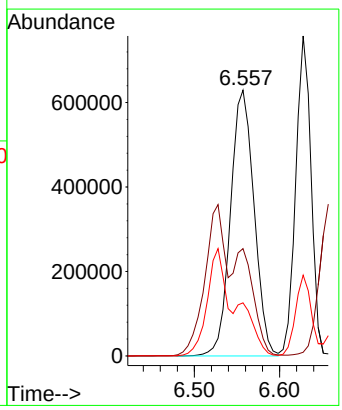


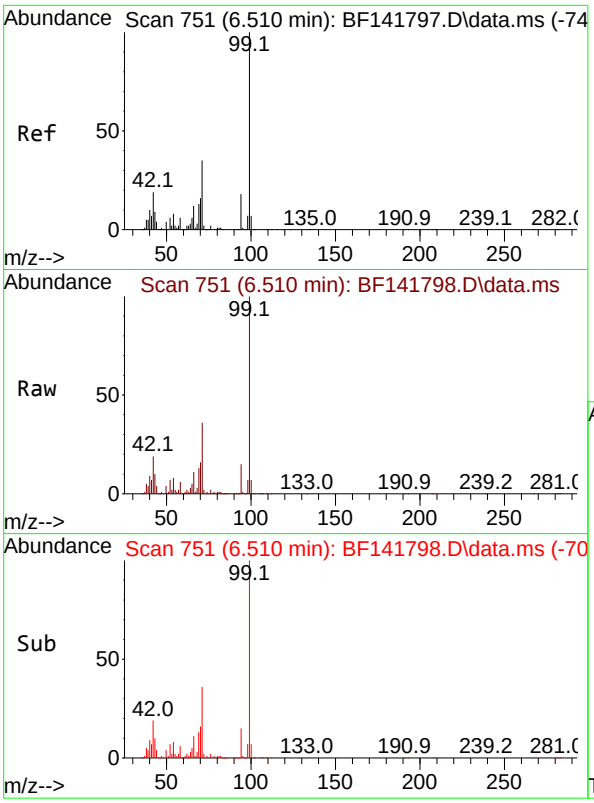


#6
Aniline
Concen: 48.702 ng
RT: 6.557 min Scan# 759
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 93 Resp: 1210646

Ion	Ratio	Lower	Upper
93	100		
66	40.4	32.3	48.5
65	20.0	15.9	23.9



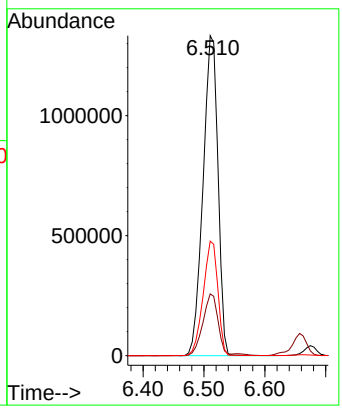


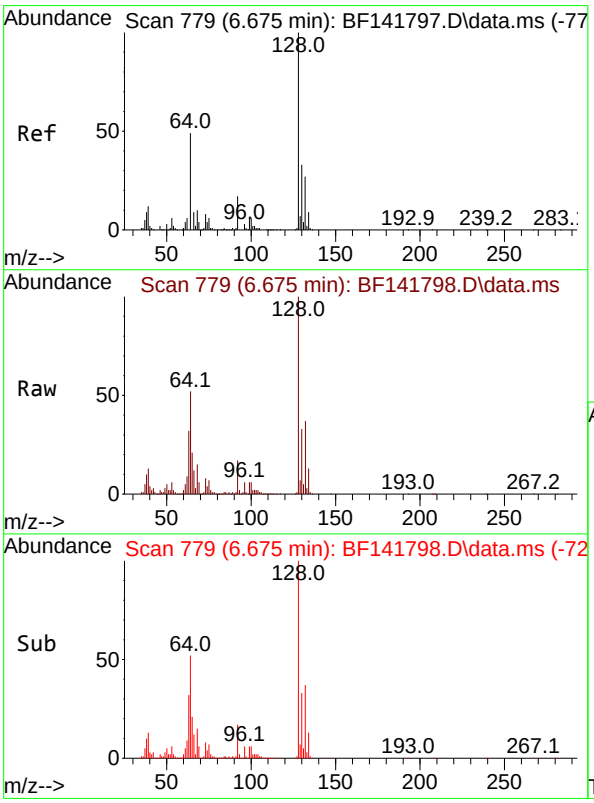
#7
Phenol-d6
Concen: 94.557 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 99 Resp: 2273216

Ion	Ratio	Lower	Upper
99	100		
42	19.3	15.2	22.8
71	35.8	28.2	42.2

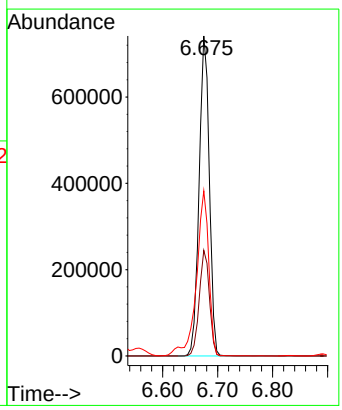


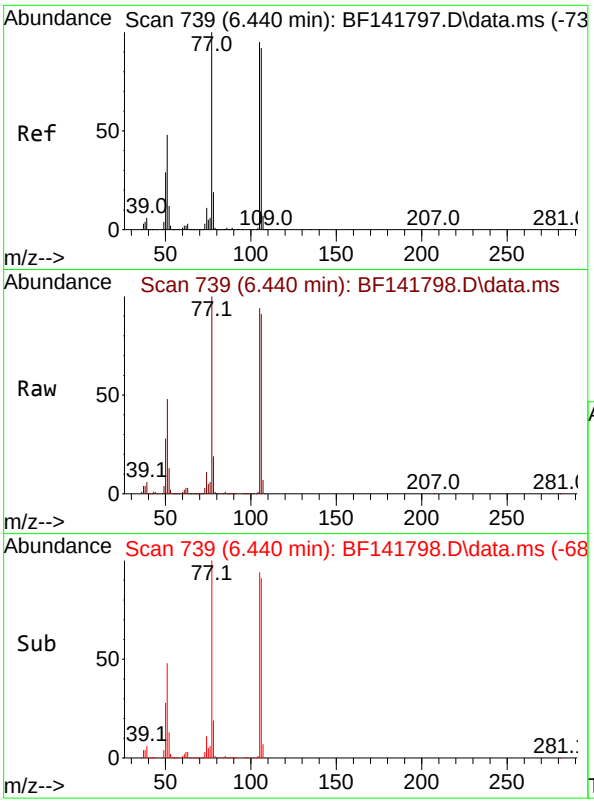


#8
2-Chlorophenol
Concen: 47.940 ng
RT: 6.675 min Scan# 779
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:128 Resp: 957860

Ion	Ratio	Lower	Upper
128	100		
130	33.0	12.6	52.6
64	51.6	31.1	71.1



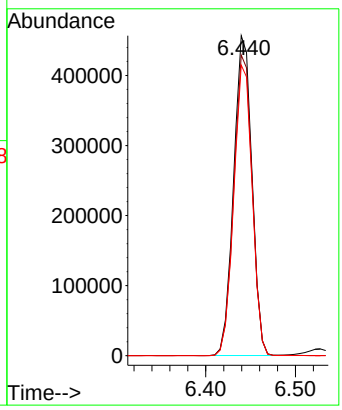


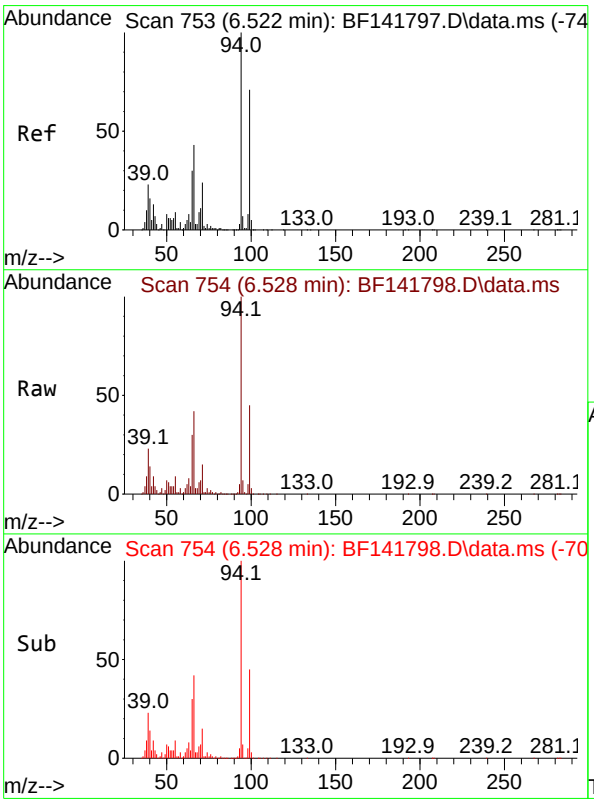
#9
Benzaldehyde
Concen: 46.113 ng
RT: 6.440 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 644844

Ion	Ratio	Lower	Upper
77	100		
105	93.9	75.3	115.3
106	90.8	72.3	112.3

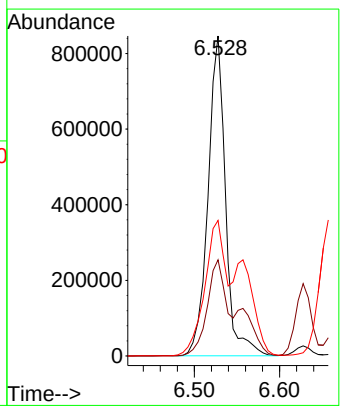


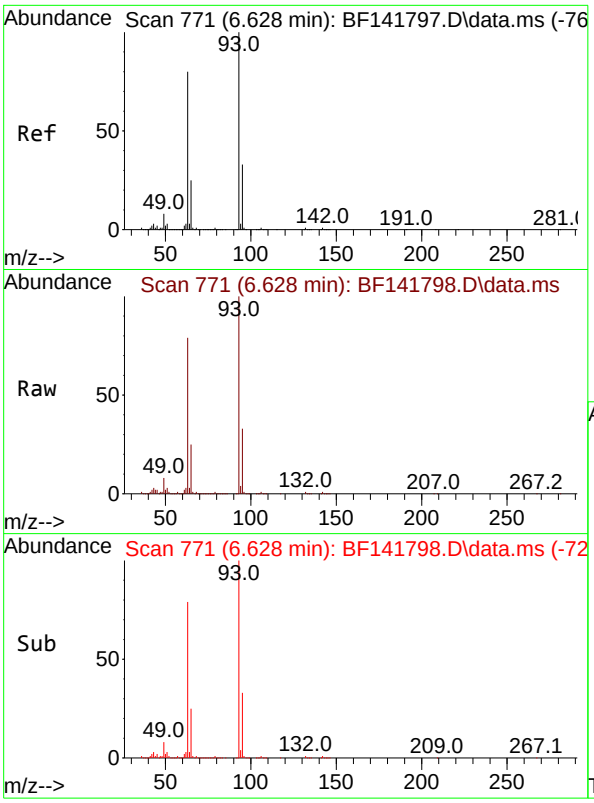


#10
Phenol
Concen: 47.257 ng
RT: 6.528 min Scan# 754
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 94 Resp: 1210418

Ion	Ratio	Lower	Upper
94	100		
65	30.0	10.2	50.2
66	42.3	23.2	63.2



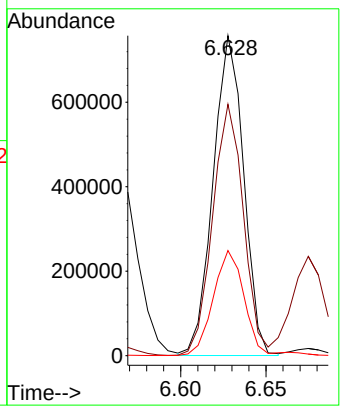


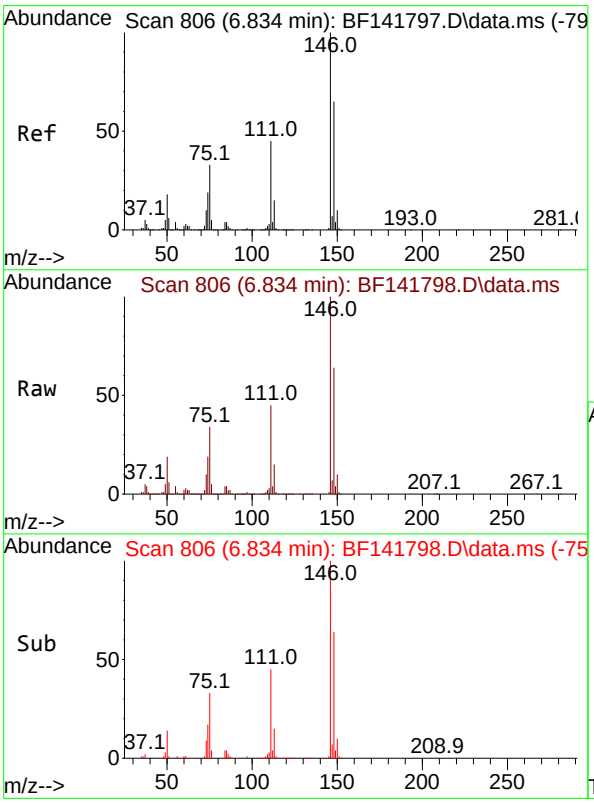
#11
bis(2-Chloroethyl)ether
Concen: 48.169 ng
RT: 6.628 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 93 Resp: 943249

Ion	Ratio	Lower	Upper
93	100		
63	78.6	59.3	99.3
95	32.9	13.2	53.2

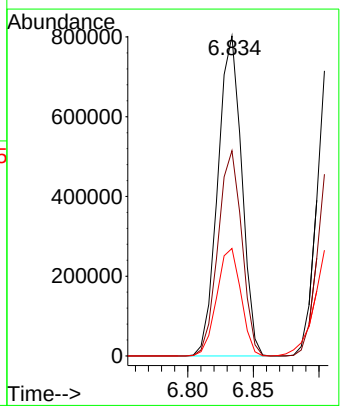


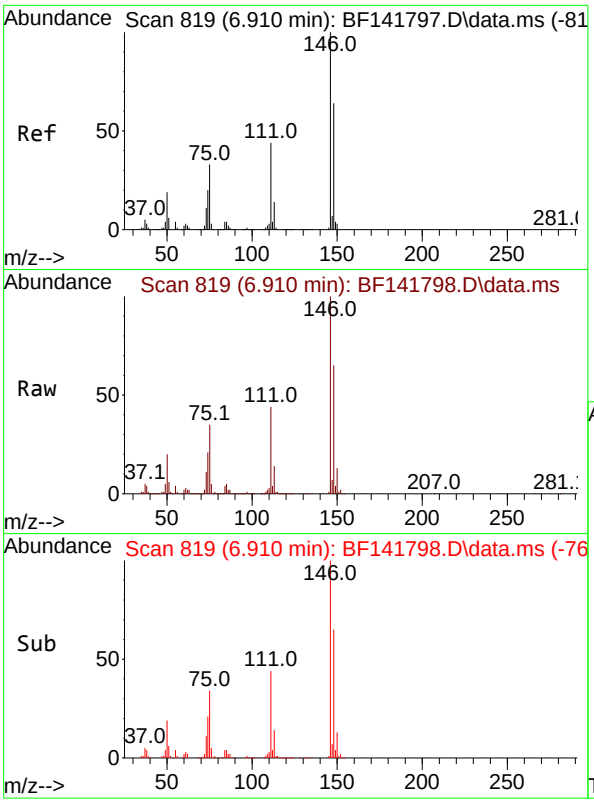


#12
1,3-Dichlorobenzene
Concen: 47.489 ng
RT: 6.834 min Scan# 806
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:146 Resp: 1016156

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.8	77.6
75	33.6	26.2	39.4



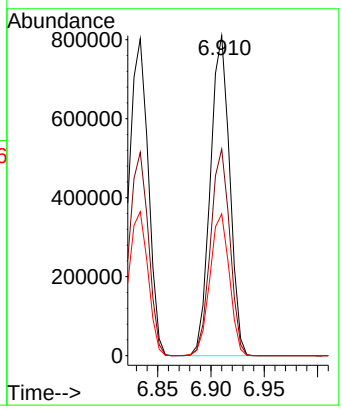


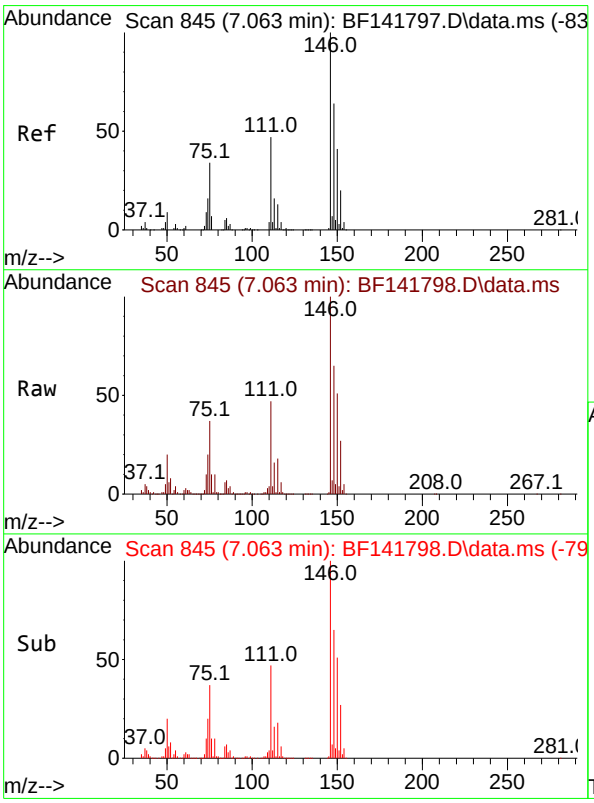
#13
1,4-Dichlorobenzene
Concen: 47.531 ng
RT: 6.910 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:146 Resp: 1024761

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.4	77.2
111	44.3	35.5	53.3

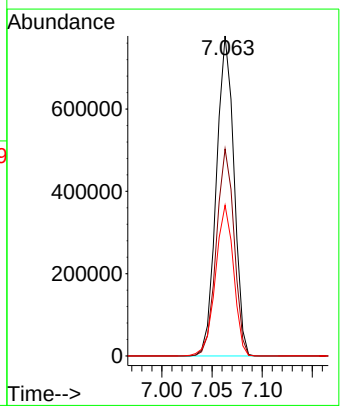


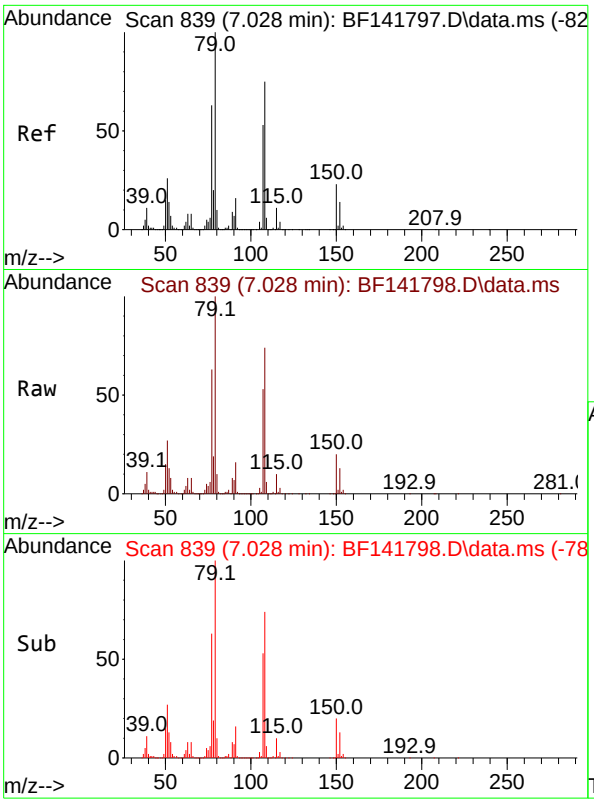


#14
1,2-Dichlorobenzene
Concen: 47.090 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:146 Resp: 948038

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.2	76.8
111	47.1	37.8	56.6



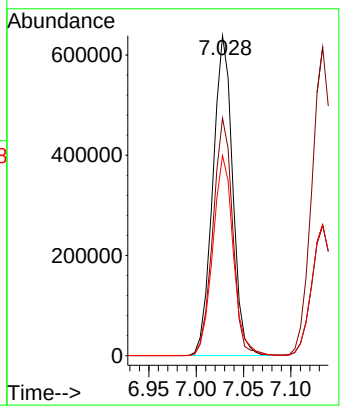


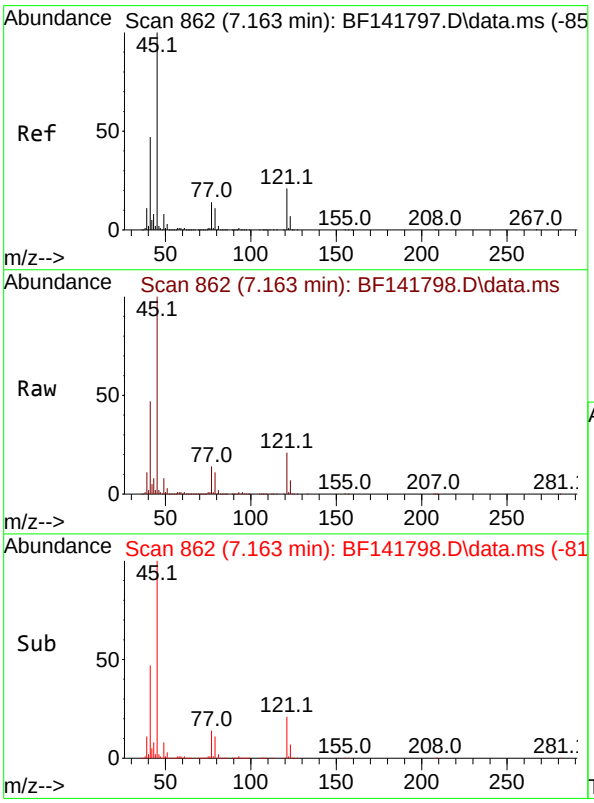
#15
Benzyl Alcohol
Concen: 48.272 ng
RT: 7.028 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 927459

Ion	Ratio	Lower	Upper
79	100		
108	74.2	60.2	90.2
77	62.6	50.2	75.2

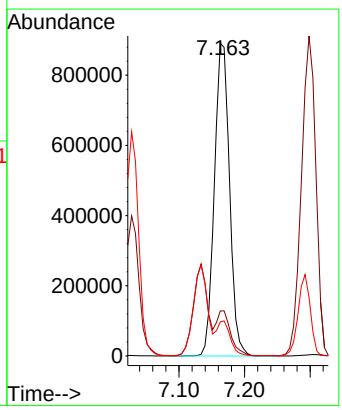


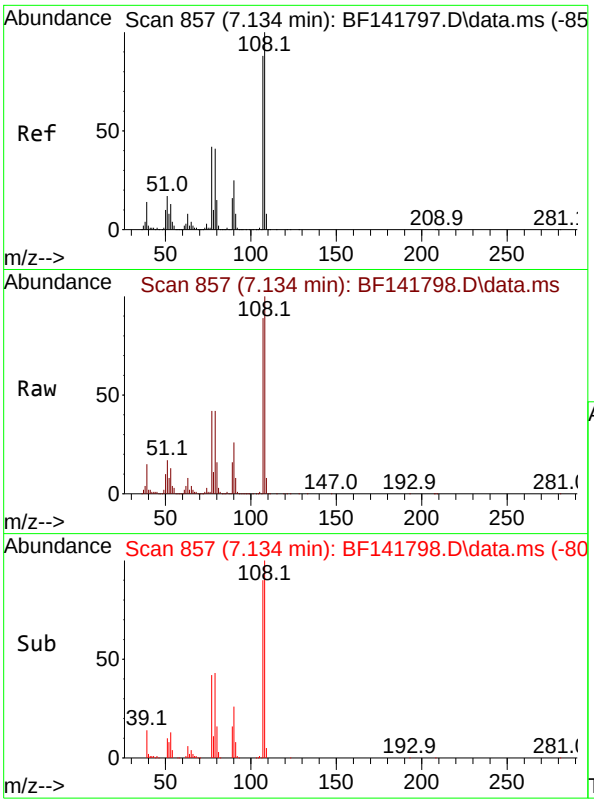


#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.854 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 45 Resp: 1423138

Ion	Ratio	Lower	Upper
45	100		
77	14.4	0.0	34.4
79	10.9	0.0	30.9



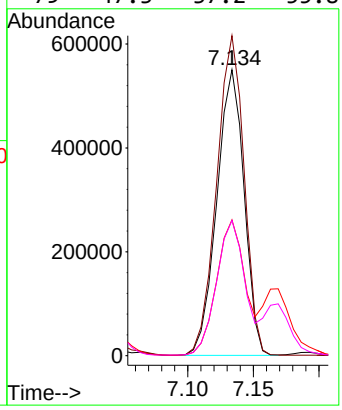


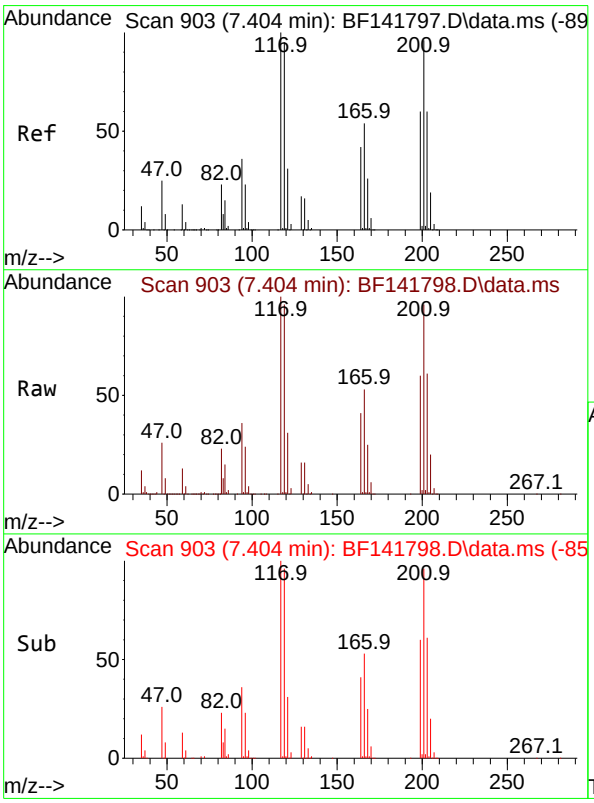
#17
2-Methylphenol
Concen: 48.240 ng
RT: 7.134 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:107 Resp: 795600

Ion	Ratio	Lower	Upper
107	100		
108	111.9	90.6	135.8
77	47.5	37.7	56.5
79	47.3	37.2	55.8

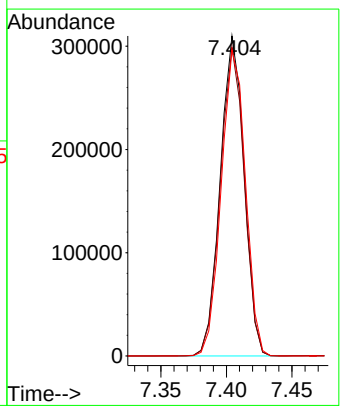


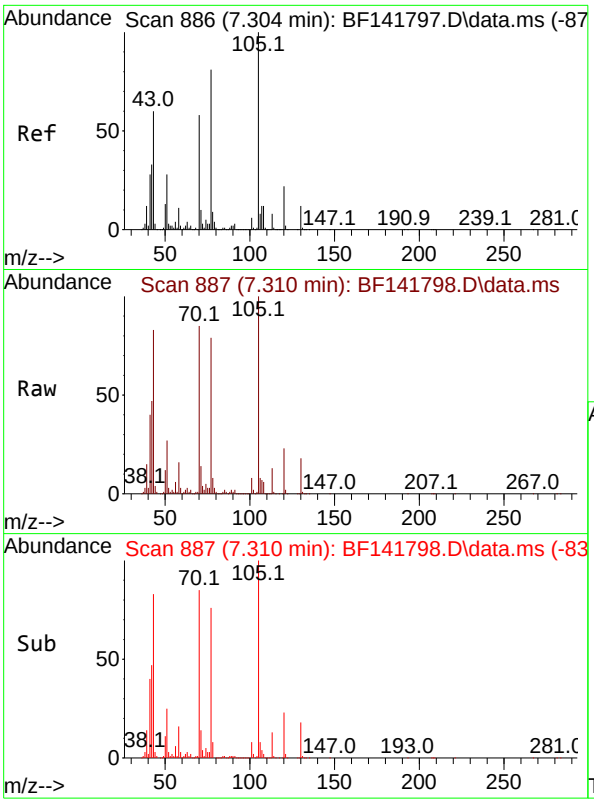


#18
Hexachloroethane
Concen: 48.741 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:117 Resp: 393322

Ion	Ratio	Lower	Upper
117	100		
119	96.4	75.8	113.8
201	95.6	76.7	115.1



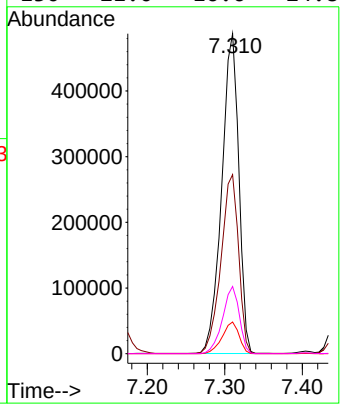


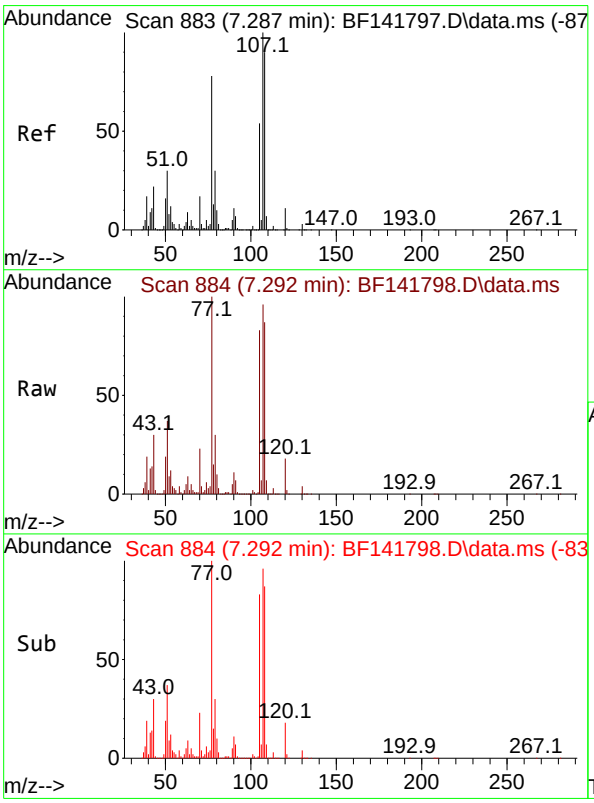
#19
n-Nitroso-di-n-propylamine
Concen: 47.090 ng
RT: 7.310 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 70 Resp: 744192

Ion	Ratio	Lower	Upper
70	100		
42	55.9	45.4	68.0
101	9.9	7.8	11.8
130	21.0	16.6	24.8

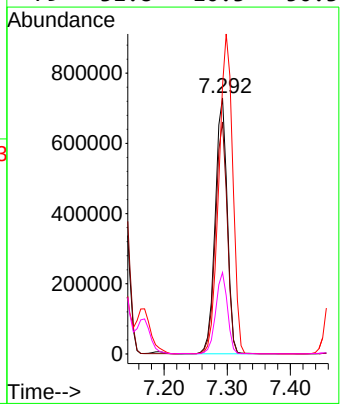


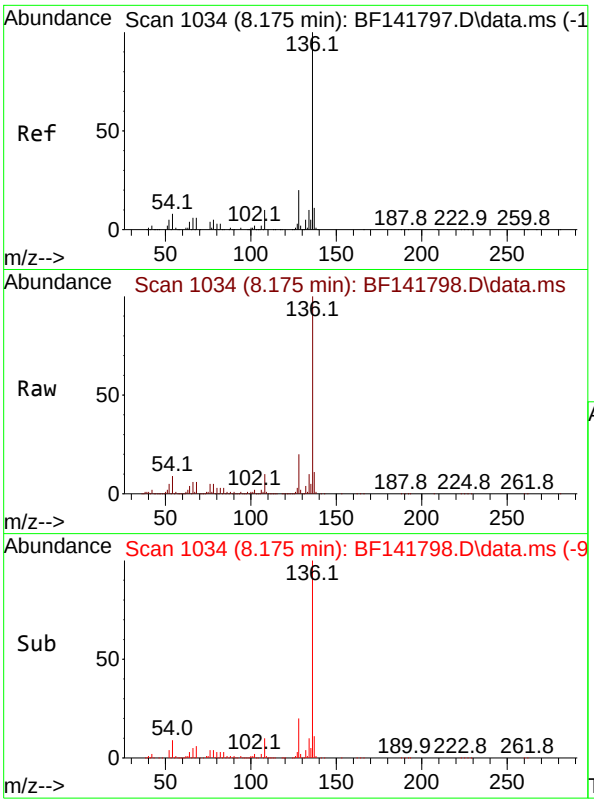


#20
3+4-Methylphenols
Concen: 46.825 ng
RT: 7.292 min Scan# 884
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:107 Resp: 961623

Ion	Ratio	Lower	Upper
107	100		
108	90.6	69.7	109.7
77	104.7	58.3	98.3#
79	31.8	10.3	50.3



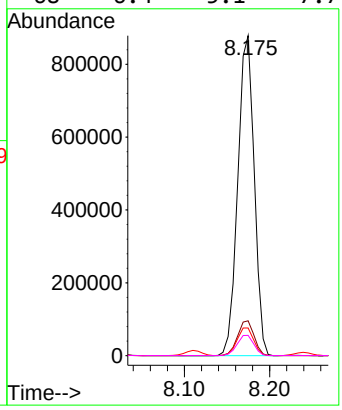


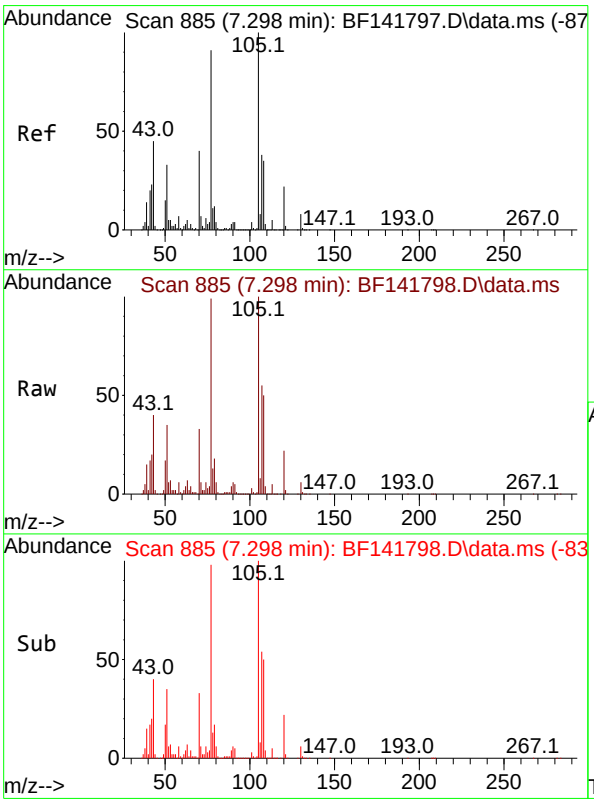
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:136 Resp: 1175652

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	8.7	6.9	10.3
68	6.4	5.1	7.7

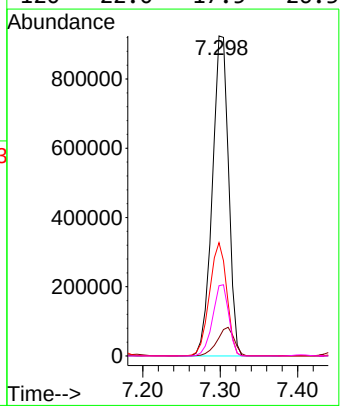


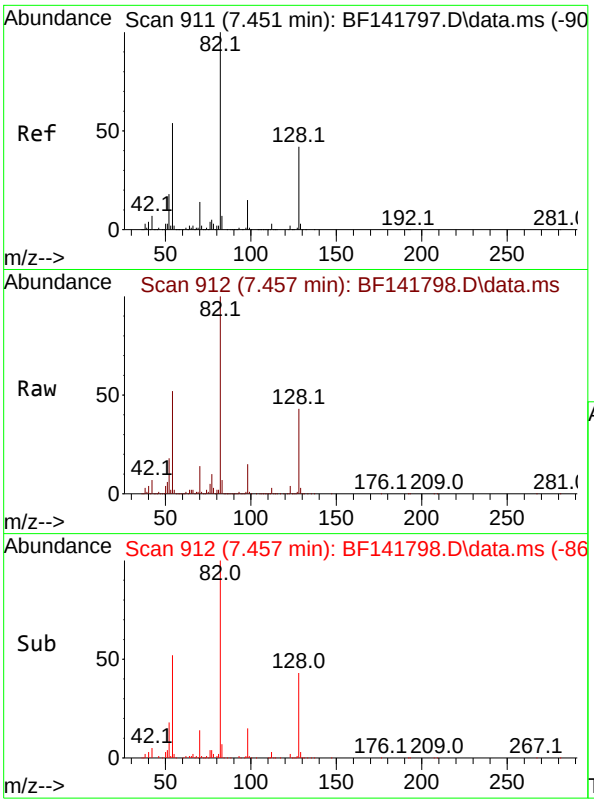


#22
Acetophenone
Concen: 46.798 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:105 Resp: 1339971

Ion	Ratio	Lower	Upper
105	100		
71	5.7	5.4	8.0
51	35.4	26.1	39.1
120	22.0	17.5	26.3



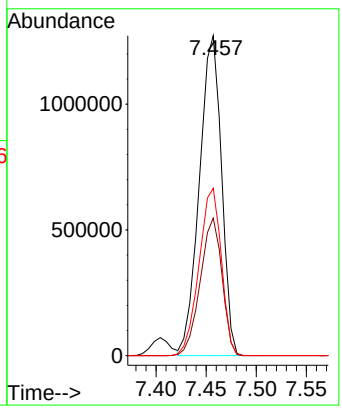


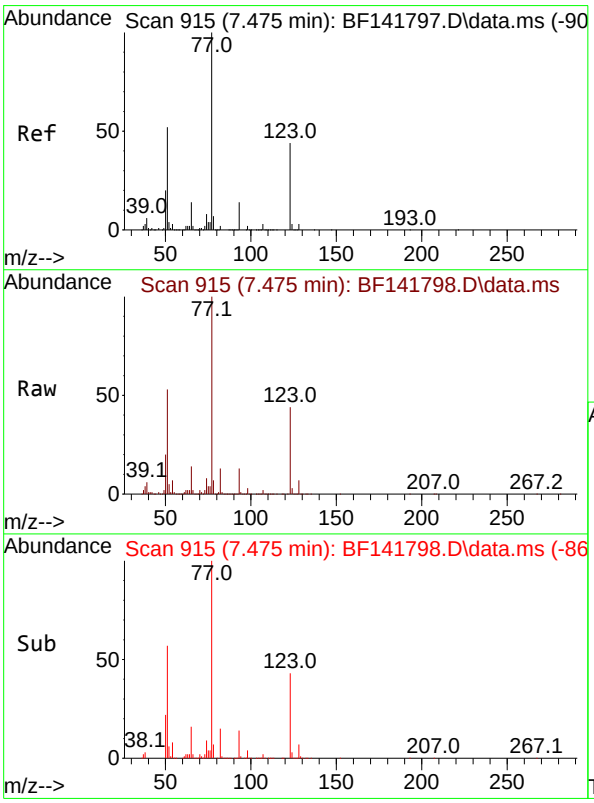
#23
Nitrobenzene-d5
Concen: 106.234 ng
RT: 7.457 min Scan# 91
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 1953916

Ion	Ratio	Lower	Upper
82	100		
128	43.0	33.5	50.3
54	52.3	42.7	64.1

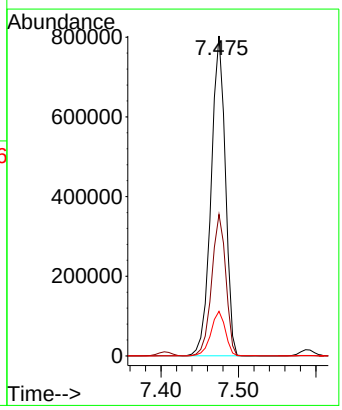


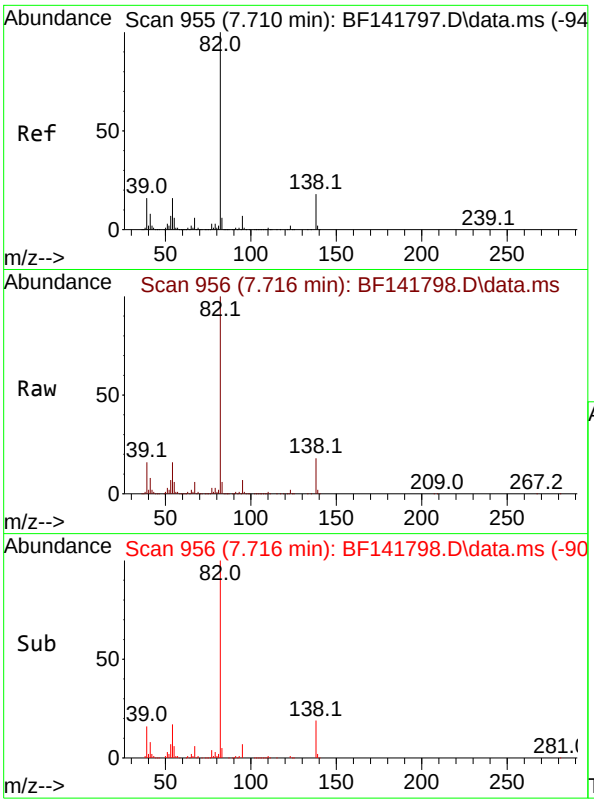


#24
Nitrobenzene
Concen: 52.073 ng
RT: 7.475 min Scan# 915
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 77 Resp: 1025625

Ion	Ratio	Lower	Upper
77	100		
123	44.2	35.8	53.8
65	14.0	11.2	16.8



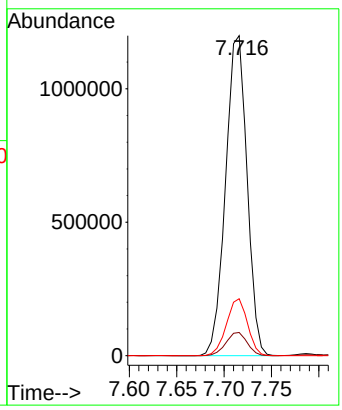


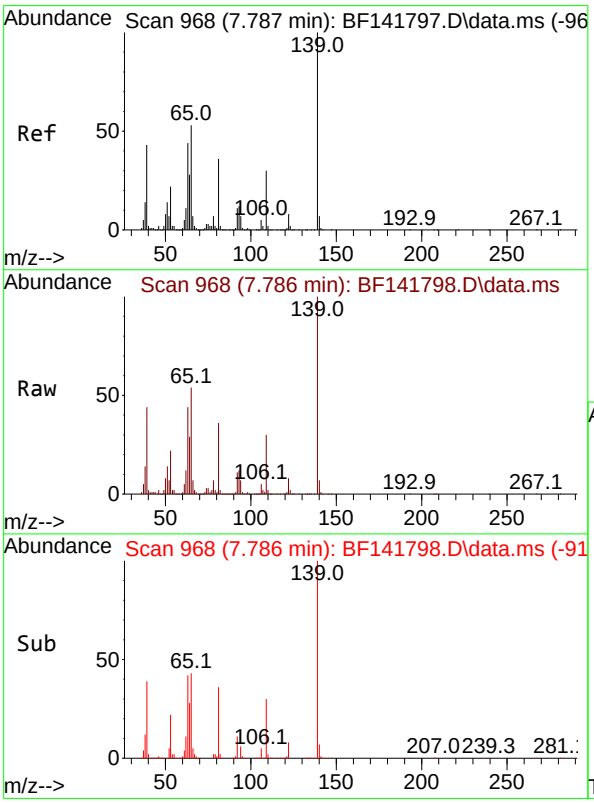
#25
Isophorone
Concen: 47.744 ng
RT: 7.716 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 1886546

Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.8
138	17.8	14.0	21.0

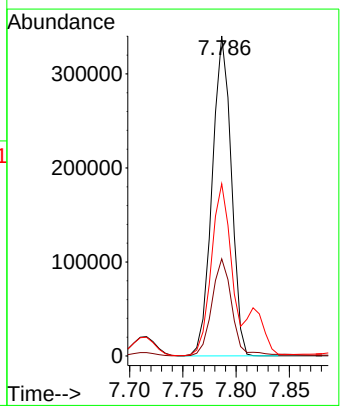


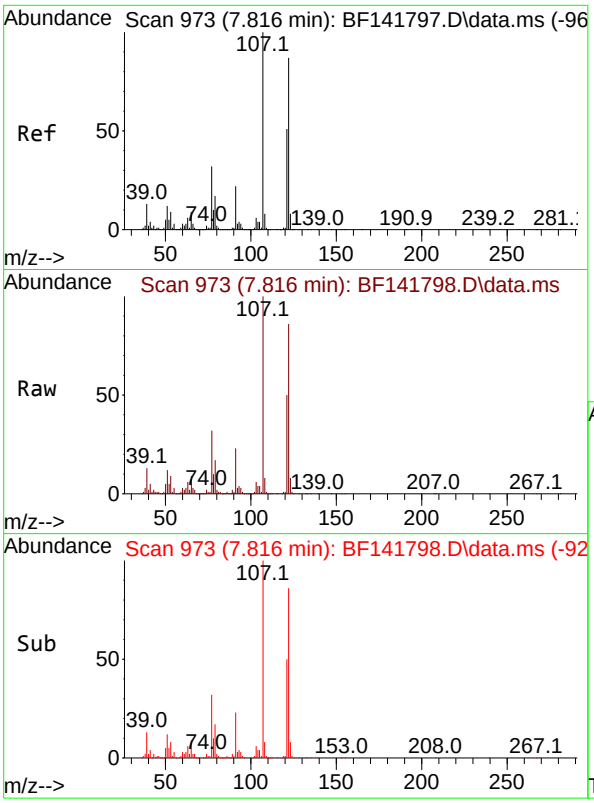


#26
2-Nitrophenol
Concen: 48.354 ng
RT: 7.786 min Scan# 968
Delta R.T. -0.001 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:139 Resp: 425765

Ion	Ratio	Lower	Upper
139	100		
109	30.4	24.1	36.1
65	53.8	42.3	63.5



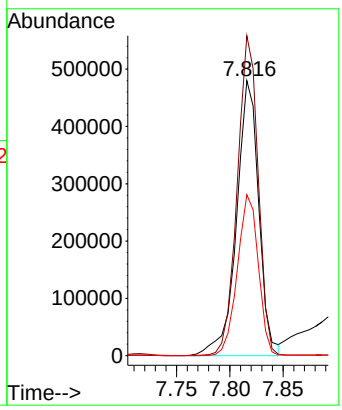


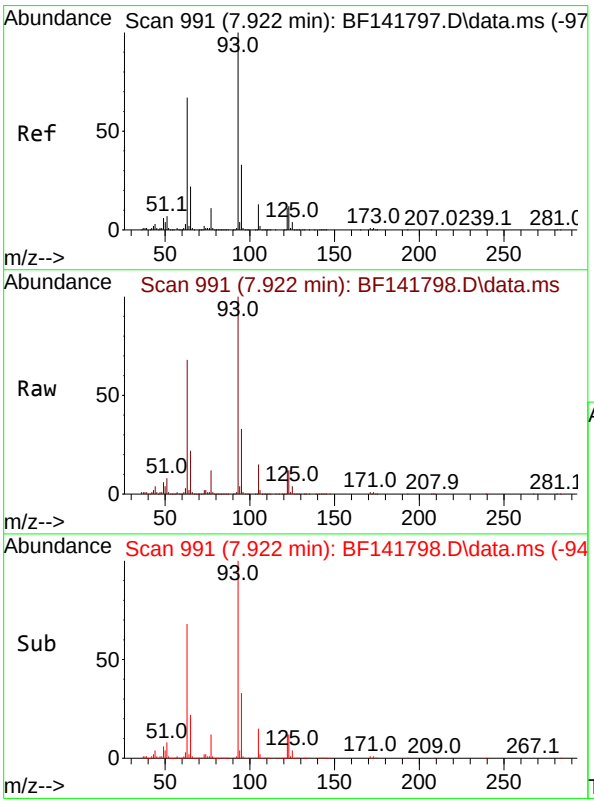
#27
2,4-Dimethylphenol
Concen: 48.082 ng
RT: 7.816 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:122 Resp: 698393

Ion	Ratio	Lower	Upper
122	100		
107	116.4	92.5	138.7
121	58.6	47.1	70.7

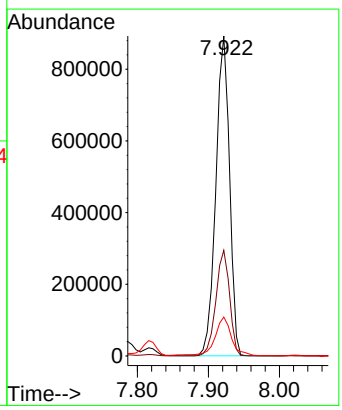


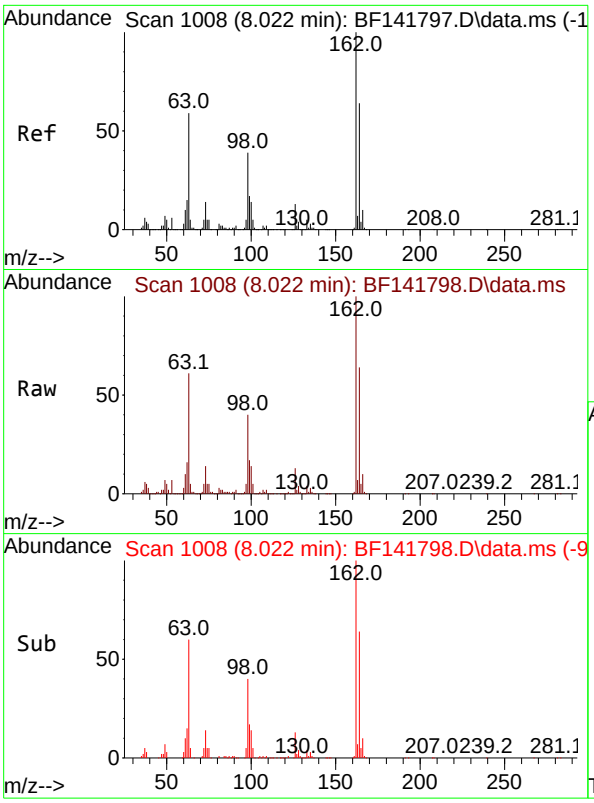


#28
bis(2-Chloroethoxy)methane
Concen: 47.060 ng
RT: 7.922 min Scan# 991
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 93 Resp: 1186179

Ion	Ratio	Lower	Upper
93	100		
95	33.0	26.5	39.7
123	12.2	10.0	15.0



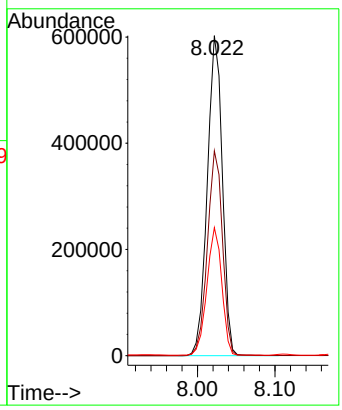


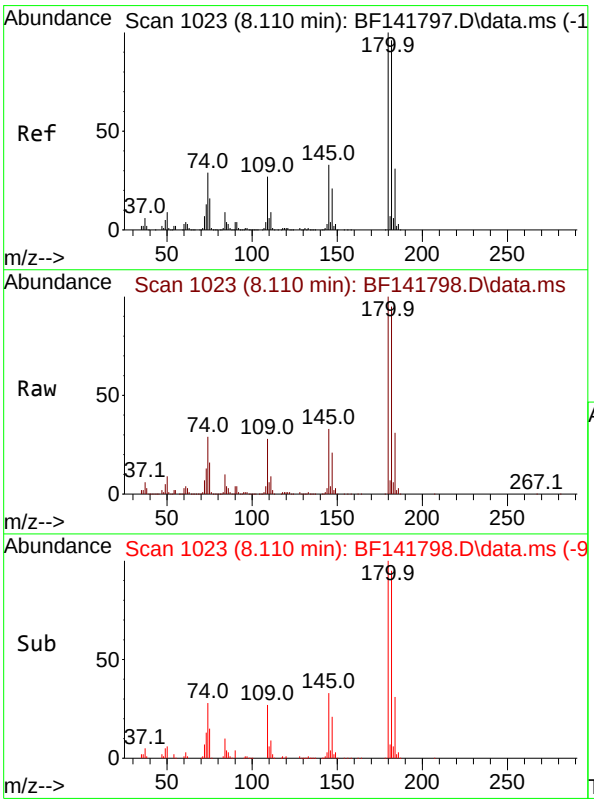
#29
2,4-Dichlorophenol
Concen: 48.527 ng
RT: 8.022 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 813150

Ion	Ratio	Lower	Upper
162	100		
164	64.0	44.3	84.3
98	40.0	19.6	59.6

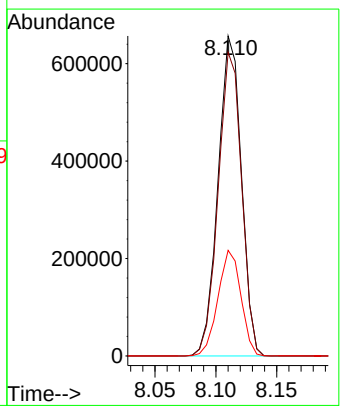


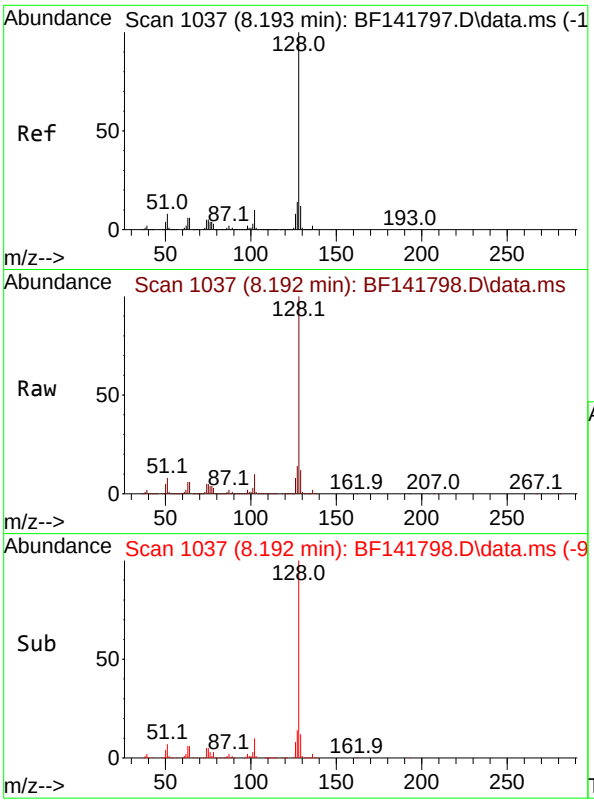


#30
1,2,4-Trichlorobenzene
Concen: 47.693 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:180 Resp: 875703

Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.8	115.2
145	33.0	26.4	39.6



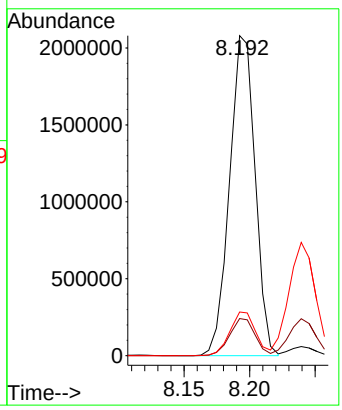


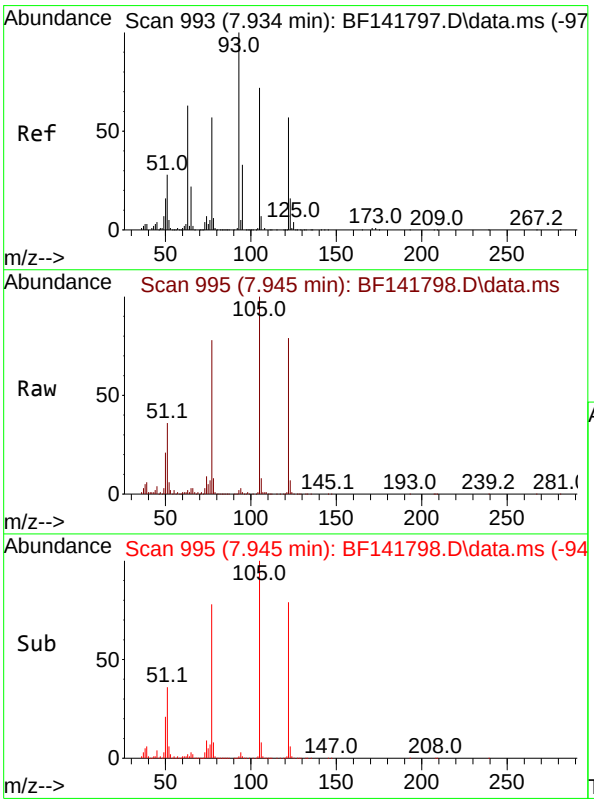
#31
Naphthalene
Concen: 46.685 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:128 Resp: 2820879

Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.2	13.8
127	13.7	11.0	16.4

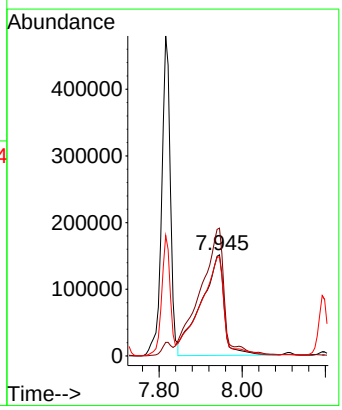


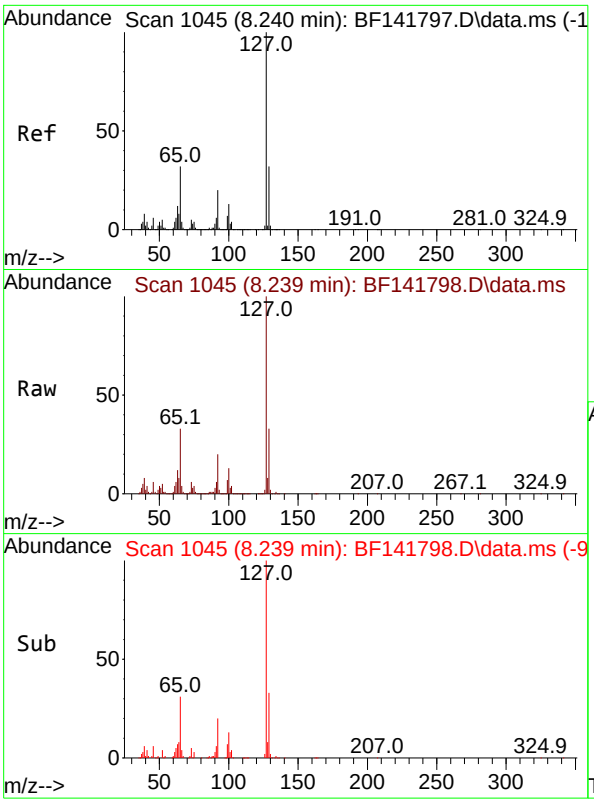


#32
Benzoic acid
Concen: 48.392 ng
RT: 7.945 min Scan# 995
Delta R.T. 0.011 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:122 Resp: 587574

Ion	Ratio	Lower	Upper
122	100		
105	126.4	105.8	145.8
77	98.1	79.9	119.9



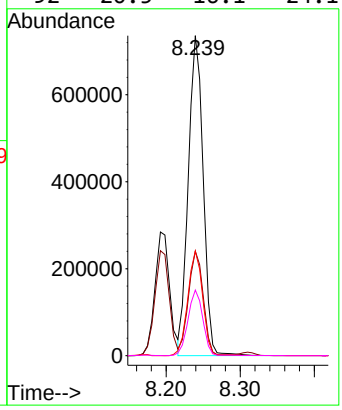


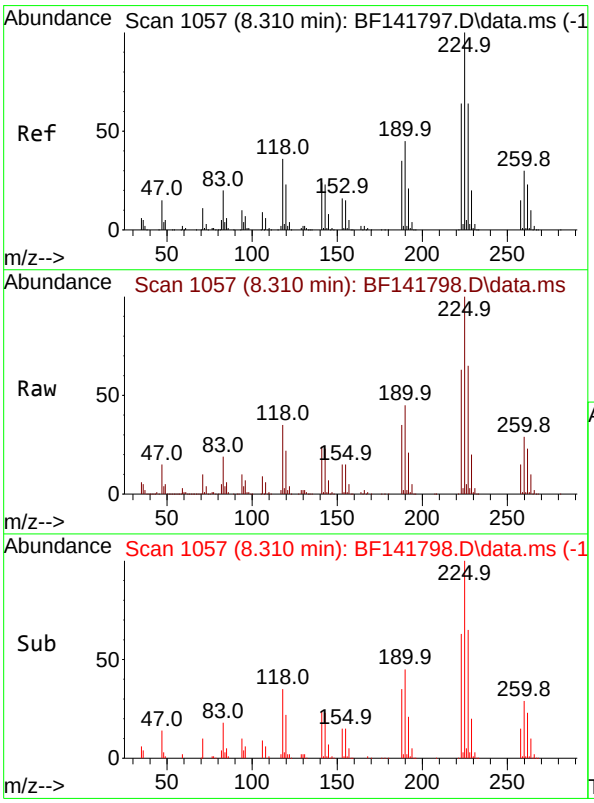
#33
4-Chloroaniline
Concen: 46.432 ng
RT: 8.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:127 Resp: 1028715

Ion	Ratio	Lower	Upper
127	100		
129	32.7	26.1	39.1
65	32.7	25.7	38.5
92	20.5	16.1	24.1

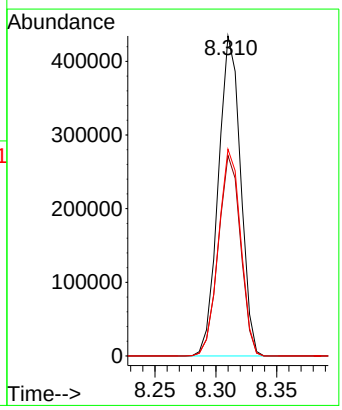


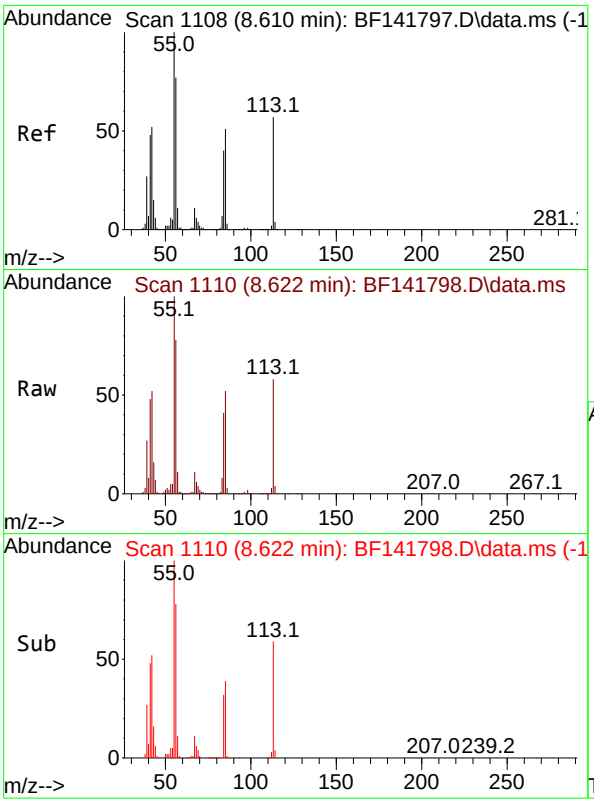


#34
Hexachlorobutadiene
Concen: 48.351 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:225 Resp: 551683

Ion	Ratio	Lower	Upper
225	100		
223	62.7	51.4	77.2
227	64.6	51.6	77.4



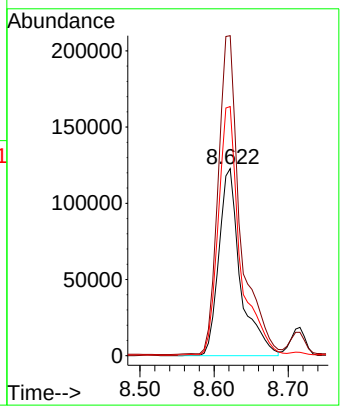


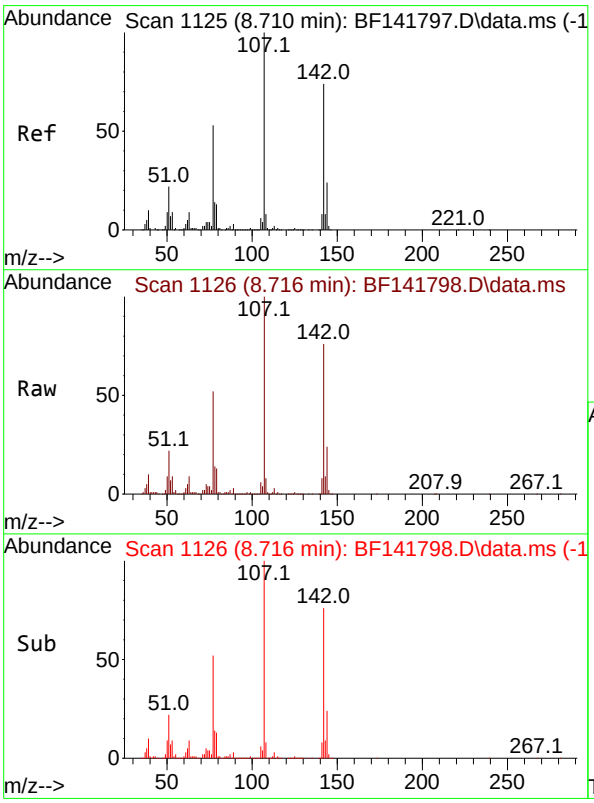
#35
Caprolactam
Concen: 48.241 ng
RT: 8.622 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:113 Resp: 248725

Ion	Ratio	Lower	Upper
113	100		
55	171.1	155.6	195.6
56	133.2	114.6	154.6

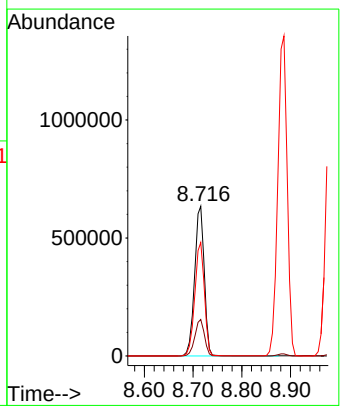


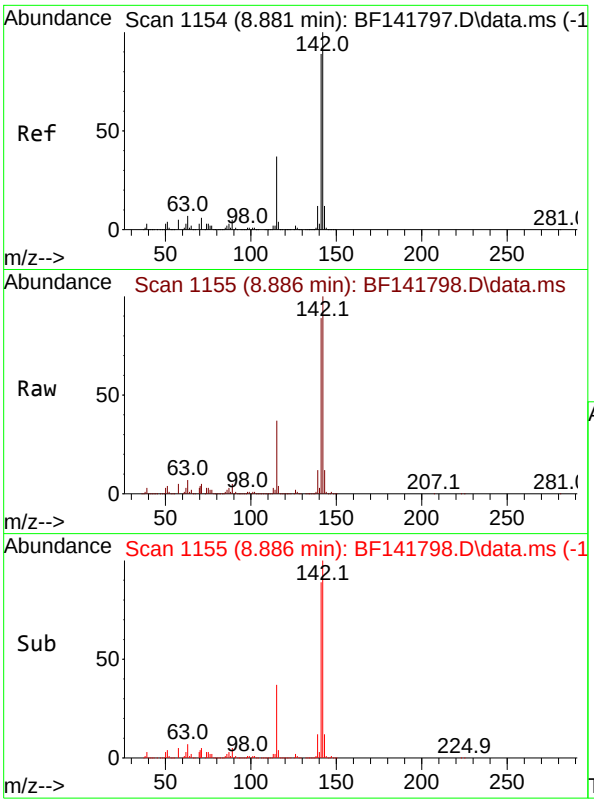


#36
4-Chloro-3-methylphenol
Concen: 47.314 ng
RT: 8.716 min Scan# 1126
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:107 Resp: 880725

Ion	Ratio	Lower	Upper
107	100		
144	24.4	19.4	29.0
142	75.8	59.4	89.0



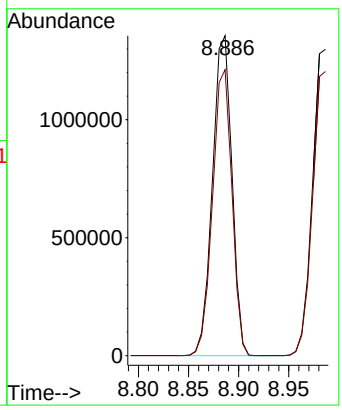


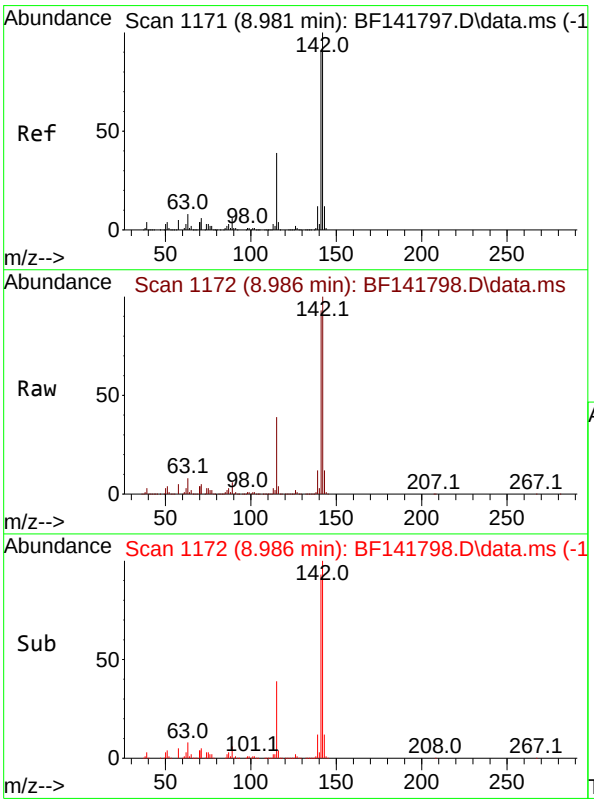
#37
2-Methylnaphthalene
Concen: 46.064 ng
RT: 8.886 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:142 Resp: 1825639

Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.1	106.7

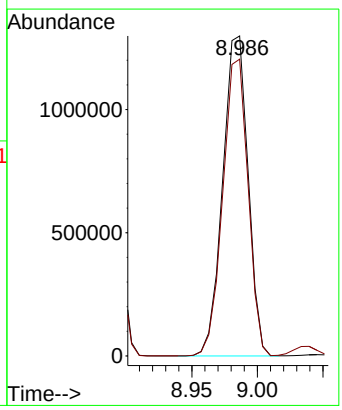


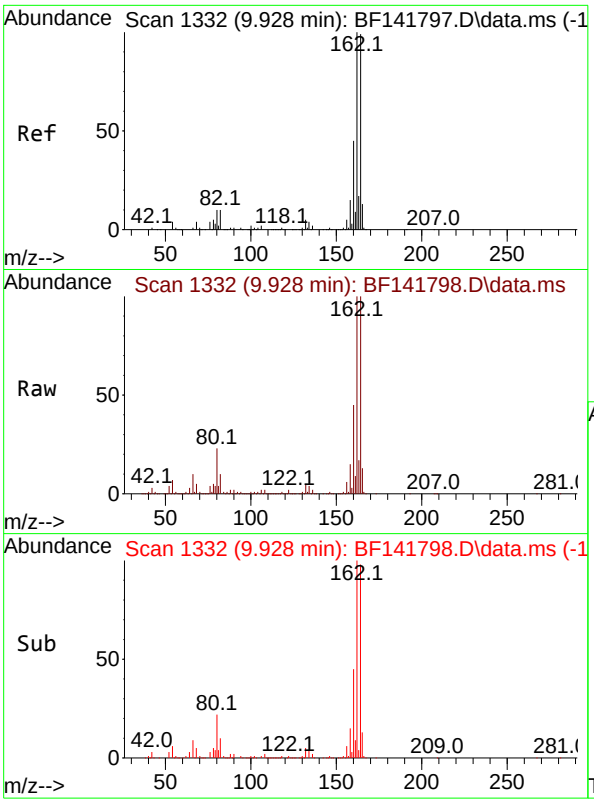


#38
1-Methylnaphthalene
Concen: 45.899 ng
RT: 8.986 min Scan# 1172
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:142 Resp: 1745465

Ion	Ratio	Lower	Upper
142	100		
141	92.7	73.1	109.7



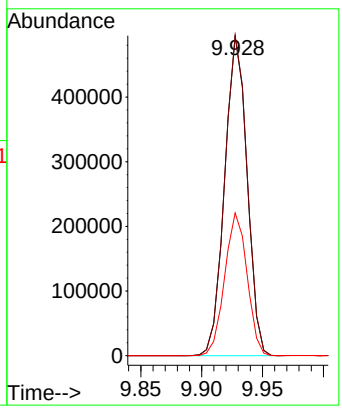


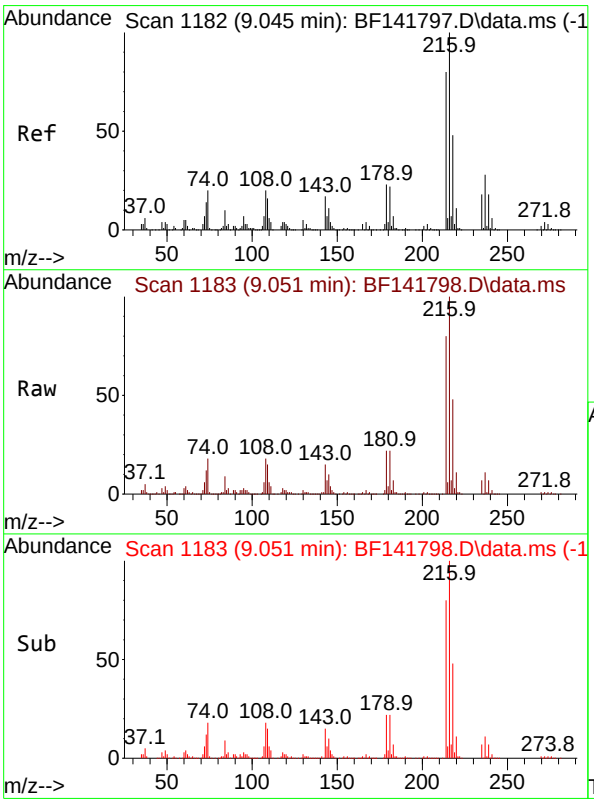
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:164 Resp: 632437

Ion	Ratio	Lower	Upper
164	100		
162	100.1	80.6	120.8
160	44.7	36.3	54.5

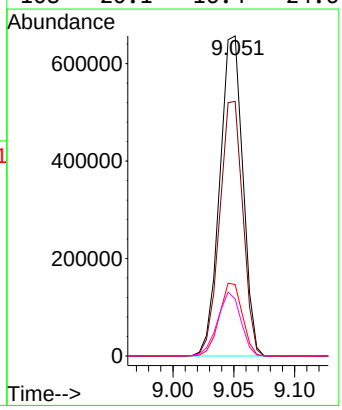


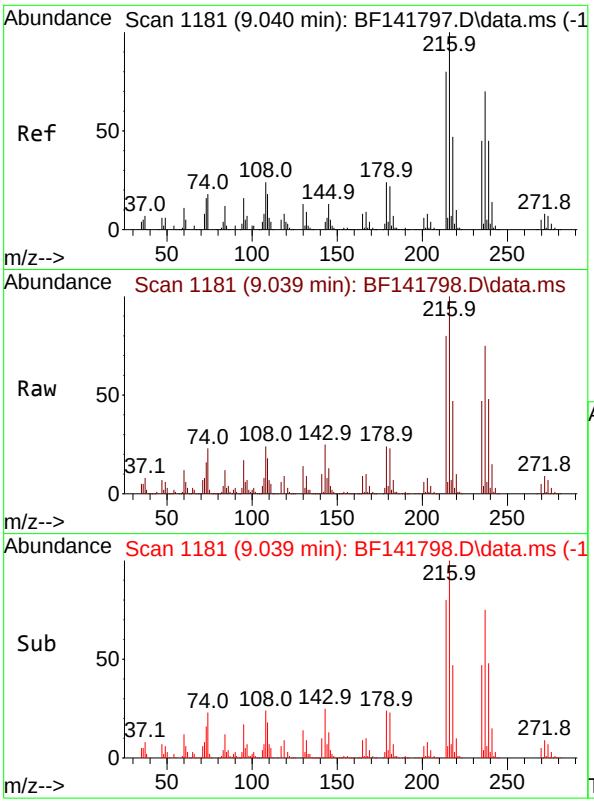


#40
1,2,4,5-Tetrachlorobenzene
Concen: 47.555 ng
RT: 9.051 min Scan# 1183
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:216 Resp: 868619

Ion	Ratio	Lower	Upper
216	100		
214	79.7	63.5	95.3
179	22.6	18.1	27.1
108	20.1	16.4	24.6



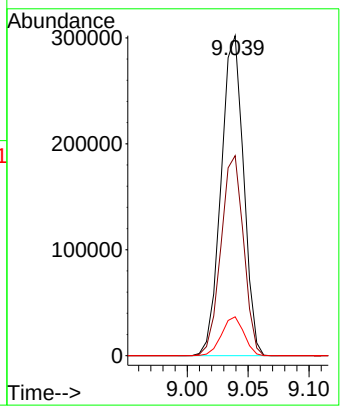


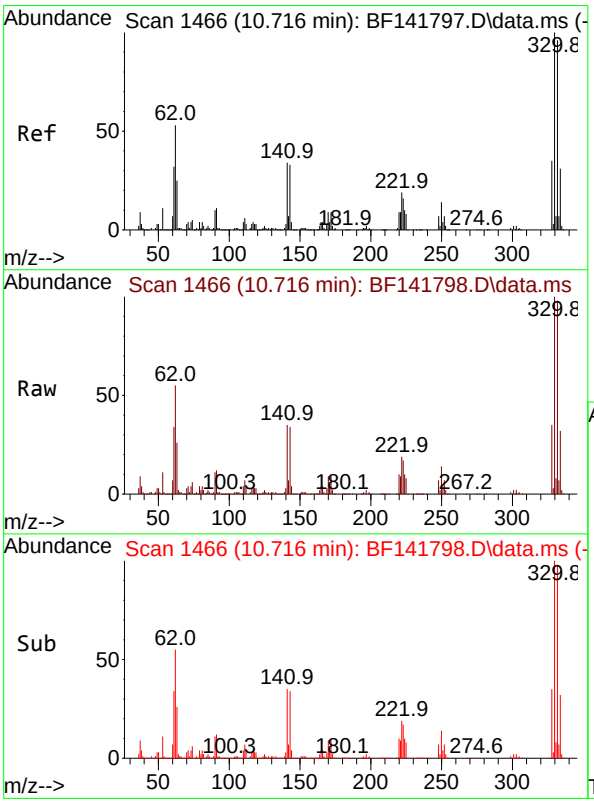
#41
Hexachlorocyclopentadiene
Concen: 50.930 ng
RT: 9.039 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:237 Resp: 388222

Ion	Ratio	Lower	Upper
237	100		
235	62.5	43.3	83.3
272	12.2	0.0	31.9

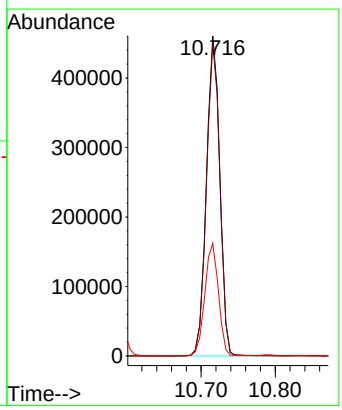


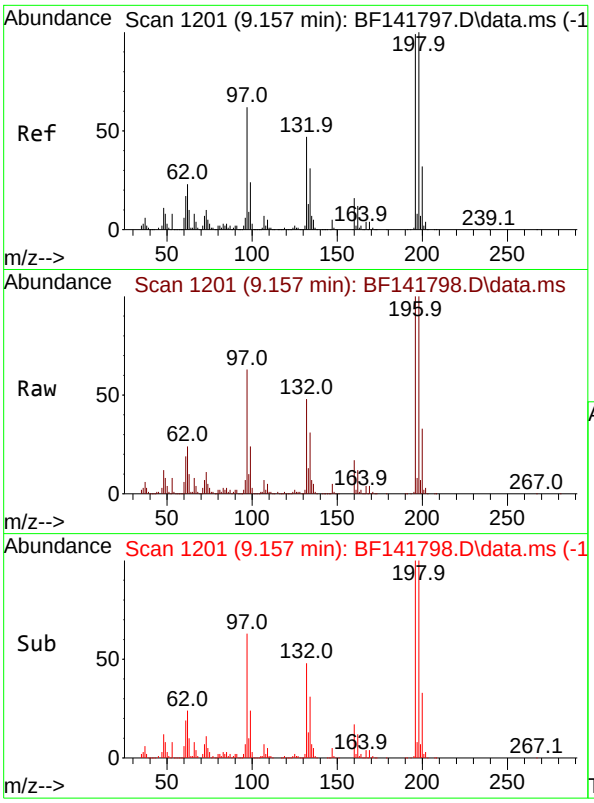


#42
2,4,6-Tribromophenol
Concen: 97.701 ng
RT: 10.716 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:330 Resp: 580093

Ion	Ratio	Lower	Upper
330	100		
332	97.8	76.6	115.0
141	35.8	29.0	43.4



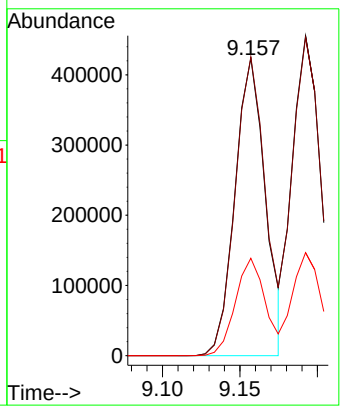


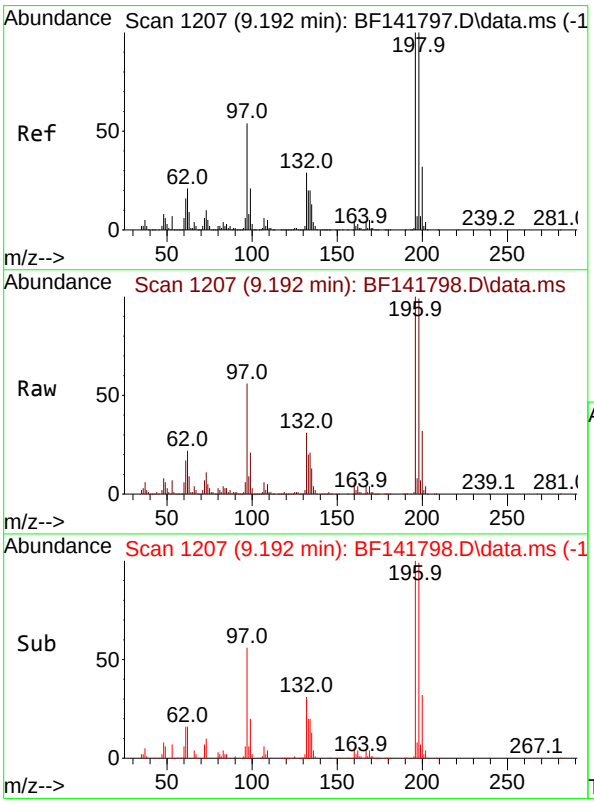
#43
2,4,6-Trichlorophenol
Concen: 49.010 ng
RT: 9.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:196 Resp: 578263

Ion	Ratio	Lower	Upper
196	100		
198	100.5	80.4	120.6
200	32.7	25.7	38.5

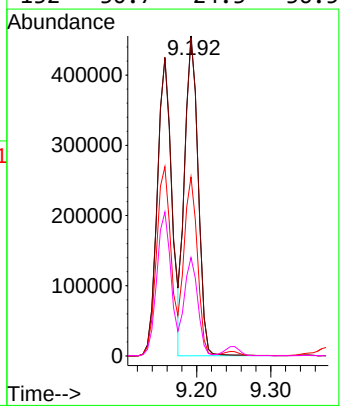


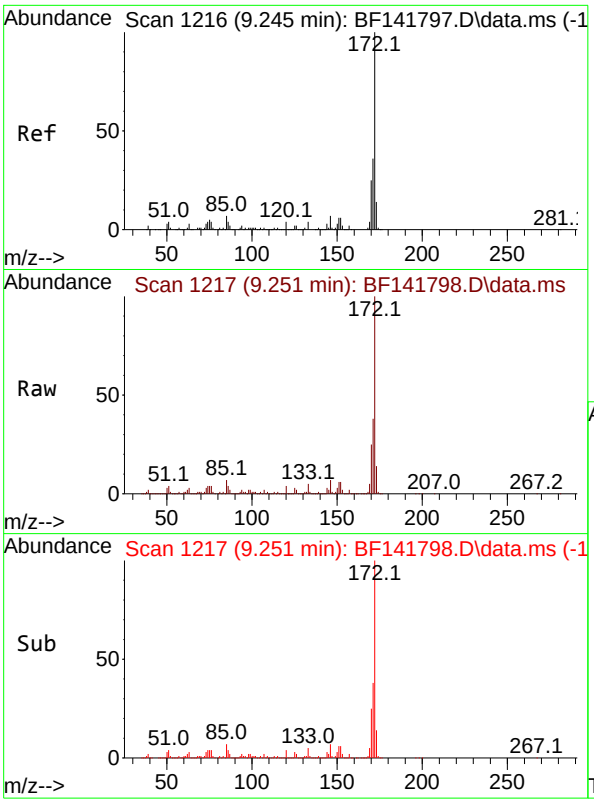


#44
2,4,5-Trichlorophenol
Concen: 49.213 ng
RT: 9.192 min Scan# 1207
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:196 Resp: 574978

Ion	Ratio	Lower	Upper
196	100		
198	99.5	79.7	119.5
97	55.9	44.2	66.2
132	30.7	24.3	36.5



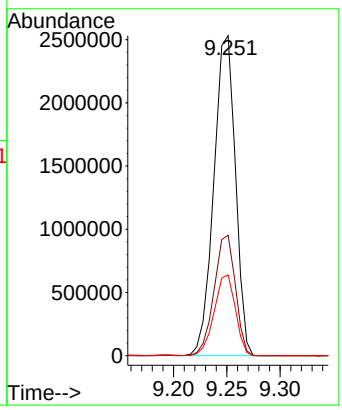


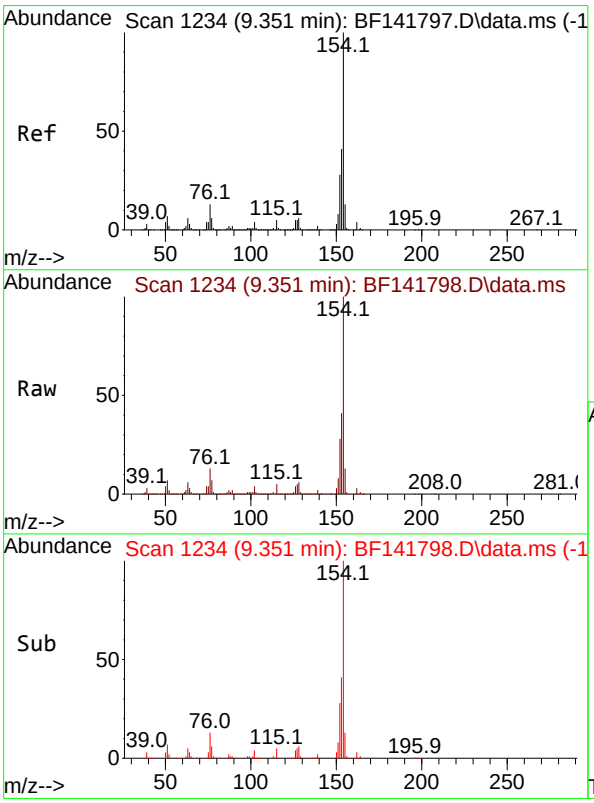
#45
2-Fluorobiphenyl
Concen: 90.435 ng
RT: 9.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:172 Resp: 3566962

Ion	Ratio	Lower	Upper
172	100		
171	37.6	29.2	43.8
170	25.2	19.7	29.5

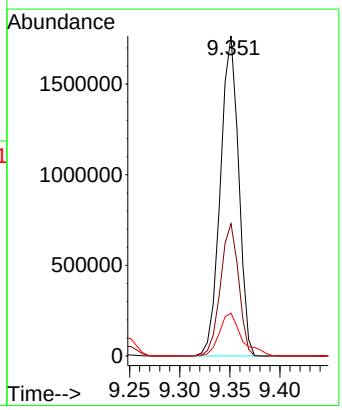


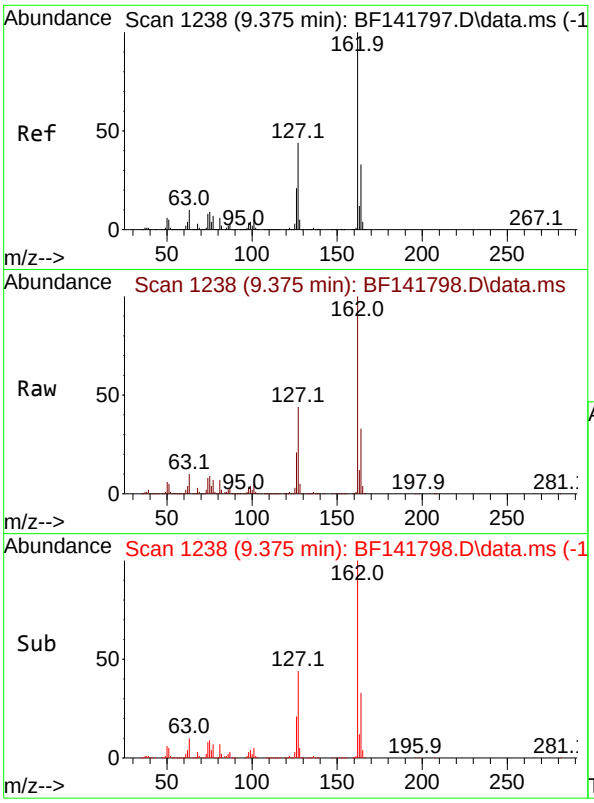


#46
1,1'-Biphenyl
Concen: 46.420 ng
RT: 9.351 min Scan# 1234
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:154 Resp: 2234592

Ion	Ratio	Lower	Upper
154	100		
153	41.4	21.4	61.4
76	13.4	0.0	33.4



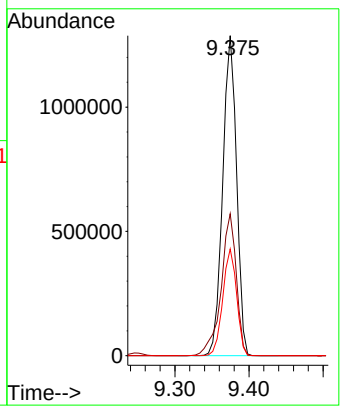


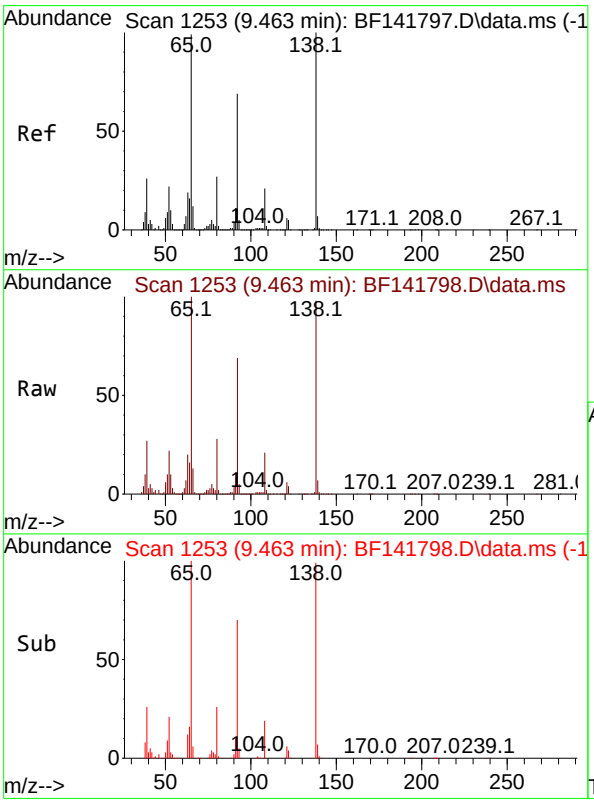
#47
2-Chloronaphthalene
Concen: 47.075 ng
RT: 9.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 1672555

Ion	Ratio	Lower	Upper
162	100		
127	44.4	35.0	52.6
164	33.4	26.6	40.0

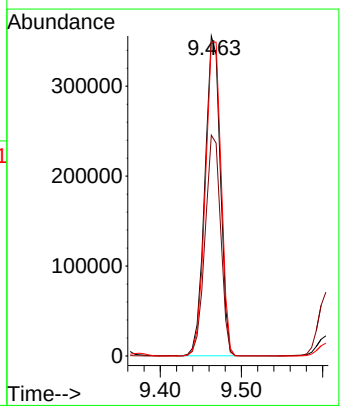


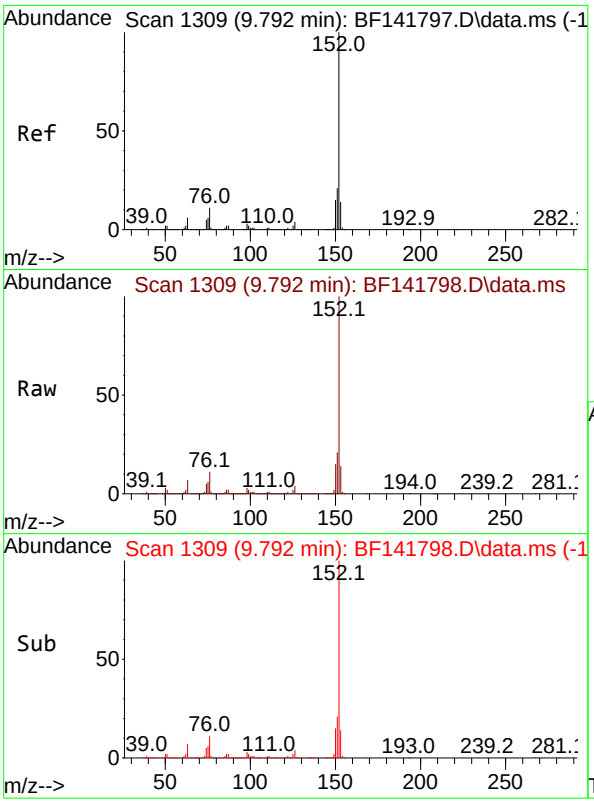


#48
2-Nitroaniline
Concen: 48.211 ng
RT: 9.463 min Scan# 1253
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 65 Resp: 469075

Ion	Ratio	Lower	Upper
65	100		
92	69.0	55.7	83.5
138	98.1	80.6	121.0



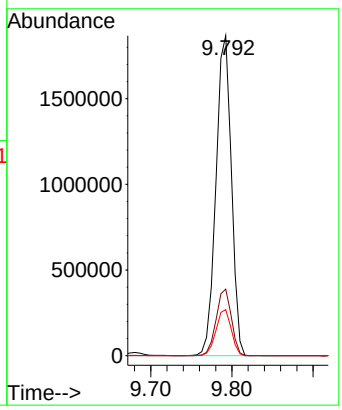


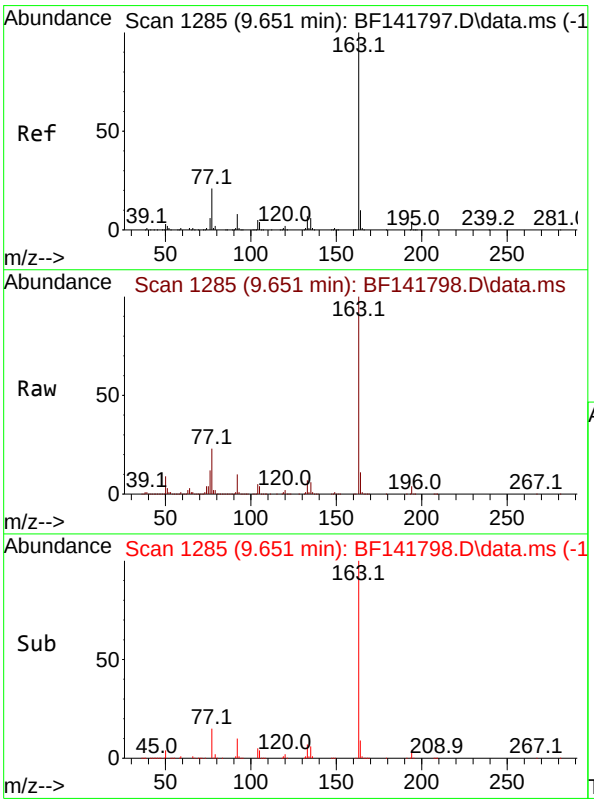
#49
Acenaphthylene
Concen: 46.294 ng
RT: 9.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 2466104

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	24.8
153	14.4	11.2	16.8

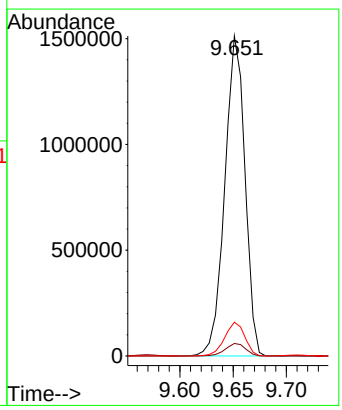


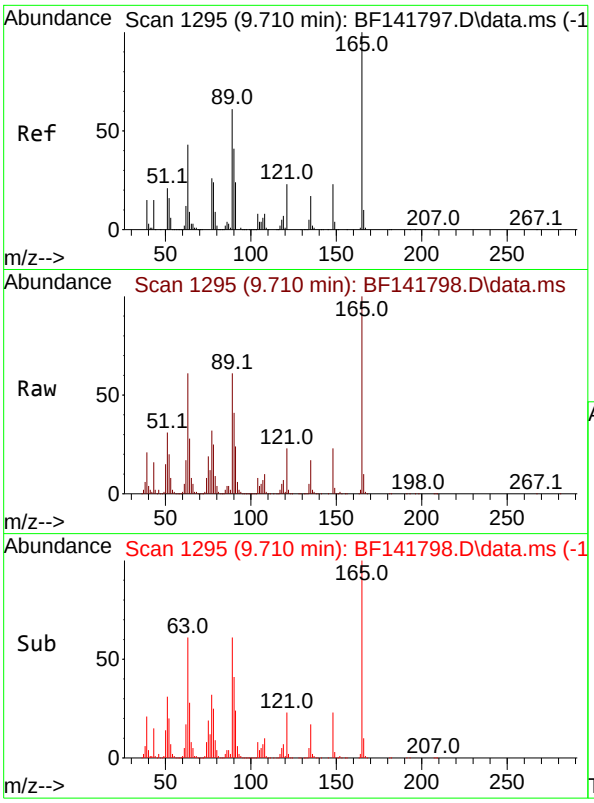


#50
Dimethylphthalate
Concen: 47.103 ng
RT: 9.651 min Scan# 1285
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:163 Resp: 1994958

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.5	8.4	12.6



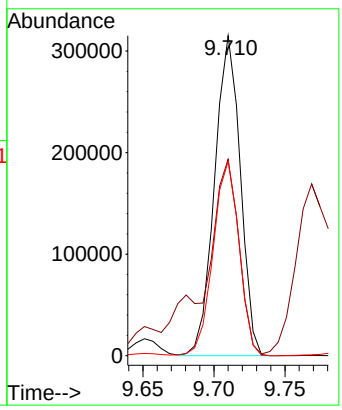


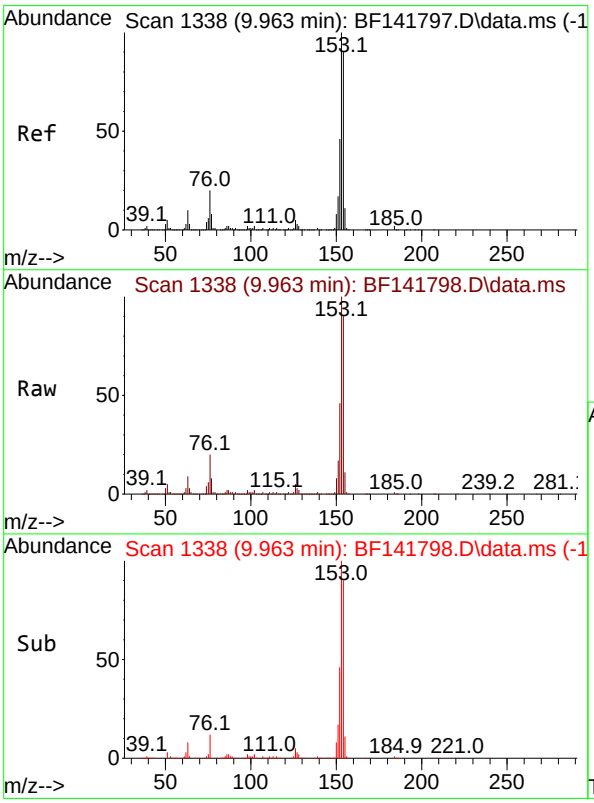
#51
2,6-Dinitrotoluene
Concen: 48.926 ng
RT: 9.710 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 396873

Ion	Ratio	Lower	Upper
165	100		
63	61.4	49.5	74.3
89	60.8	49.0	73.4

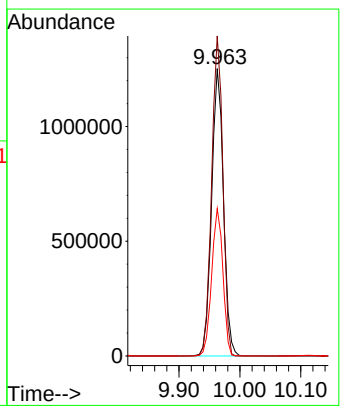


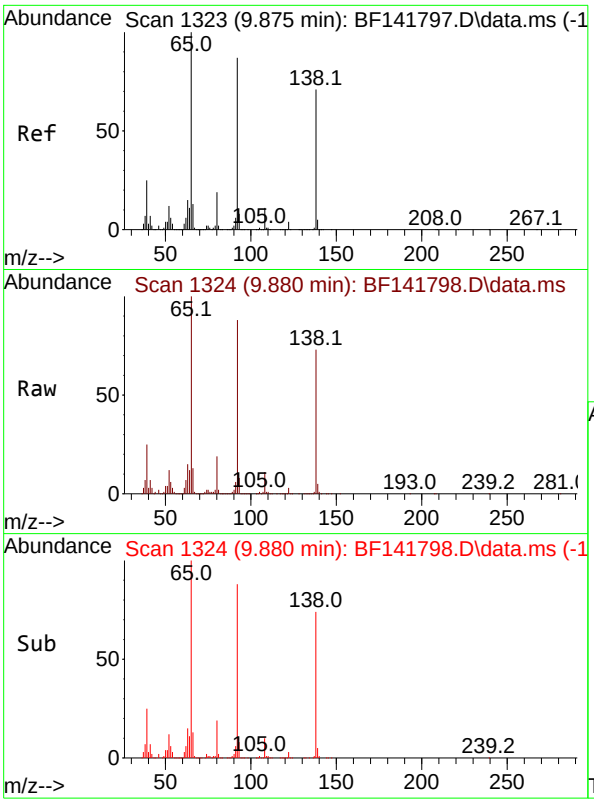


#52
Acenaphthene
Concen: 46.994 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:154 Resp: 1689163

Ion	Ratio	Lower	Upper
154	100		
153	111.4	88.7	133.1
152	51.3	40.9	61.3



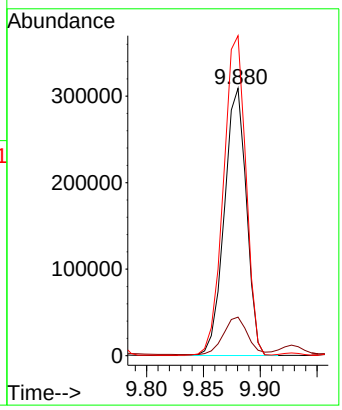


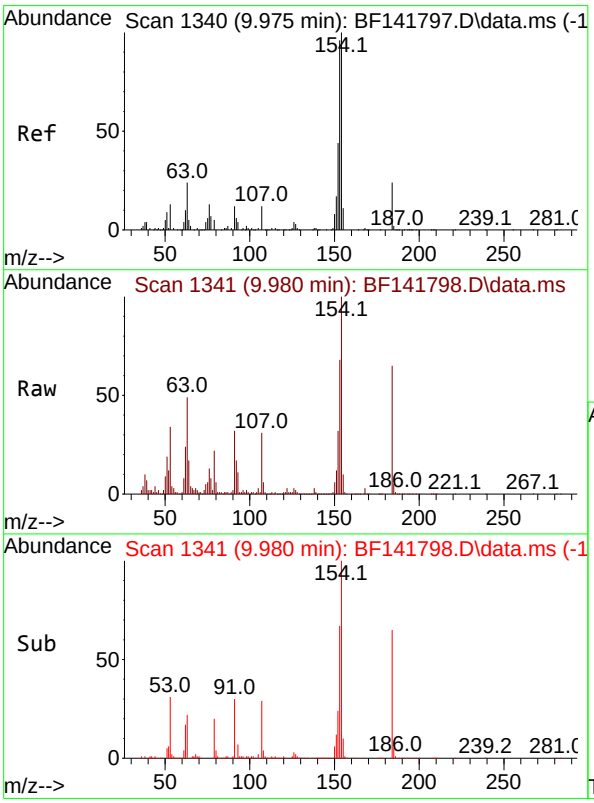
#53
3-Nitroaniline
Concen: 48.300 ng
RT: 9.880 min Scan# 1
Delta R.T. 0.005 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:138 Resp: 417015

Ion	Ratio	Lower	Upper
138	100		
108	14.5	12.7	19.1
92	119.7	97.9	146.9

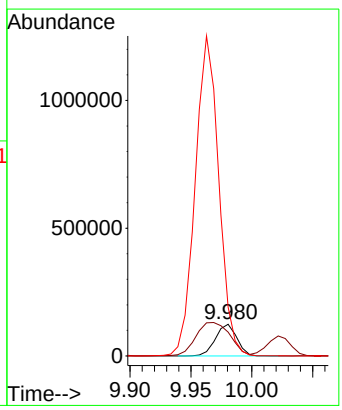


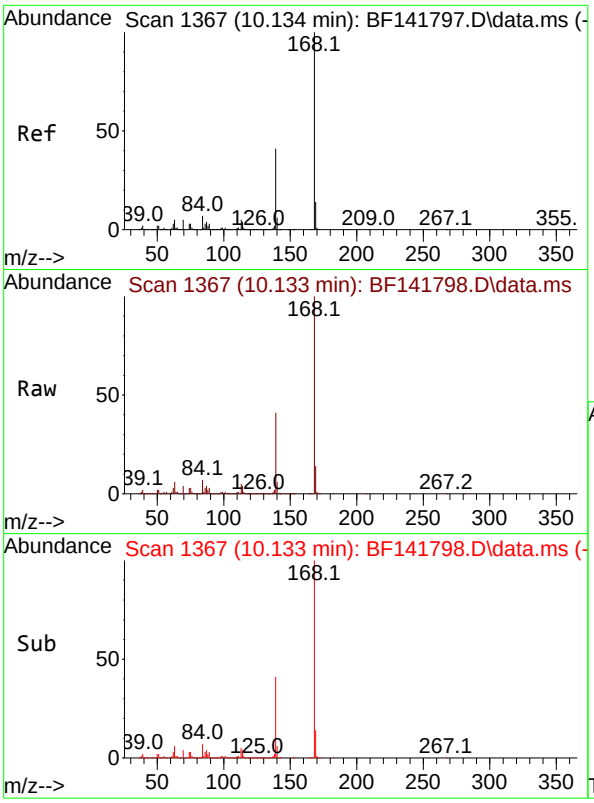


#54
2,4-Dinitrophenol
Concen: 48.388 ng
RT: 9.980 min Scan# 1341
Delta R.T. 0.005 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:184 Resp: 151706

Ion	Ratio	Lower	Upper
184	100		
63	75.3	79.0	118.6#
154	154.1	335.8	503.8#



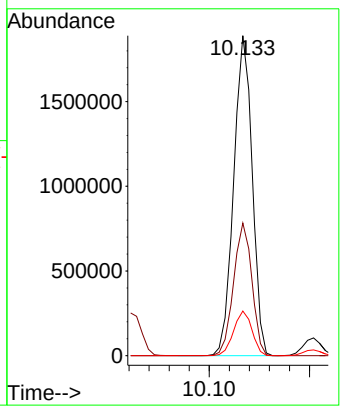


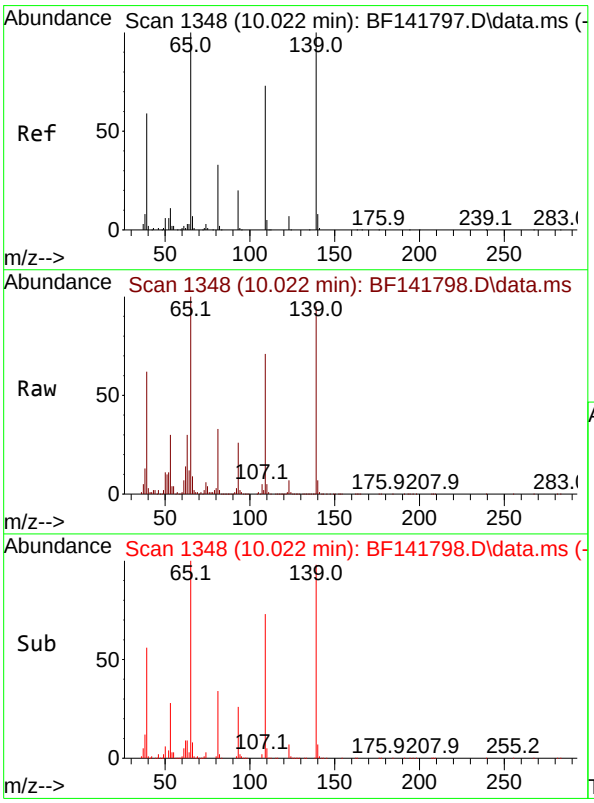
#55
Dibenzofuran
Concen: 46.312 ng
RT: 10.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:168 Resp: 2422882

Ion	Ratio	Lower	Upper
168	100		
139	41.4	32.9	49.3
169	14.0	11.1	16.7

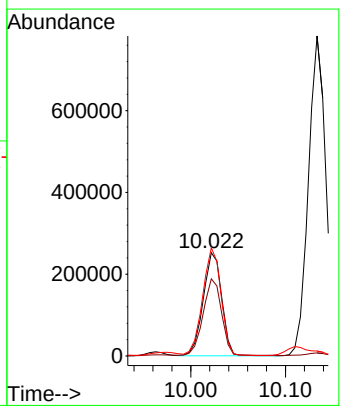


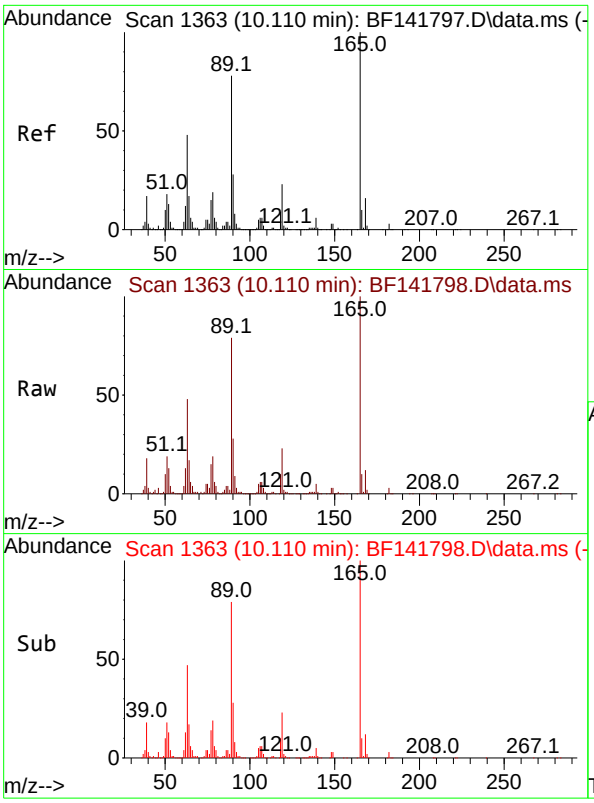


#56
4-Nitrophenol
Concen: 54.357 ng
RT: 10.022 min Scan# 1348
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:139 Resp: 340020

Ion	Ratio	Lower	Upper
139	100		
109	74.7	53.4	93.4
65	104.9	82.1	122.1



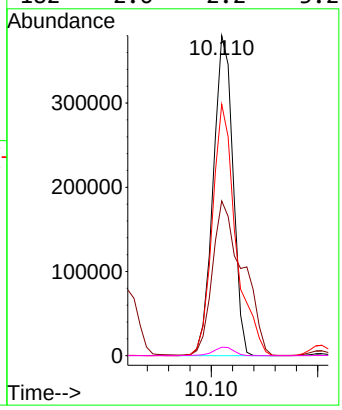


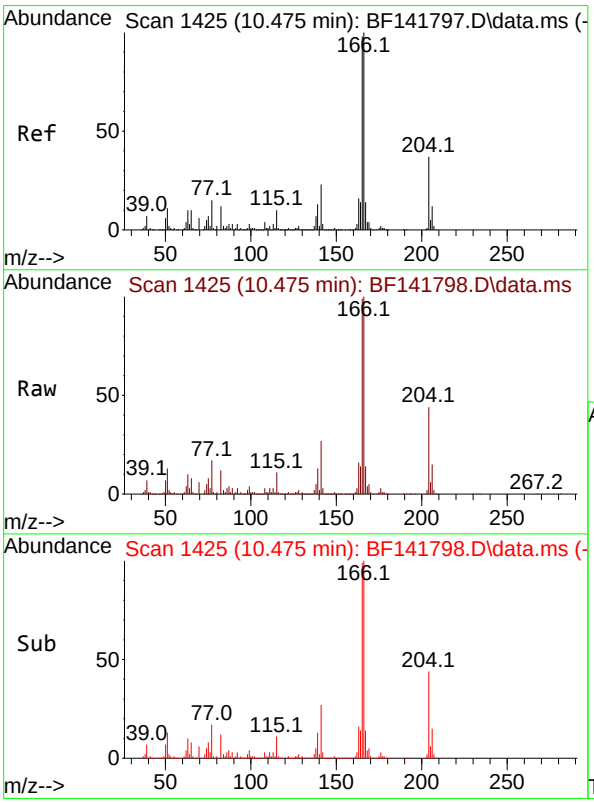
#57
2,4-Dinitrotoluene
Concen: 49.405 ng
RT: 10.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 490028

Ion	Ratio	Lower	Upper
165	100		
63	48.4	38.8	58.2
89	78.6	62.6	94.0
182	2.6	2.2	3.2

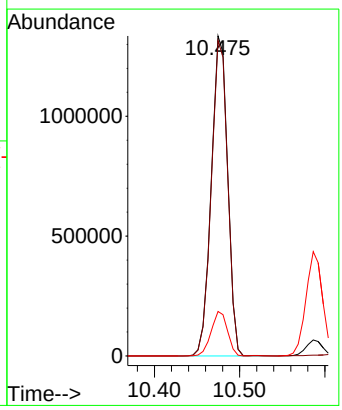


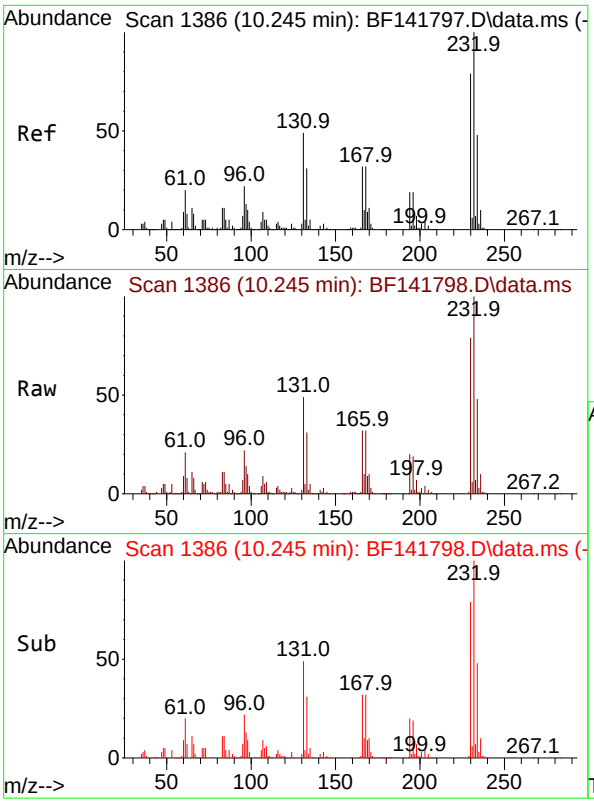


#58
Fluorene
Concen: 45.518 ng
RT: 10.475 min Scan# 1425
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:166 Resp: 1783757

Ion	Ratio	Lower	Upper
166	100		
165	98.5	78.6	117.8
167	13.9	11.0	16.4



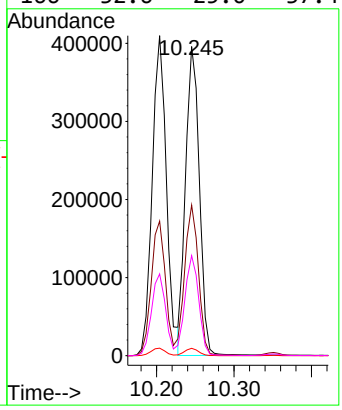


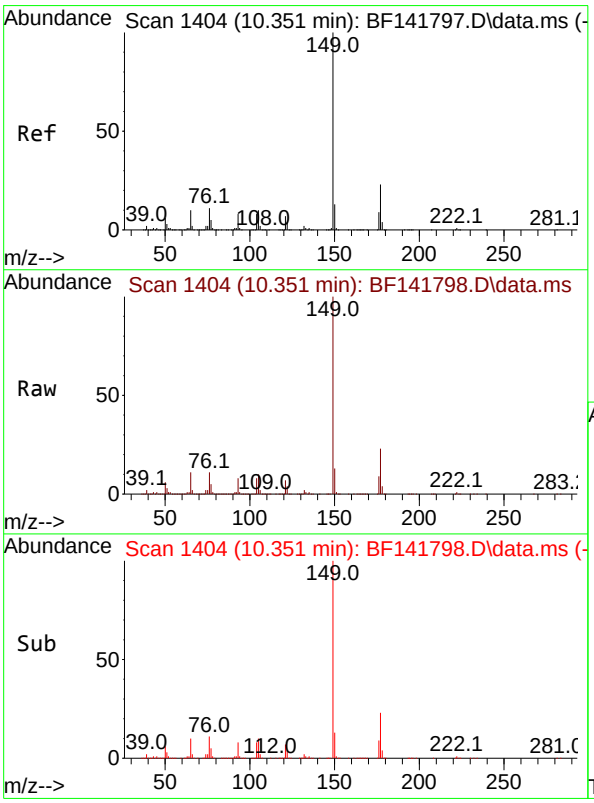
#59
2,3,4,6-Tetrachlorophenol
Concen: 48.140 ng
RT: 10.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:232 Resp: 489160

Ion	Ratio	Lower	Upper
232	100		
131	49.4	37.8	56.8
130	2.4	2.0	3.0
166	32.6	25.0	37.4

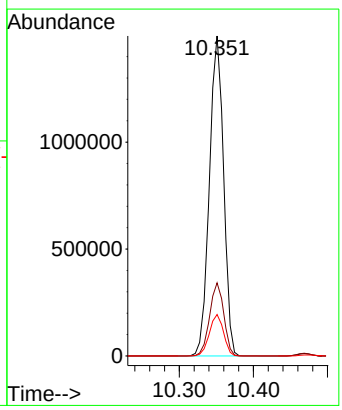


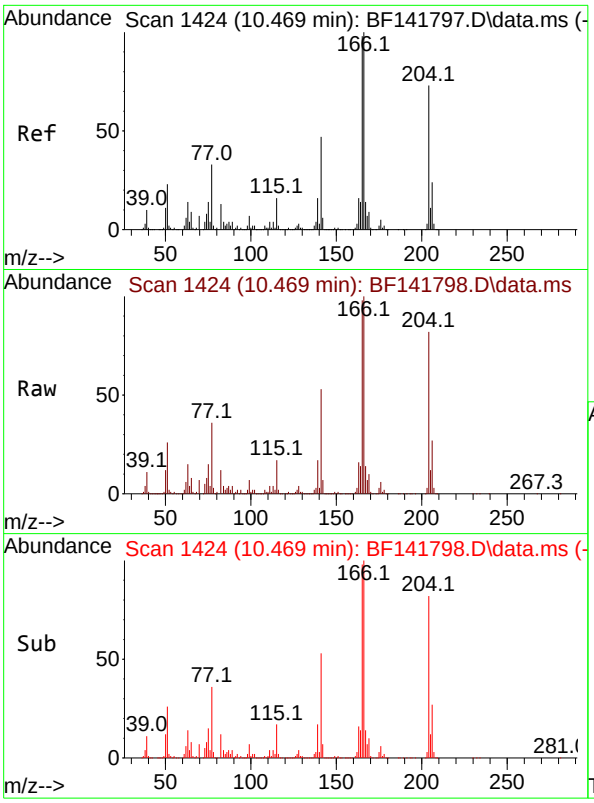


#60
Diethylphthalate
Concen: 46.896 ng
RT: 10.351 min Scan# 1404
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:149 Resp: 1991111

Ion	Ratio	Lower	Upper
149	100		
177	22.9	18.3	27.5
150	12.9	10.3	15.5



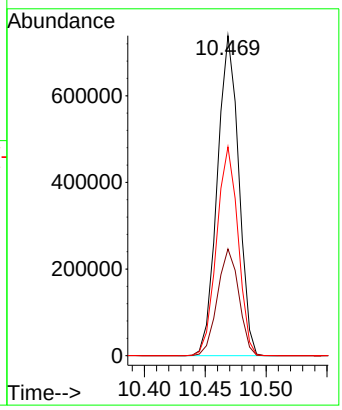


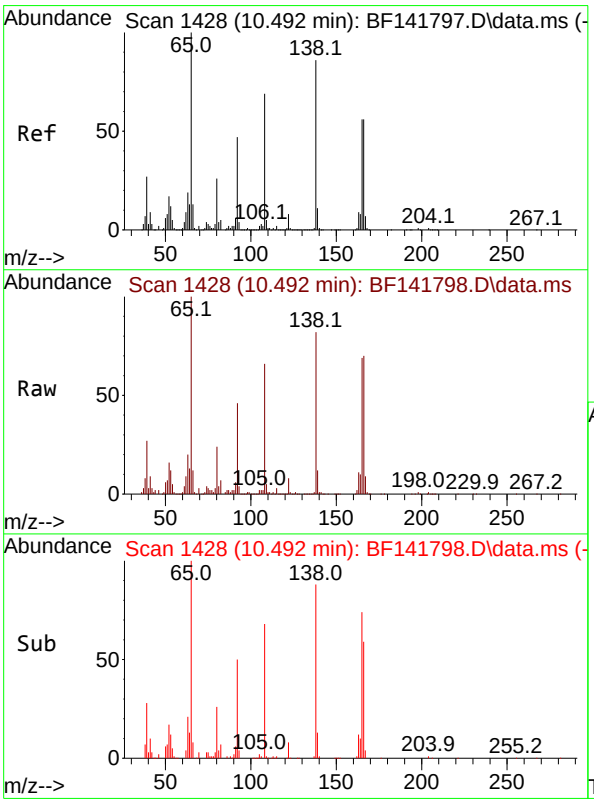
#61
4-Chlorophenyl-phenylether
Concen: 46.084 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:204 Resp: 904835

Ion	Ratio	Lower	Upper
204	100		
206	33.4	26.2	39.4
141	65.3	51.7	77.5

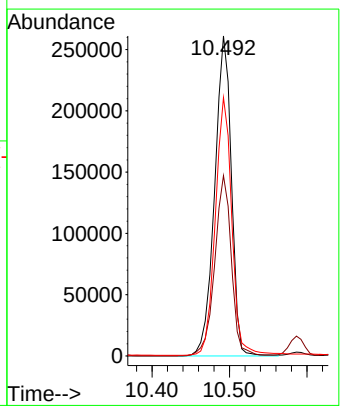


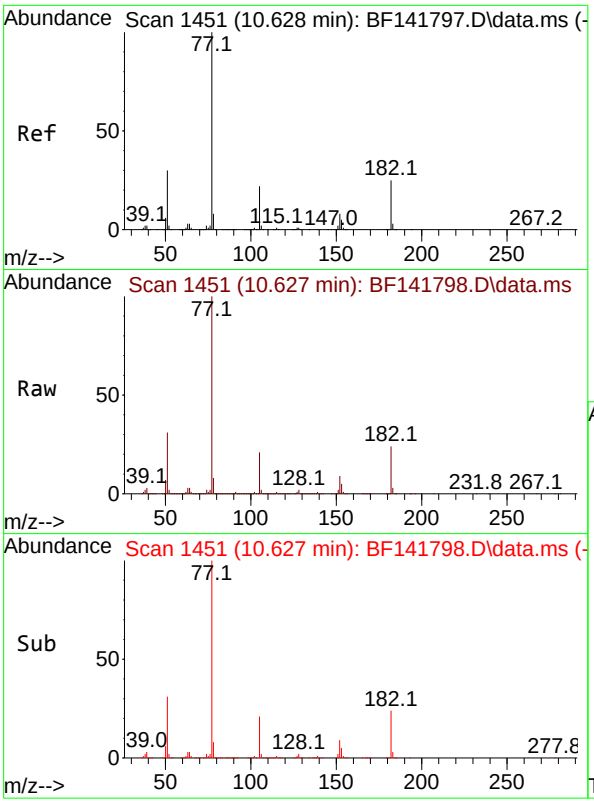


#62
4-Nitroaniline
Concen: 54.114 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:138 Resp: 391399

Ion	Ratio	Lower	Upper
138	100		
92	56.4	34.9	74.9
108	80.7	59.6	99.6



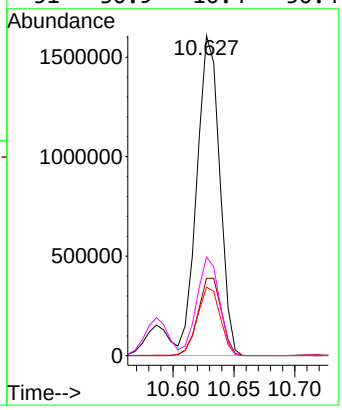


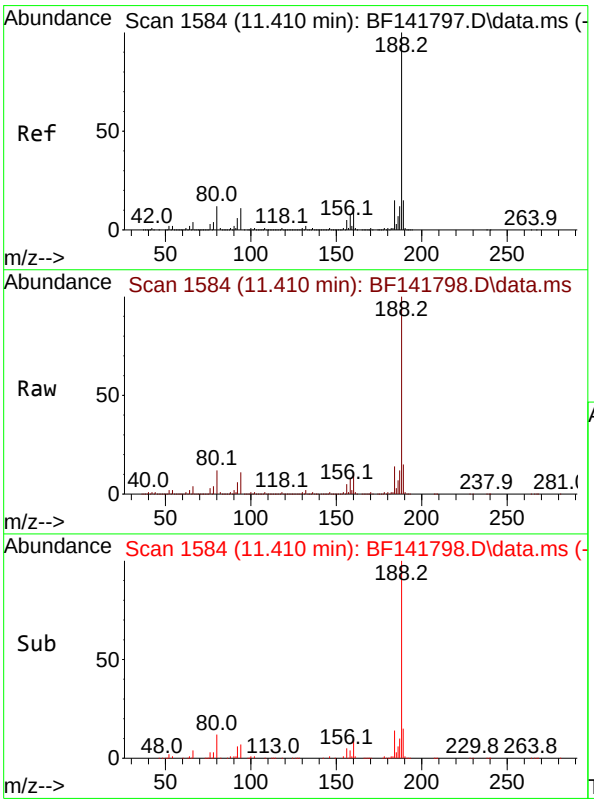
#63
Azobenzene
Concen: 46.687 ng
RT: 10.627 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 2087153

Ion	Ratio	Lower	Upper
77	100		
182	24.2	4.2	44.2
105	21.4	1.5	41.5
51	30.9	10.4	50.4

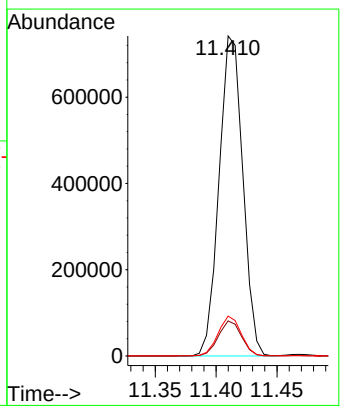


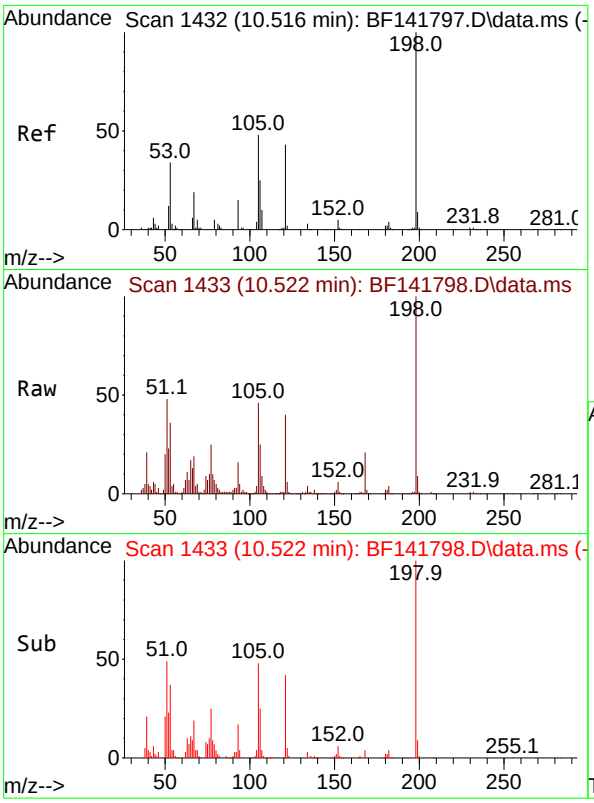


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:188 Resp: 1007266

Ion	Ratio	Lower	Upper
188	100		
94	10.9	8.9	13.3
80	12.5	9.7	14.5



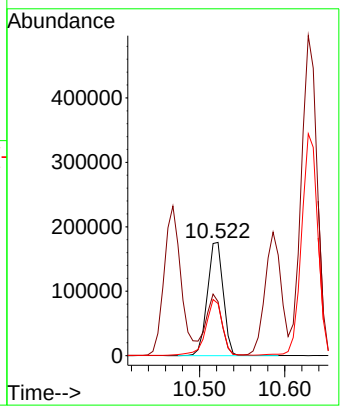


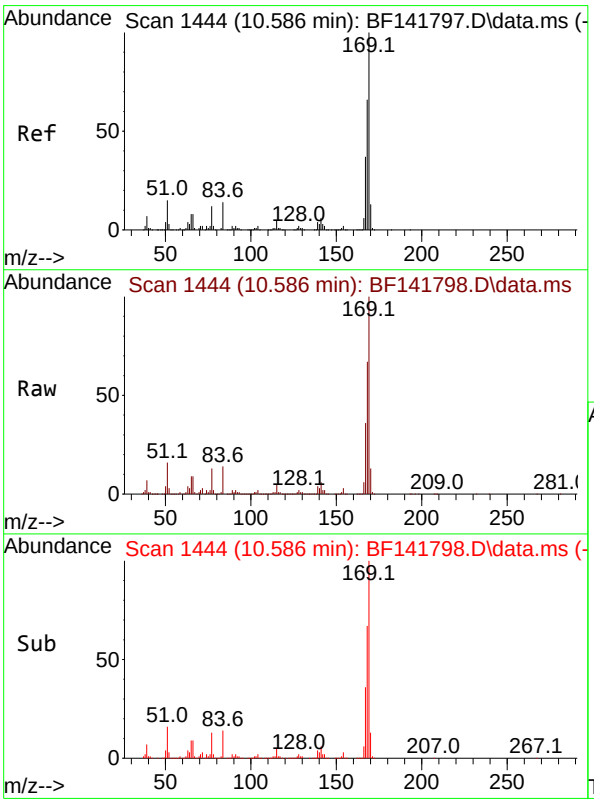
#65
4,6-Dinitro-2-methylphenol
Concen: 47.968 ng
RT: 10.522 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:198 Resp: 227493

Ion	Ratio	Lower	Upper
198	100		
51	47.7	32.1	72.1
105	46.1	28.5	68.5

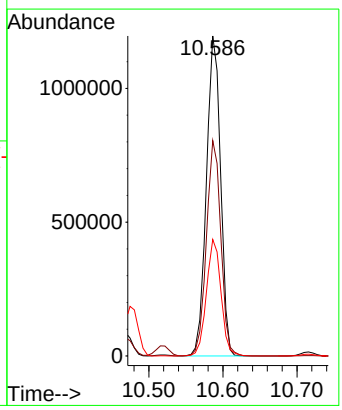


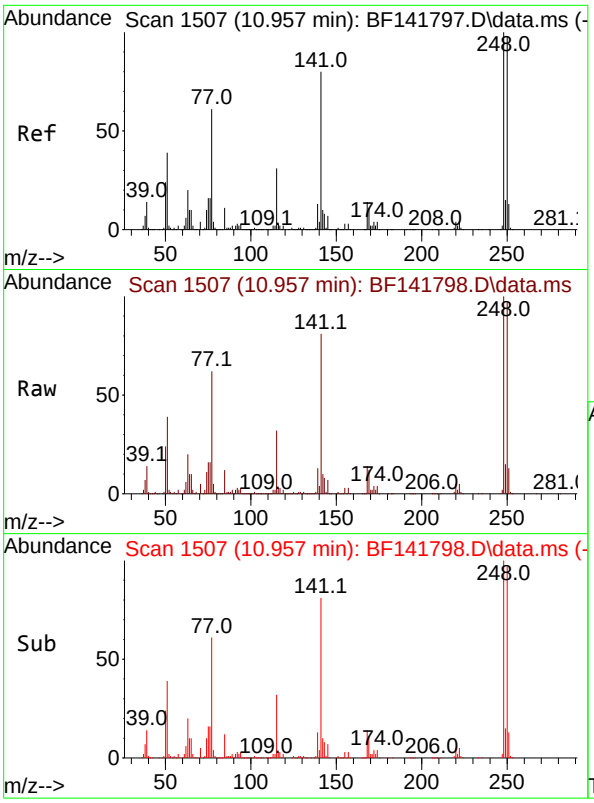


#66
n-Nitrosodiphenylamine
Concen: 48.041 ng
RT: 10.586 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:169 Resp: 1588976

Ion	Ratio	Lower	Upper
169	100		
168	67.3	53.0	79.6
167	36.4	29.3	43.9



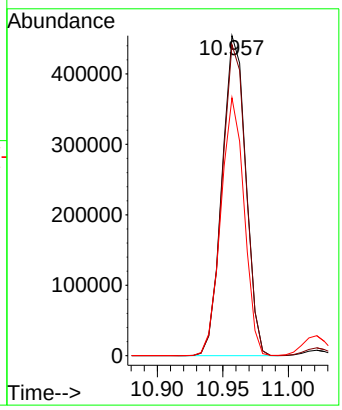


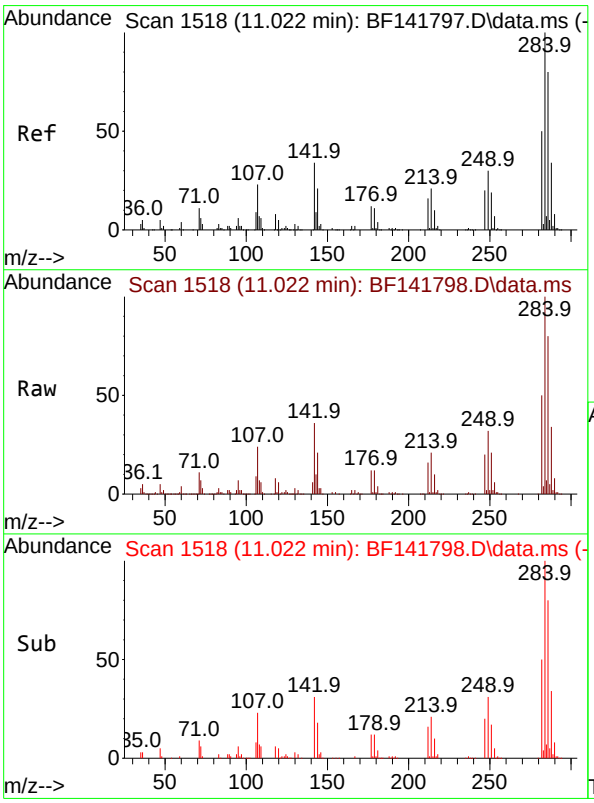
#67
4-Bromophenyl-phenylether
Concen: 48.631 ng
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:248 Resp: 572161

Ion	Ratio	Lower	Upper
248	100		
250	97.2	78.1	117.1
141	80.6	64.3	96.5

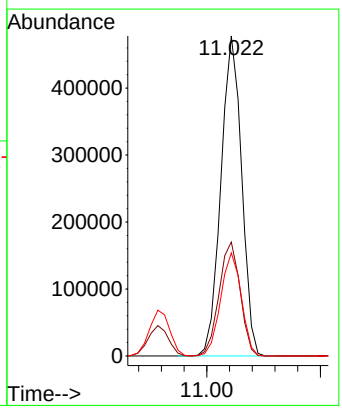


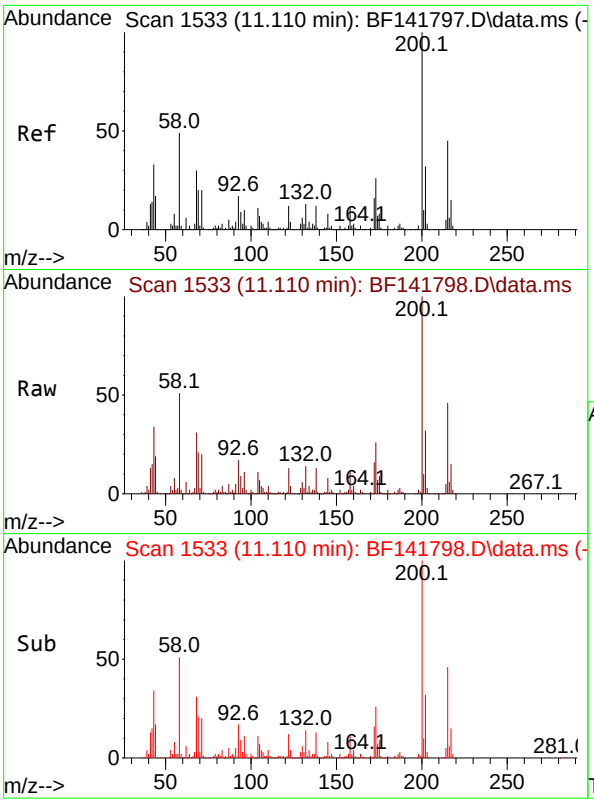


#68
Hexachlorobenzene
Concen: 48.705 ng
RT: 11.022 min Scan# 1518
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:284 Resp: 605103

Ion	Ratio	Lower	Upper
284	100		
142	35.6	28.2	42.2
249	32.2	25.5	38.3



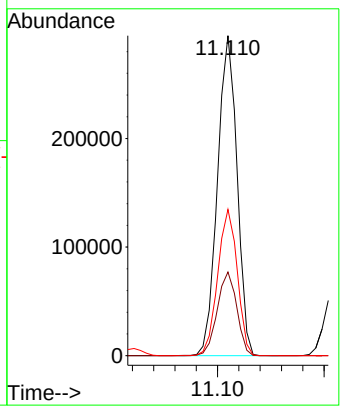


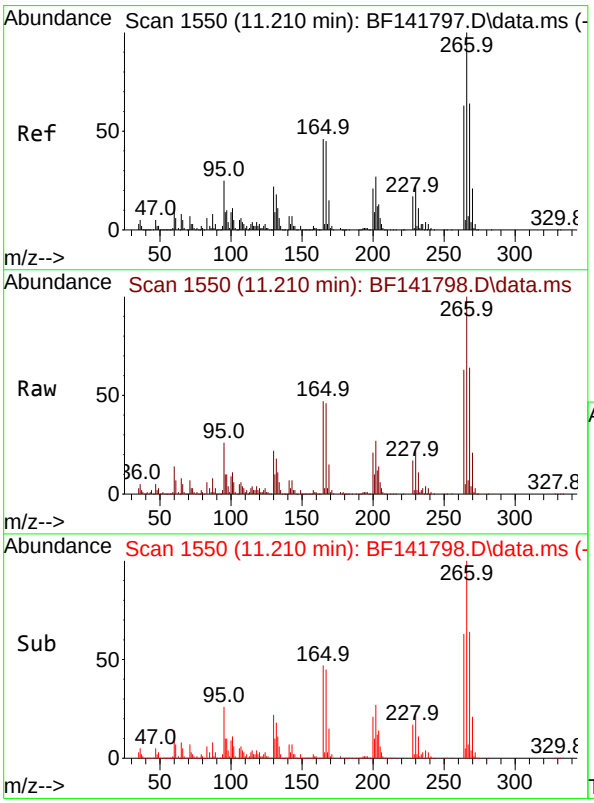
#69
Atrazine
Concen: 41.179 ng
RT: 11.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:200 Resp: 374540

Ion	Ratio	Lower	Upper
200	100		
173	26.2	5.6	45.6
215	45.7	25.3	65.3

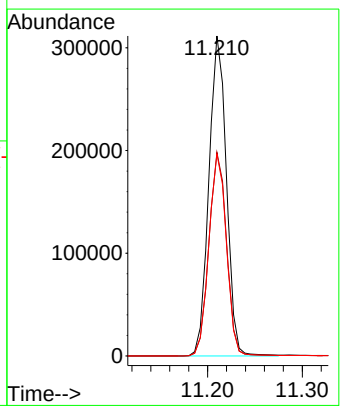


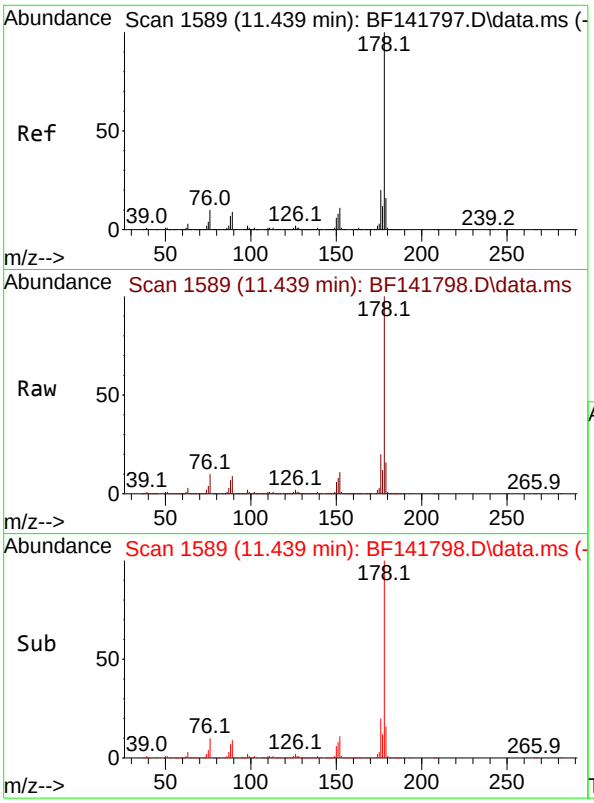


#70
Pentachlorophenol
Concen: 50.809 ng
RT: 11.210 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:266 Resp: 400352

Ion	Ratio	Lower	Upper
266	100		
268	63.6	50.9	76.3
264	63.2	50.2	75.4



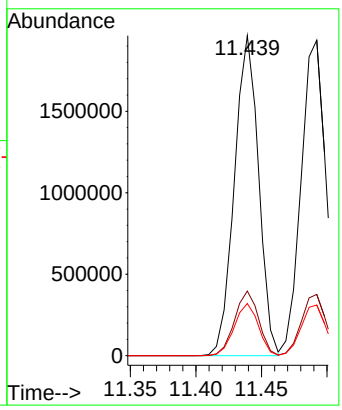


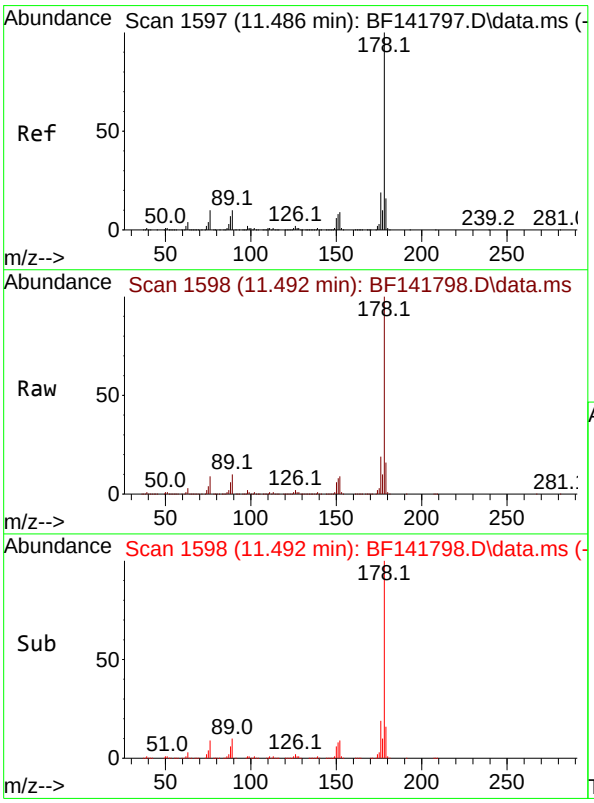
#71
Phenanthrene
Concen: 46.806 ng
RT: 11.439 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:178 Resp: 2521849

Ion	Ratio	Lower	Upper
178	100		
176	20.2	16.0	24.0
179	16.3	12.6	19.0

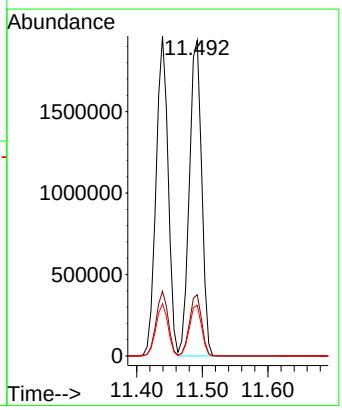


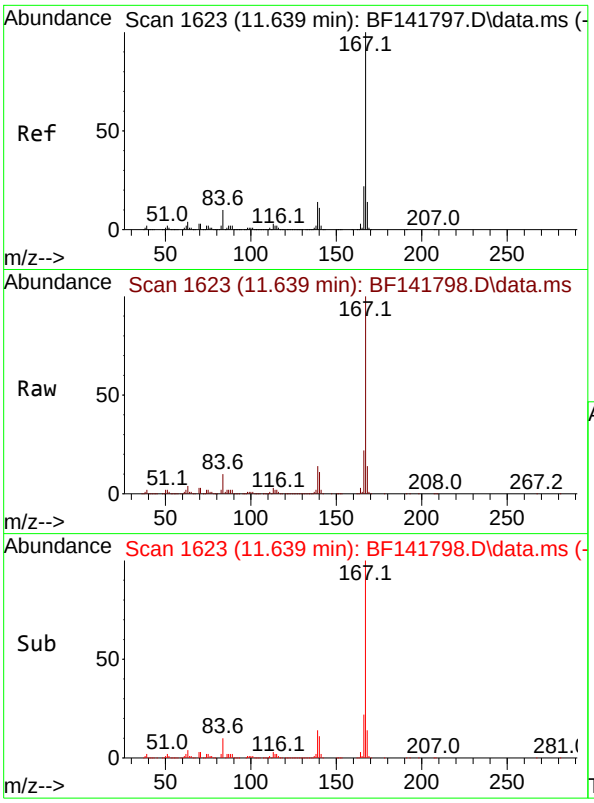


#72
Anthracene
Concen: 46.707 ng
RT: 11.492 min Scan# 1598
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:178 Resp: 2522132

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.0
179	16.1	12.8	19.2



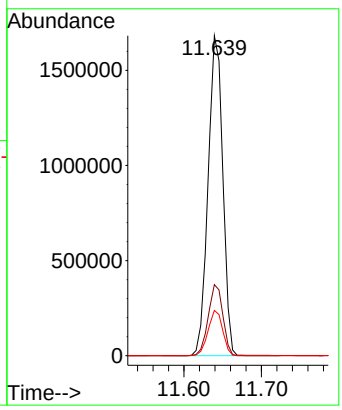


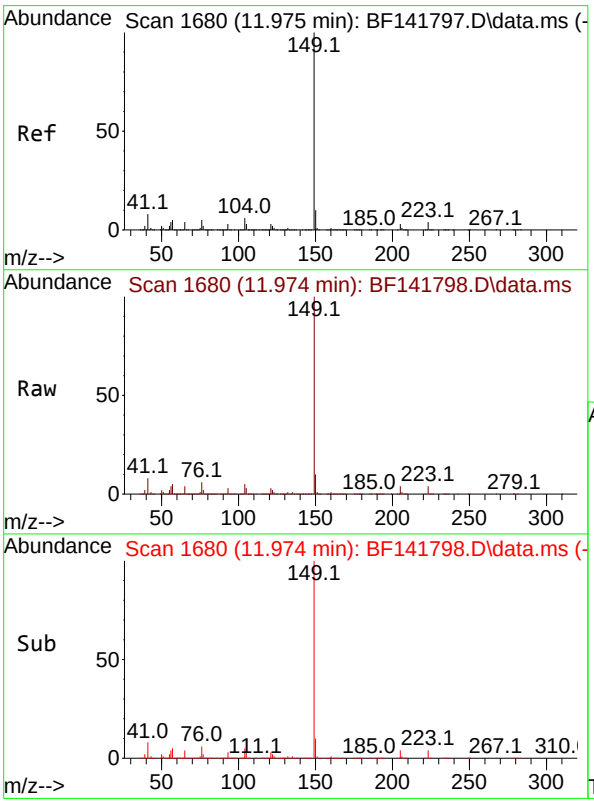
#73
Carbazole
Concen: 46.572 ng
RT: 11.639 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:167 Resp: 2220778

Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.5	26.3
139	14.2	11.3	16.9

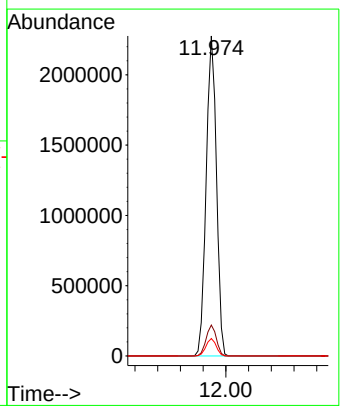


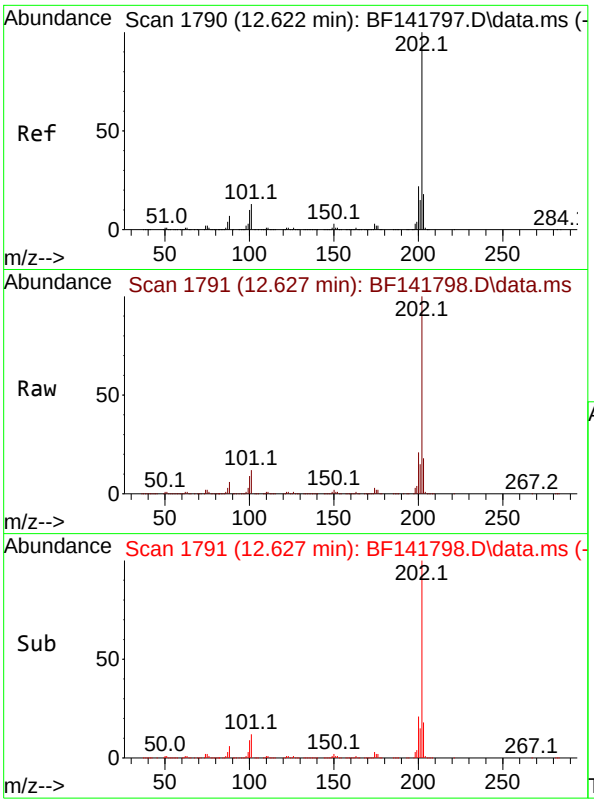


#74
Di-n-butylphthalate
Concen: 46.982 ng
RT: 11.974 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:149 Resp: 2839813

Ion	Ratio	Lower	Upper
149	100		
150	9.6	7.7	11.5
104	5.5	4.4	6.6



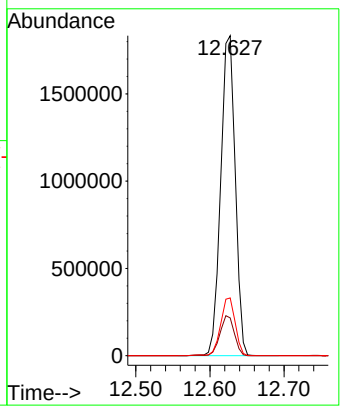


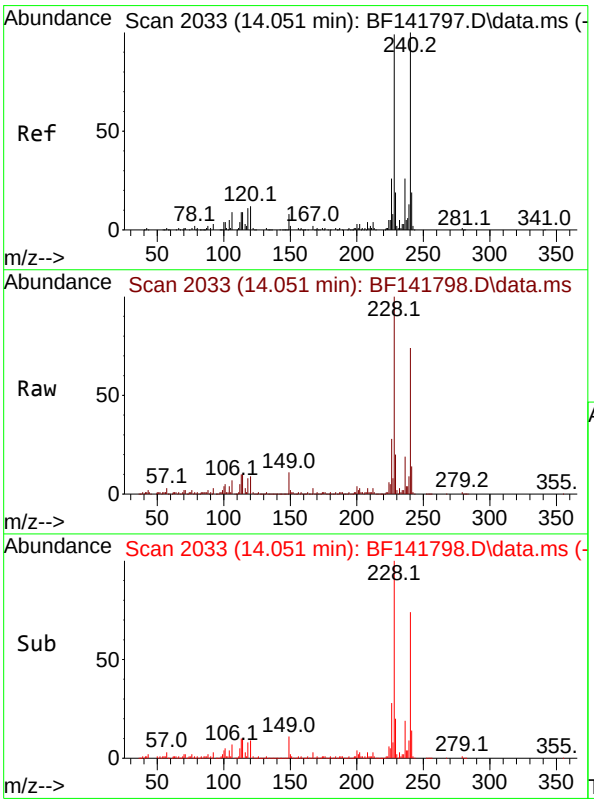
#75
Fluoranthene
Concen: 45.269 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:202 Resp: 2499217

Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	32.8
203	18.0	0.0	38.0

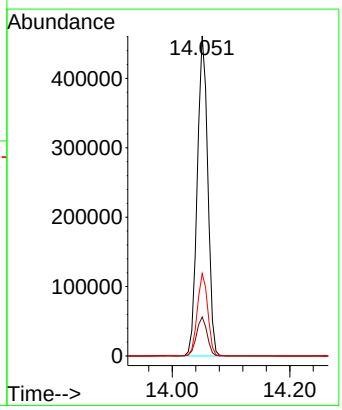


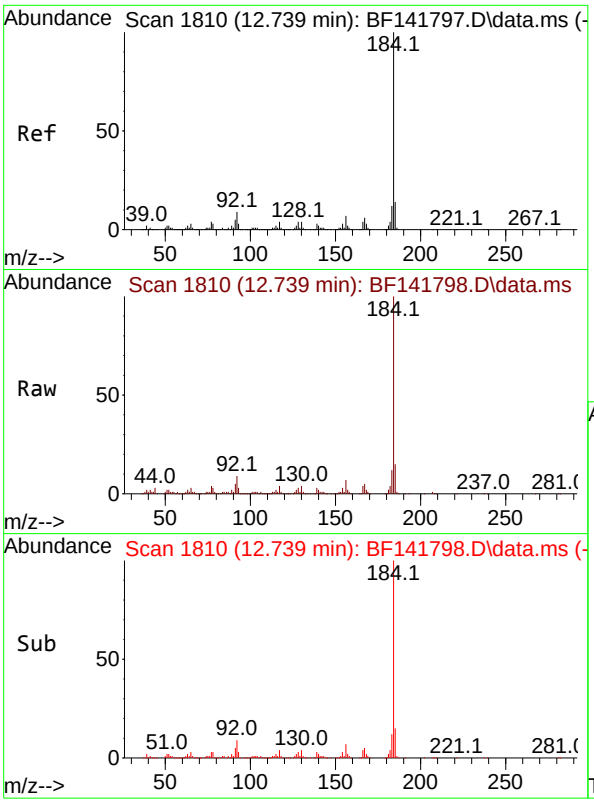


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:240 Resp: 571903

Ion	Ratio	Lower	Upper
240	100		
120	12.2	9.7	14.5
236	25.8	21.0	31.4



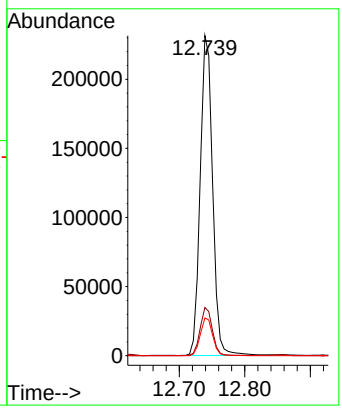


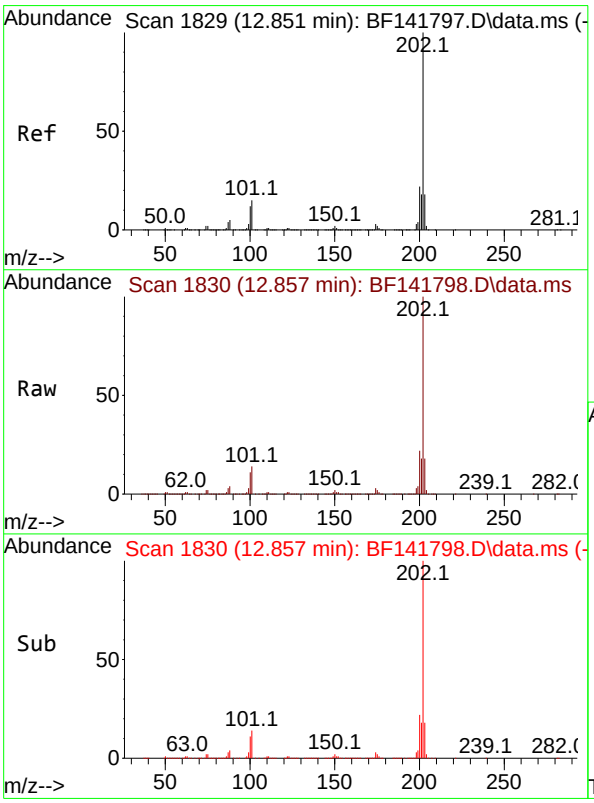
#77
Benzidine
Concen: 42.453 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:184 Resp: 305582

Ion	Ratio	Lower	Upper
184	100		
185	15.0	11.6	17.4
183	11.8	9.4	14.0

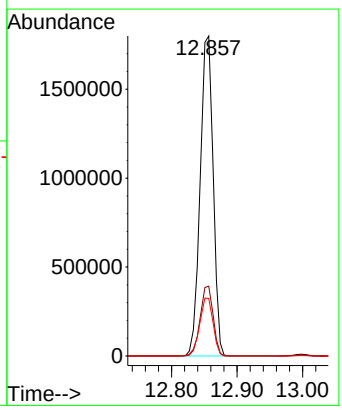


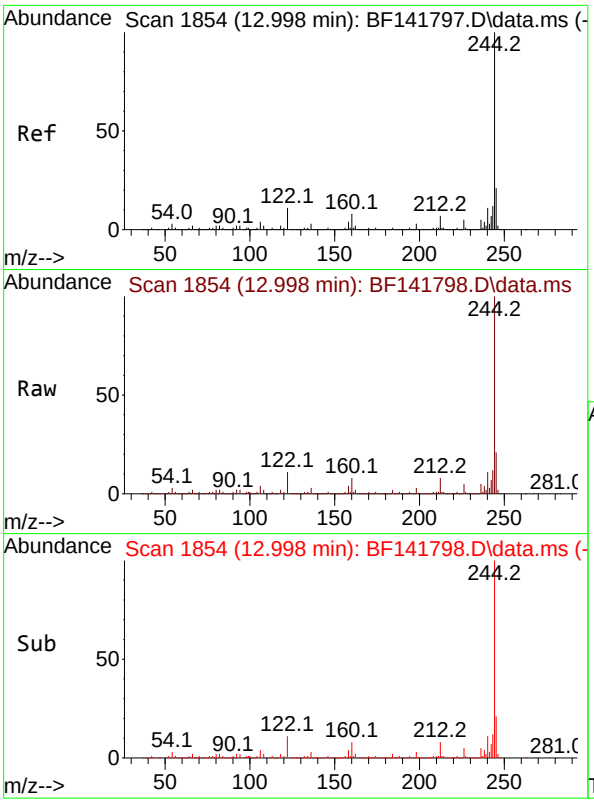


#78
Pyrene
Concen: 50.178 ng
RT: 12.857 min Scan# 1830
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:202 Resp: 2484995

Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.4	26.0
203	18.0	14.6	22.0



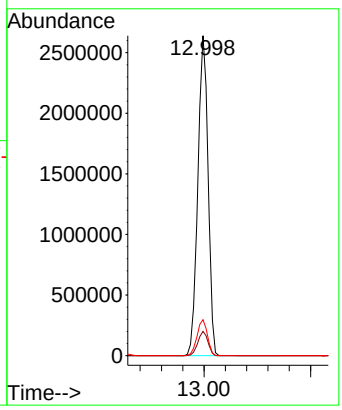


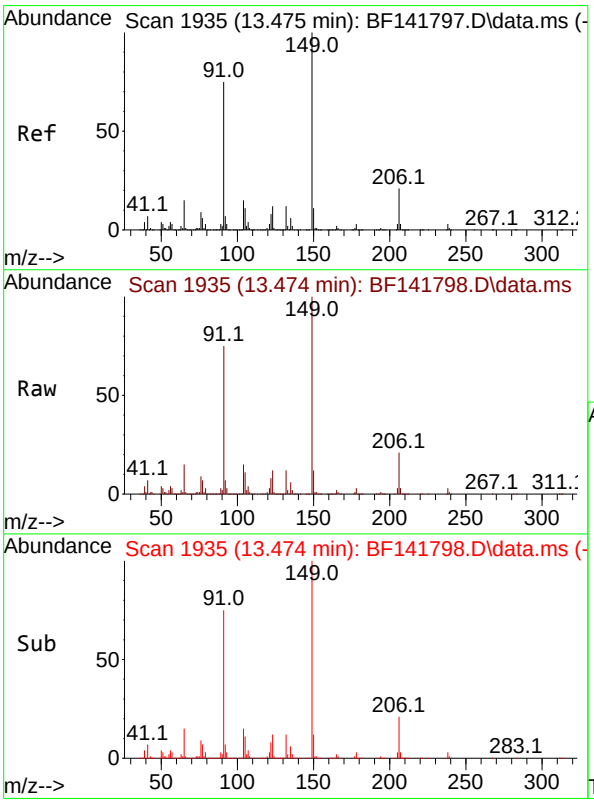
#79
Terphenyl-d14
Concen: 99.483 ng
RT: 12.998 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:244 Resp: 3516535

Ion	Ratio	Lower	Upper
244	100		
212	7.6	6.0	9.0
122	11.3	9.0	13.6

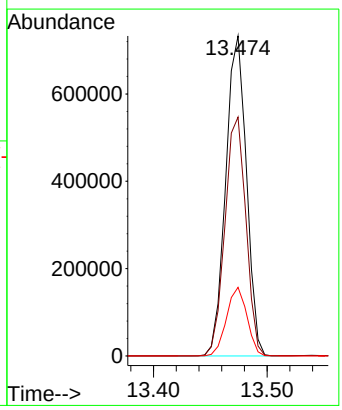


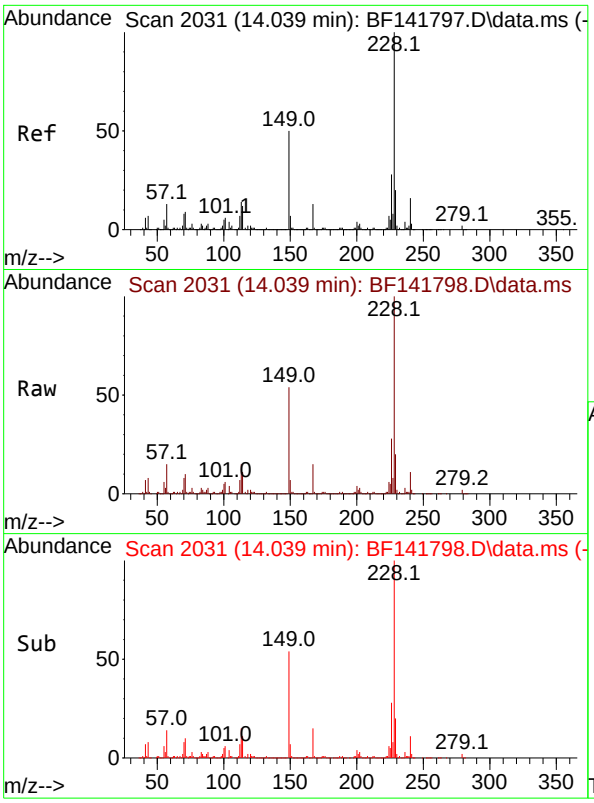


#80
Butylbenzylphthalate
Concen: 51.657 ng
RT: 13.474 min Scan# 1935
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:149 Resp: 929464

Ion	Ratio	Lower	Upper
149	100		
91	74.7	60.1	90.1
206	21.4	16.8	25.2



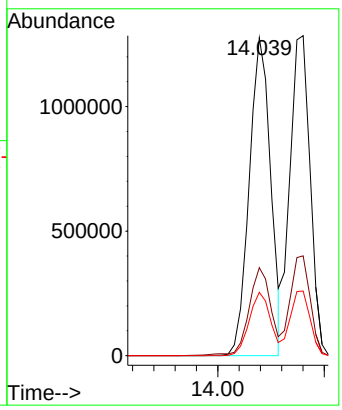


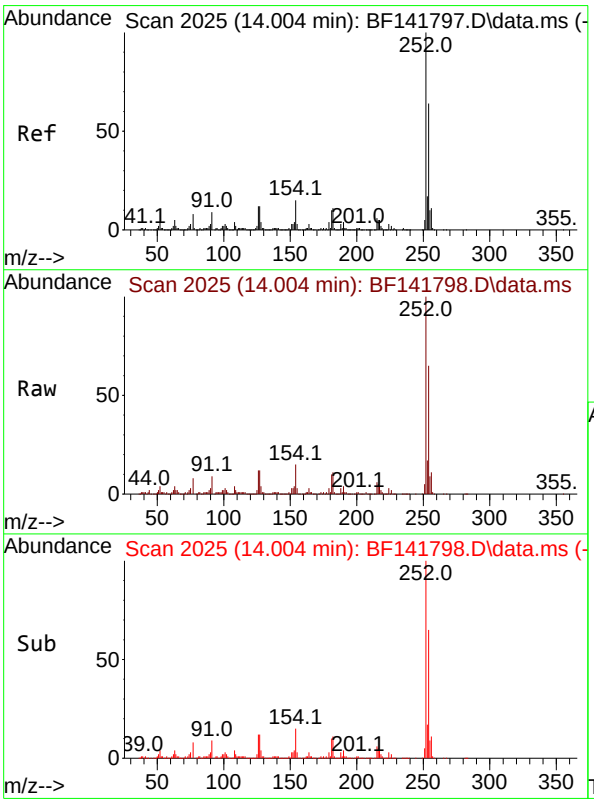
#81
Benzo(a)anthracene
Concen: 47.067 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 1777948

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.1	33.1
229	19.9	16.1	24.1

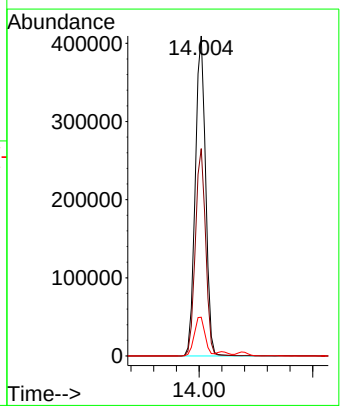


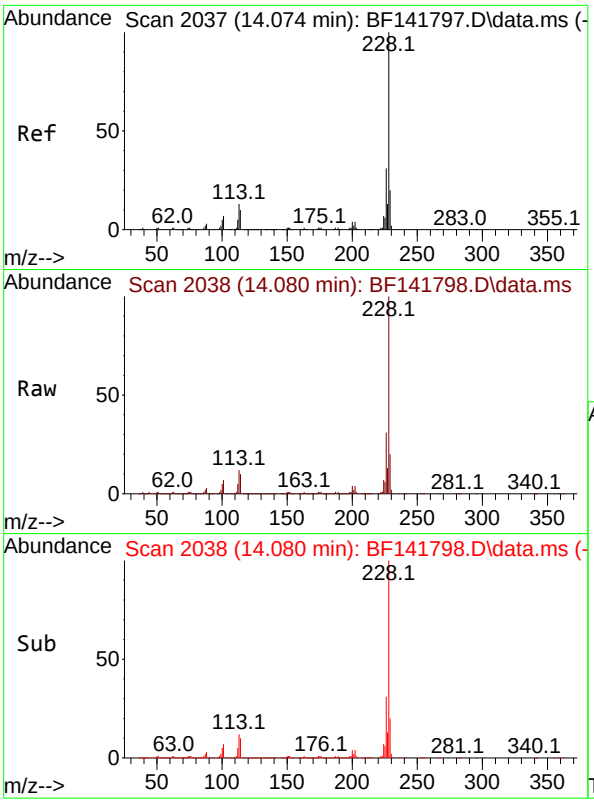


#82
3,3'-Dichlorobenzidine
Concen: 48.021 ng
RT: 14.004 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:252 Resp: 520451

Ion	Ratio	Lower	Upper
252	100		
254	64.8	51.4	77.0
126	12.1	9.8	14.6



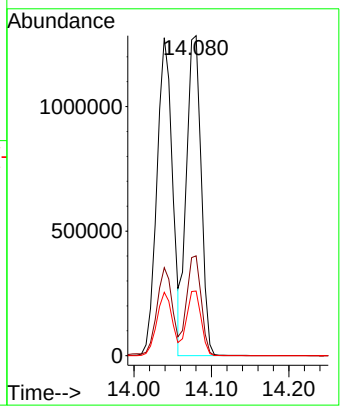


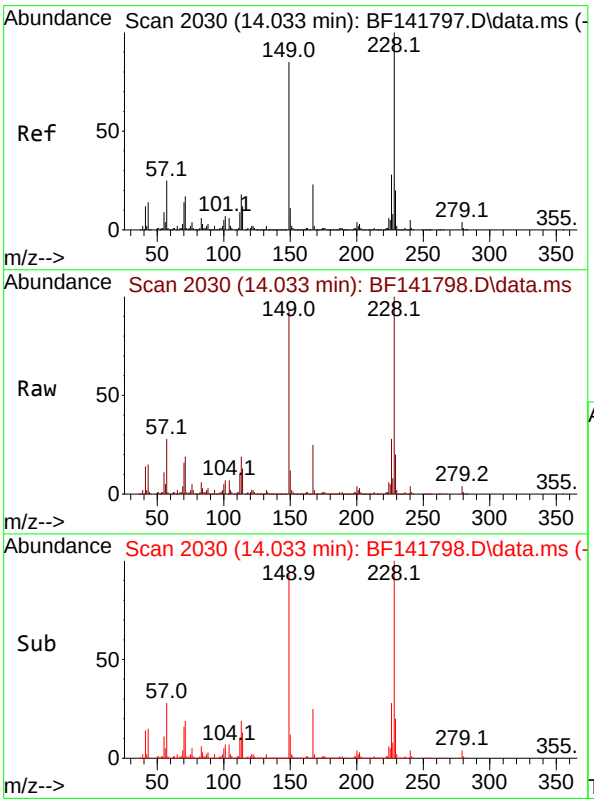
#83
Chrysene
Concen: 48.659 ng
RT: 14.080 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 1694396

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.6	37.0
229	20.2	16.1	24.1

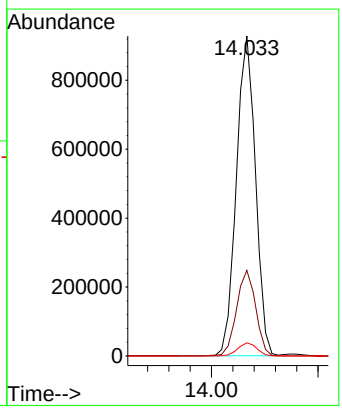


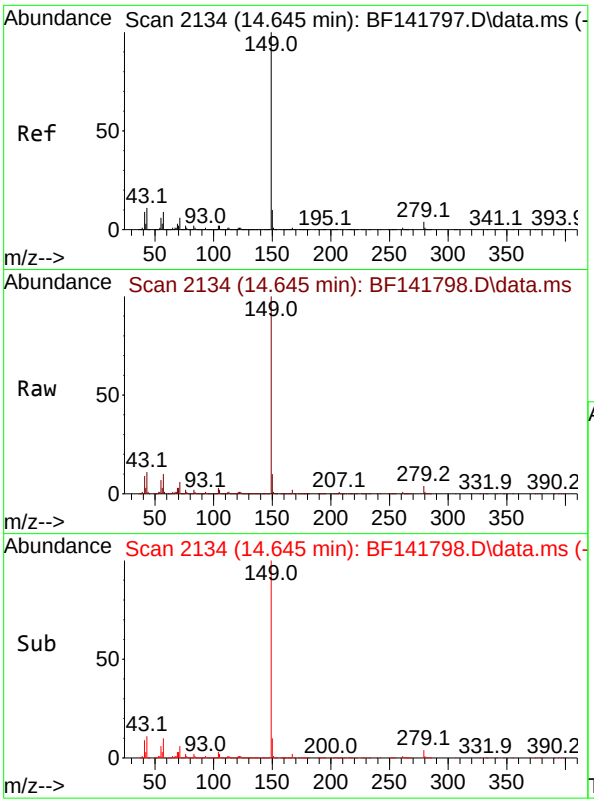


#84
Bis(2-ethylhexyl)phthalate
Concen: 51.766 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:149 Resp: 1159761

Ion	Ratio	Lower	Upper
149	100		
167	26.8	21.2	31.8
279	4.1	3.3	4.9



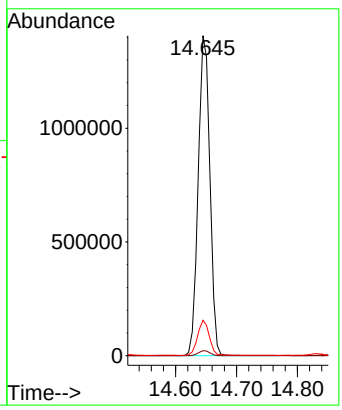


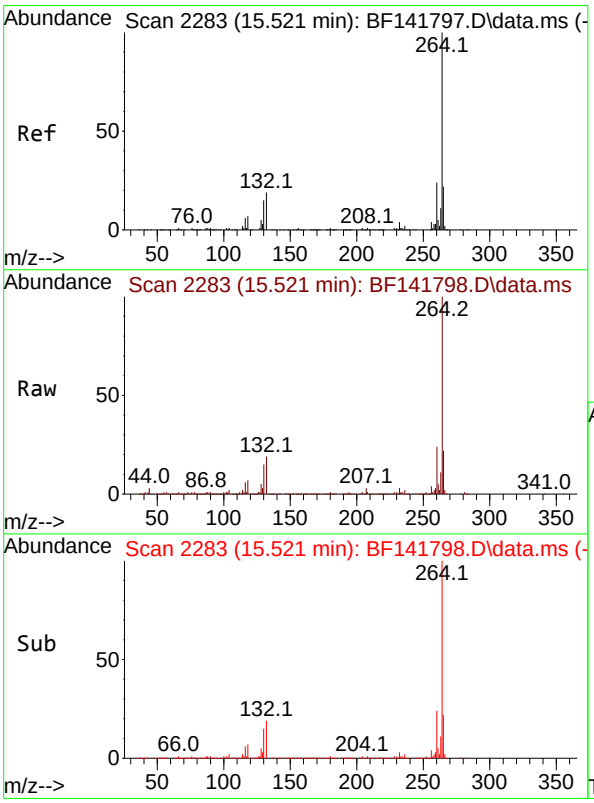
#85
Di-n-octyl phthalate
Concen: 55.606 ng
RT: 14.645 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:149 Resp: 1865081

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	10.8	8.6	12.8

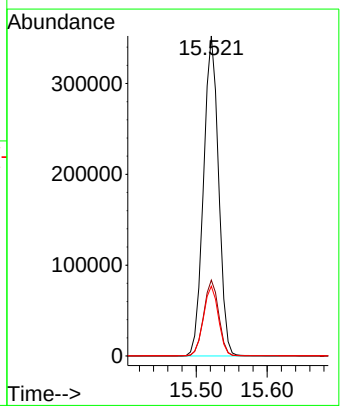


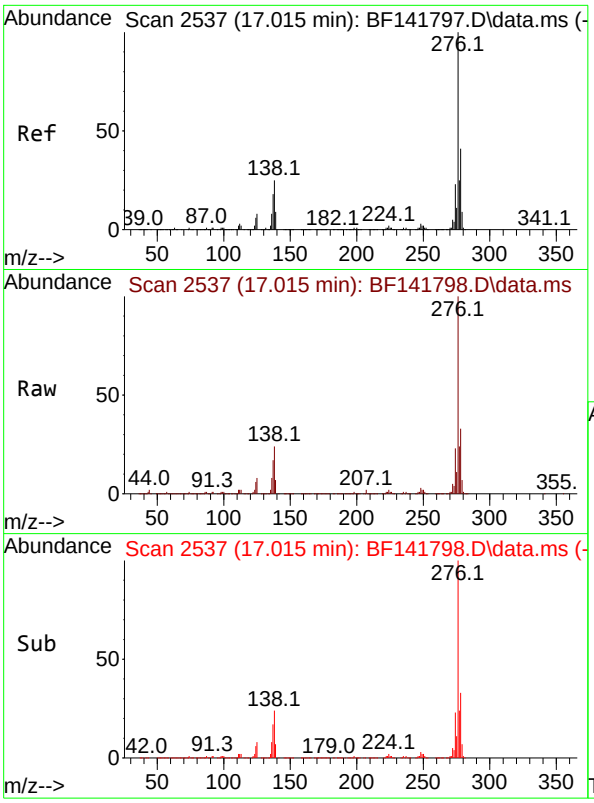


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:264 Resp: 520644

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.9	28.3
265	21.8	17.4	26.0



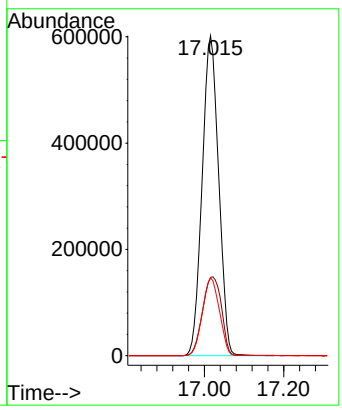


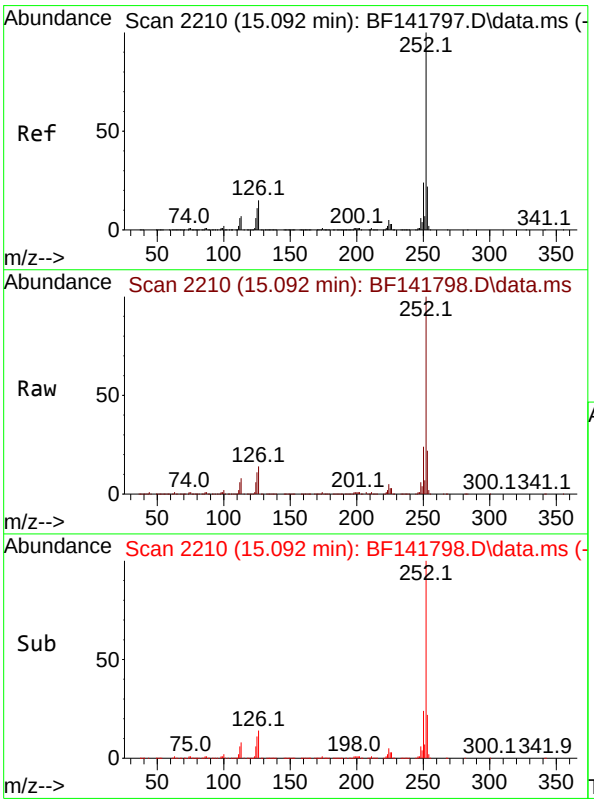
#87
Indeno(1,2,3-cd)pyrene
Concen: 52.510 ng
RT: 17.015 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:276 Resp: 1740850

Ion	Ratio	Lower	Upper
276	100		
138	28.1	22.5	33.7
277	25.1	20.3	30.5

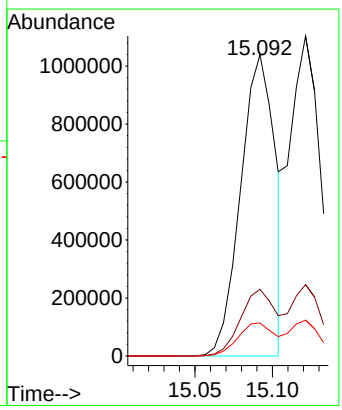


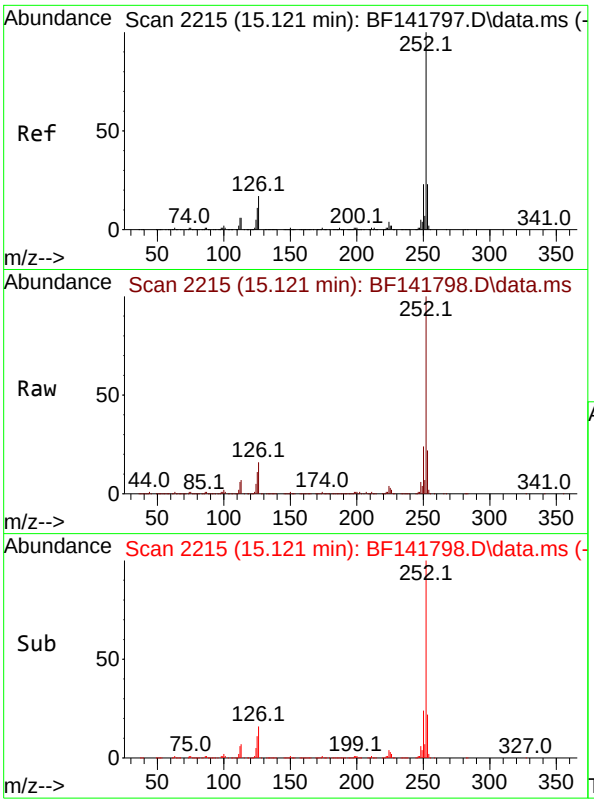


#88
Benzo(b)fluoranthene
Concen: 45.220 ng
RT: 15.092 min Scan# 2210
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:252 Resp: 1603729

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	11.0	8.6	13.0



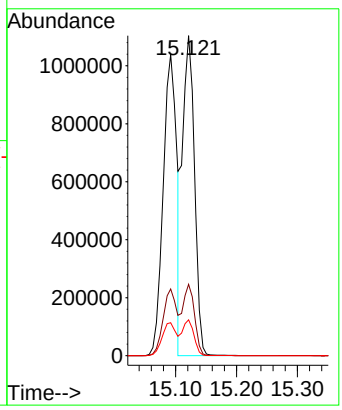


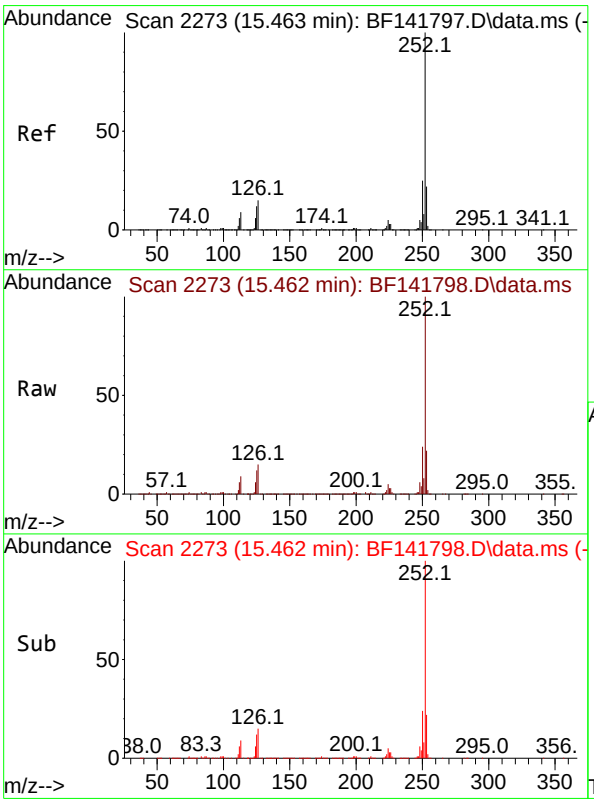
#89
Benzo(k)fluoranthene
Concen: 50.326 ng
RT: 15.121 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:252 Resp: 1516995

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	11.2	8.8	13.2

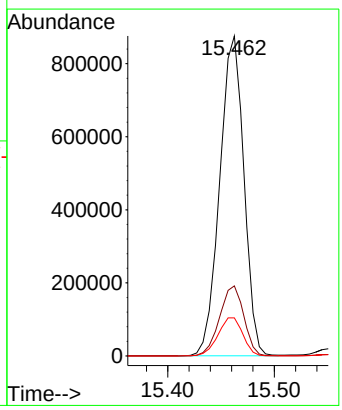


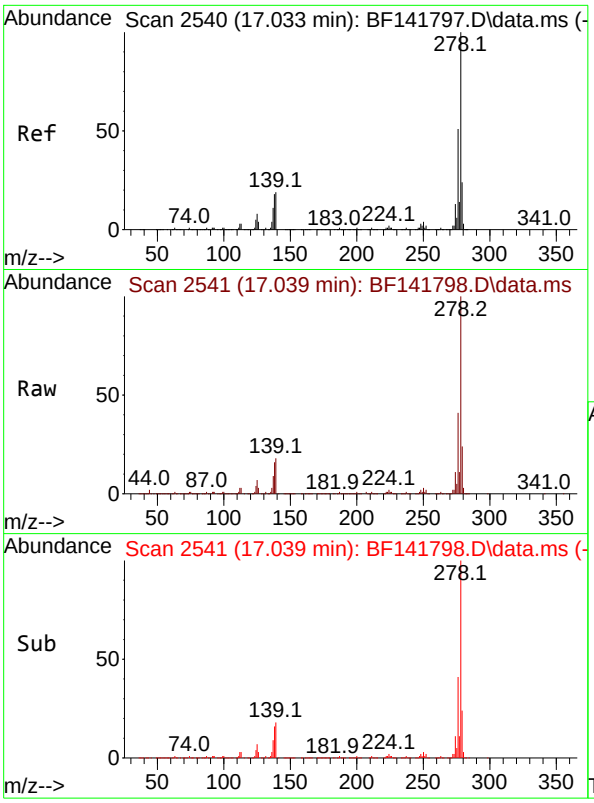


#90
Benzo(a)pyrene
Concen: 48.495 ng
RT: 15.462 min Scan# 2273
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:252 Resp: 1379319

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	11.9	9.4	14.2



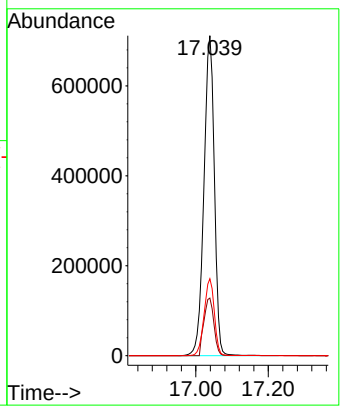


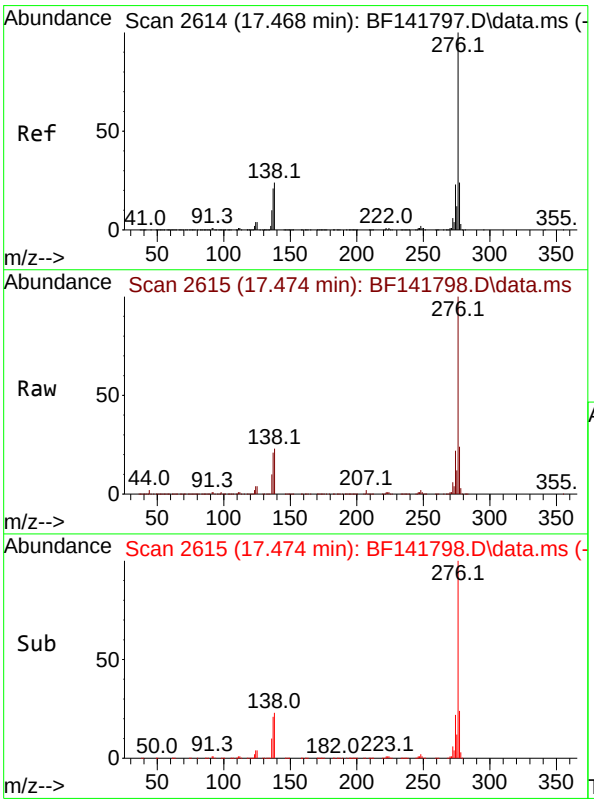
#91
Dibenzo(a,h)anthracene
Concen: 52.616 ng
RT: 17.039 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:278 Resp: 1423862

Ion	Ratio	Lower	Upper
278	100		
139	18.0	14.9	22.3
279	24.1	19.3	28.9

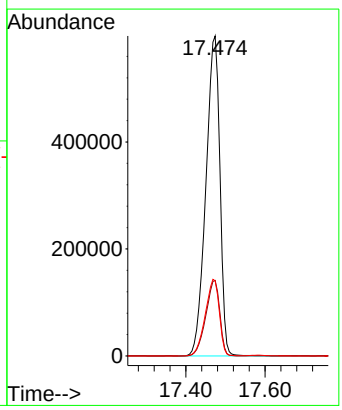




#92
Benzo(g,h,i)perylene
Concen: 53.005 ng
RT: 17.474 min Scan# 2615
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:276 Resp: 1469480

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.4	29.0
138	23.5	19.3	28.9



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141799.D
Acq On : 27 Feb 2025 18:15
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Feb 28 01:27:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	297770	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	1163023	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	617087	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	999271	20.000	ng	0.00
76) Chrysene-d12	14.051	240	562939	20.000	ng	0.00
86) Perylene-d12	15.521	264	517191	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	2100577	112.657	ng	0.00
7) Phenol-d6	6.516	99	2720970	112.117	ng	0.00
23) Nitrobenzene-d5	7.457	82	2374498	130.503	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	725271	125.191	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	4223426	109.742	ng	0.00
79) Terphenyl-d14	12.998	244	4143891	119.098	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.681	88	494559	58.455	ng	99
3) Pyridine	3.451	79	1241030	58.955	ng	99
4) n-Nitrosodimethylamine	3.410	42	612676	60.489	ng	98
6) Aniline	6.557	93	1451456	57.840	ng	99
8) 2-Chlorophenol	6.681	128	1130771	56.061	ng	99
9) Benzaldehyde	6.445	77	736273	52.156	ng	99
10) Phenol	6.534	94	1451317	56.130	ng	97
11) bis(2-Chloroethyl)ether	6.634	93	1130421	57.184	ng	98
12) 1,3-Dichlorobenzene	6.834	146	1215544	56.273	ng	99
13) 1,4-Dichlorobenzene	6.910	146	1230489	56.536	ng	99
14) 1,2-Dichlorobenzene	7.063	146	1134751	55.834	ng	100
15) Benzyl Alcohol	7.034	79	1108848	57.170	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.169	45	1706347	56.838	ng	99
17) 2-Methylphenol	7.134	107	968603	58.177	ng	99
18) Hexachloroethane	7.404	117	473809	58.163	ng	99
19) n-Nitroso-di-n-propyla...	7.316	70	899573	56.387	ng	99
20) 3+4-Methylphenols	7.292	107	1144144	55.188	ng	95
22) Acetophenone	7.304	105	1588210	56.070	ng	99
24) Nitrobenzene	7.475	77	1244392	63.867	ng	98
25) Isophorone	7.716	82	2297900	58.786	ng	100
26) 2-Nitrophenol	7.786	139	540018	60.712	ng	98
27) 2,4-Dimethylphenol	7.822	122	832135	57.912	ng	100
28) bis(2-Chloroethoxy)met...	7.922	93	1423641	57.094	ng	100
29) 2,4-Dichlorophenol	8.028	162	981508	59.211	ng	100
30) 1,2,4-Trichlorobenzene	8.116	180	1051434	57.885	ng	100
31) Naphthalene	8.198	128	3313144	55.427	ng	99
32) Benzoic acid	7.957	122	749284	60.158	ng	99
33) 4-Chloroaniline	8.245	127	1243216	56.723	ng	100
34) Hexachlorobutadiene	8.310	225	666891	59.082	ng	99
35) Caprolactam	8.628	113	309453	60.671	ng	98
36) 4-Chloro-3-methylphenol	8.716	107	1082457	58.783	ng	99
37) 2-Methylnaphthalene	8.886	142	2160902	55.115	ng	100
38) 1-Methylnaphthalene	8.986	142	2071154	55.054	ng	99
40) 1,2,4,5-Tetrachloroben...	9.051	216	1024373	57.477	ng	99
41) Hexachlorocyclopentadiene	9.039	237	458054	61.586	ng	100
43) 2,4,6-Trichlorophenol	9.157	196	681760	59.220	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141799.D
Acq On : 27 Feb 2025 18:15
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Feb 28 01:27:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

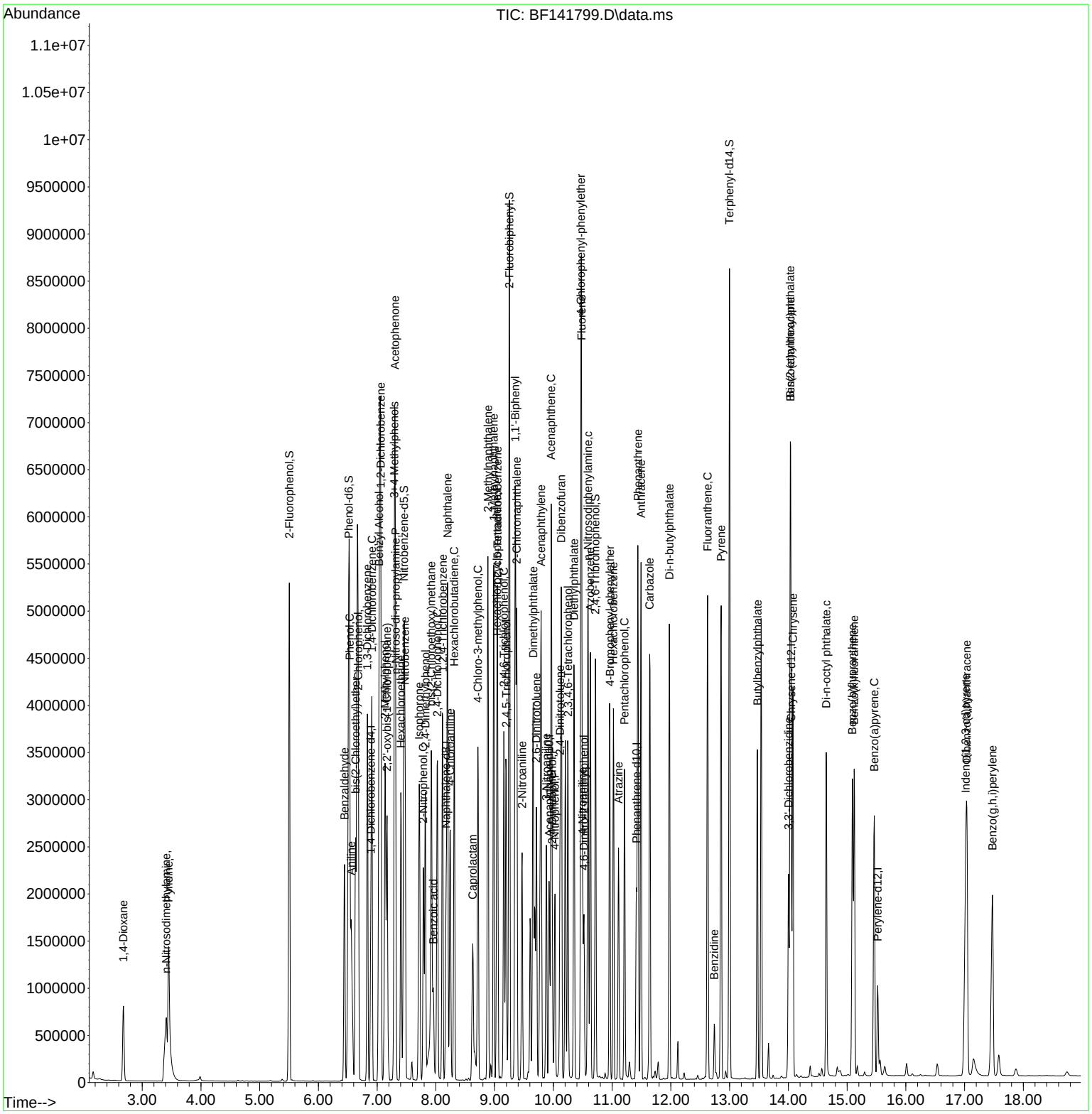
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	703662	61.725	ng		99
46) 1,1'-Biphenyl	9.351	154	2626139	55.911	ng		99
47) 2-Chloronaphthalene	9.375	162	1982513	57.187	ng		99
48) 2-Nitroaniline	9.469	65	590092	60.902	ng		98
49) Acenaphthylene	9.792	152	2954653	56.845	ng		100
50) Dimethylphthalate	9.657	163	2379542	57.581	ng		100
51) 2,6-Dinitrotoluene	9.710	165	491402	61.325	ng		98
52) Acenaphthene	9.963	154	2006502	57.211	ng		99
53) 3-Nitroaniline	9.880	138	521575	61.078	ng		99
54) 2,4-Dinitrophenol	9.980	184	207307	62.312	ng	#	13
55) Dibenzofuran	10.133	168	2854091	55.911	ng		99
56) 4-Nitrophenol	10.028	139	424581	69.564	ng		100
57) 2,4-Dinitrotoluene	10.116	165	601539	61.246	ng		99
58) Fluorene	10.480	166	2099887	54.917	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	596455	60.159	ng		99
60) Diethylphthalate	10.351	149	2360216	56.972	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	1079059	56.324	ng		98
62) 4-Nitroaniline	10.498	138	490806	69.546	ng		99
63) Azobenzene	10.627	77	2453259	56.242	ng		99
65) 4,6-Dinitro-2-methylph...	10.522	198	300954	61.255	ng		99
66) n-Nitrosodiphenylamine	10.592	169	1867463	56.913	ng		98
67) 4-Bromophenyl-phenylether	10.963	248	688777	59.012	ng		97
68) Hexachlorobenzene	11.022	284	726507	58.945	ng		98
69) Atrazine	11.110	200	416878	46.200	ng		100
70) Pentachlorophenol	11.210	266	492228	62.968	ng		99
71) Phenanthrene	11.439	178	3002094	56.165	ng		99
72) Anthracene	11.492	178	2966353	55.373	ng		99
73) Carbazole	11.639	167	2612132	55.217	ng		99
74) Di-n-butylphthalate	11.974	149	3338525	55.675	ng		99
75) Fluoranthene	12.627	202	2940034	53.680	ng		99
77) Benzidine	12.739	184	306135	43.207	ng		99
78) Pyrene	12.857	202	2927964	60.064	ng		100
80) Butylbenzylphthalate	13.474	149	1126511	63.605	ng		100
81) Benzo(a)anthracene	14.039	228	2130928	57.309	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	614898	57.639	ng		100
83) Chrysene	14.080	228	2040957	59.545	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	1398602	63.421	ng		99
85) Di-n-octyl phthalate	14.645	149	2225625	67.411	ng		99
87) Indeno(1,2,3-cd)pyrene	17.021	276	2127125	64.589	ng		100
88) Benzo(b)fluoranthene	15.092	252	2126076	60.349	ng		99
89) Benzo(k)fluoranthene	15.121	252	1614240	53.909	ng		100
90) Benzo(a)pyrene	15.462	252	1676196	59.327	ng		99
91) Dibenzo(a,h)anthracene	17.039	278	1708189	63.544	ng		100
92) Benzo(g,h,i)perylene	17.474	276	1792957	65.105	ng		99

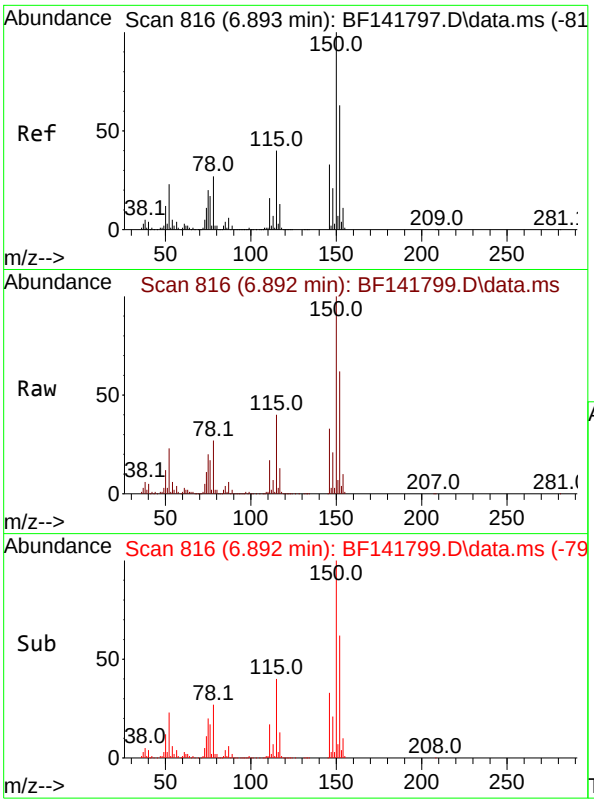
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141799.D
Acq On : 27 Feb 2025 18:15
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Feb 28 01:27:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration



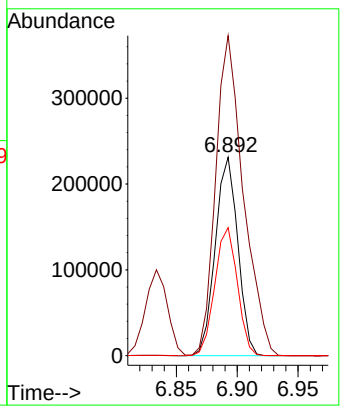


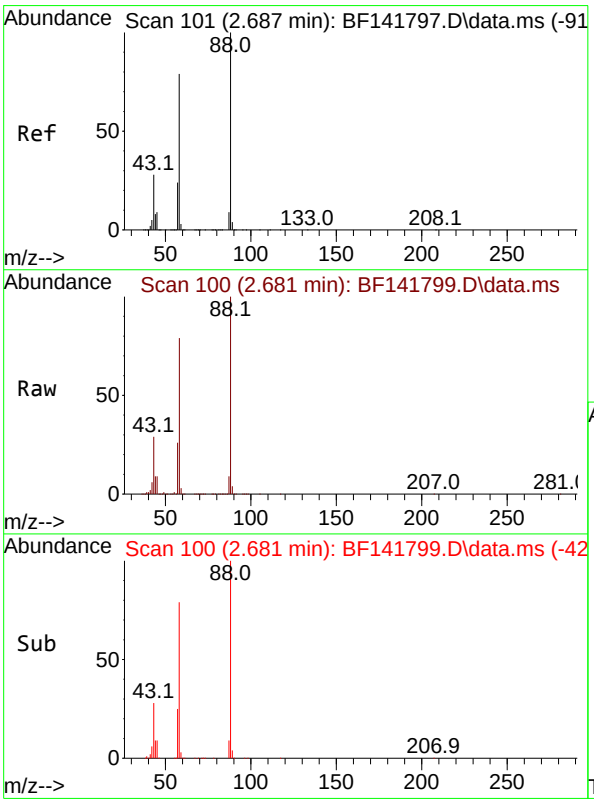
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 81
Delta R.T. -0.001 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 297770

Ion	Ratio	Lower	Upper
152	100		
150	161.3	127.5	191.3
115	64.5	51.4	77.2

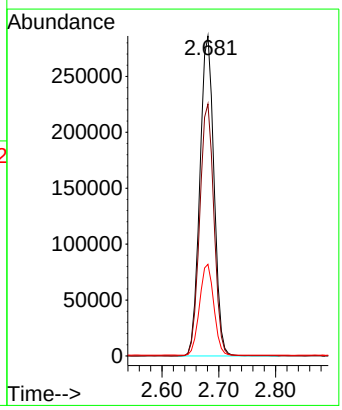


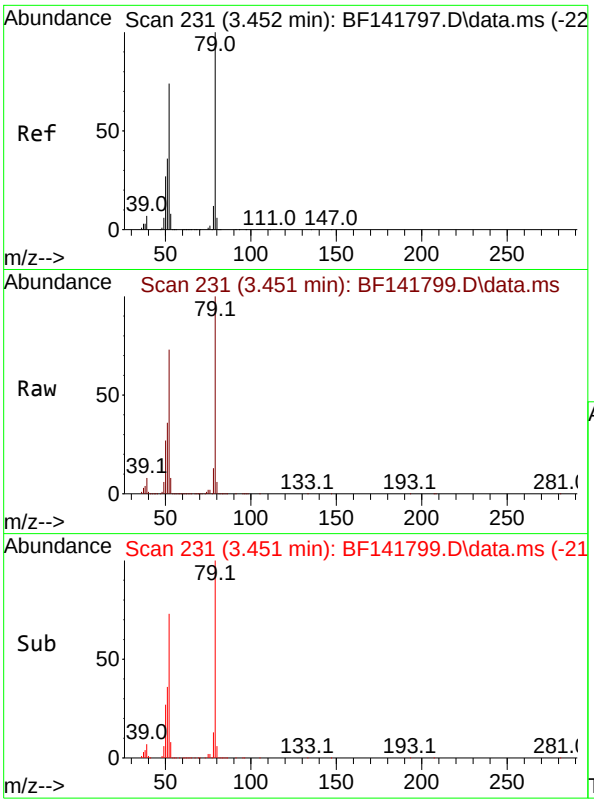


#2
1,4-Dioxane
Concen: 58.455 ng
RT: 2.681 min Scan# 100
Delta R.T. -0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 88 Resp: 494559

Ion	Ratio	Lower	Upper
88	100		
58	79.2	63.9	95.9
43	28.6	23.0	34.6



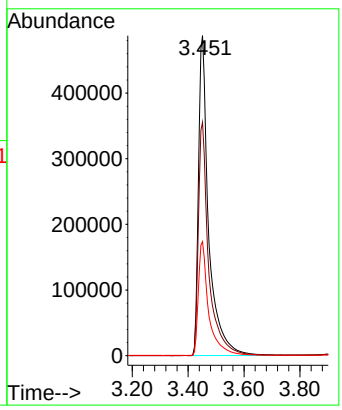


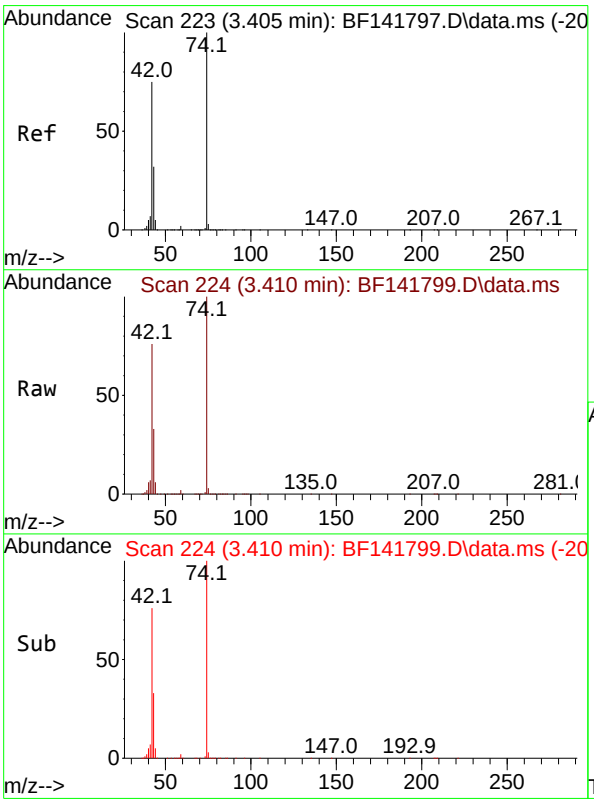
#3
Pyridine
Concen: 58.955 ng
RT: 3.451 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 1241030

Ion	Ratio	Lower	Upper
79	100		
52	73.0	59.0	88.4
51	35.6	29.0	43.4

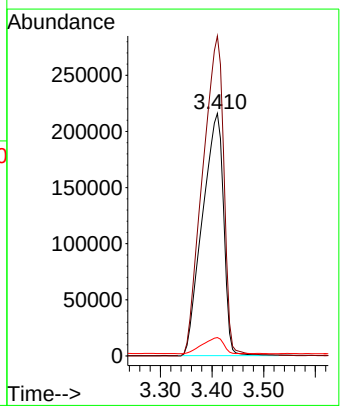


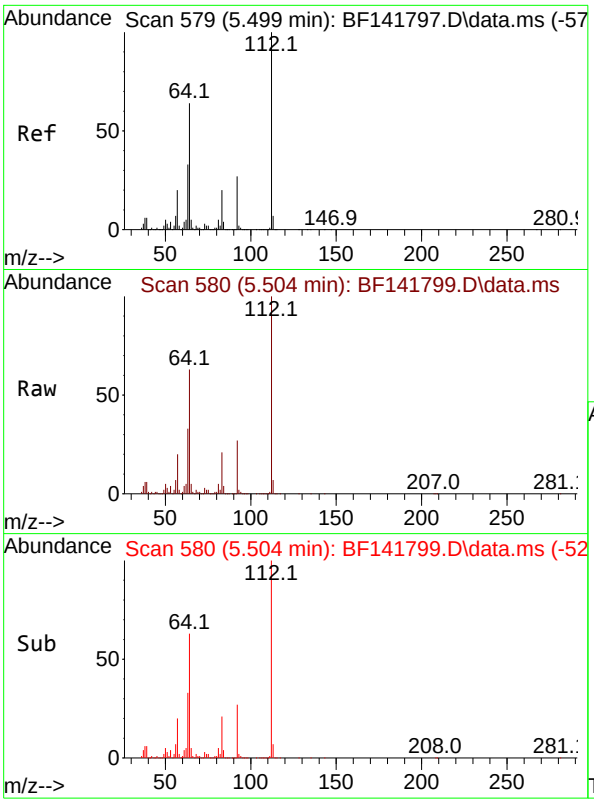


#4
n-Nitrosodimethylamine
Concen: 60.489 ng
RT: 3.410 min Scan# 224
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 42 Resp: 612676

Ion	Ratio	Lower	Upper
42	100		
74	131.9	107.1	160.7
44	7.6	6.6	9.8



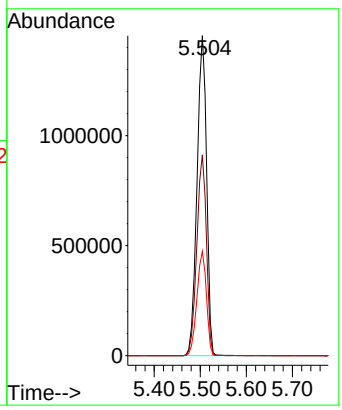


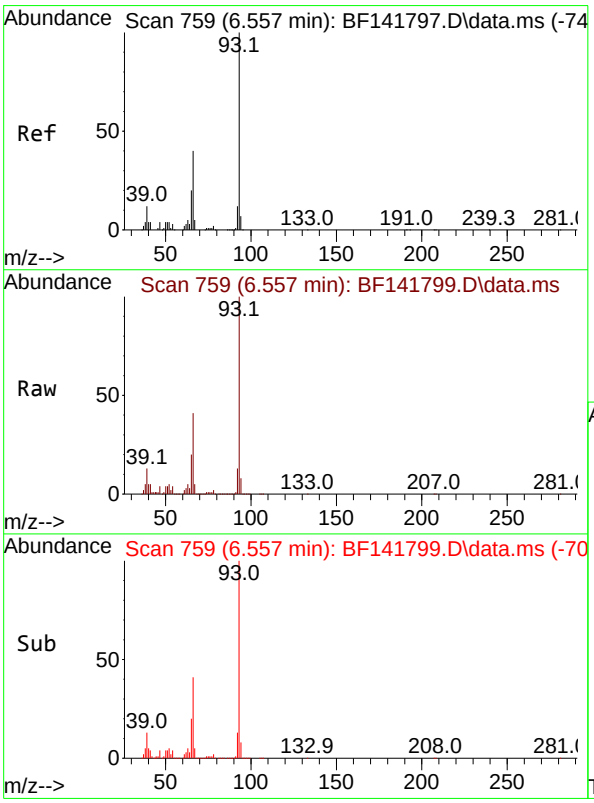
#5
2-Fluorophenol
Concen: 112.657 ng
RT: 5.504 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:112 Resp: 2100577

Ion	Ratio	Lower	Upper
112	100		
64	62.8	51.3	76.9
63	32.6	26.2	39.4

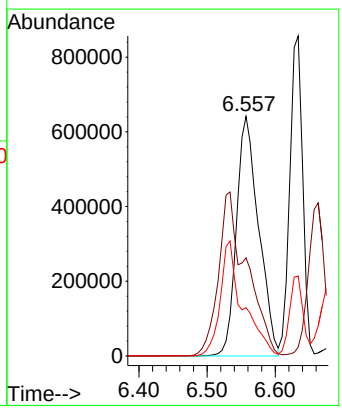


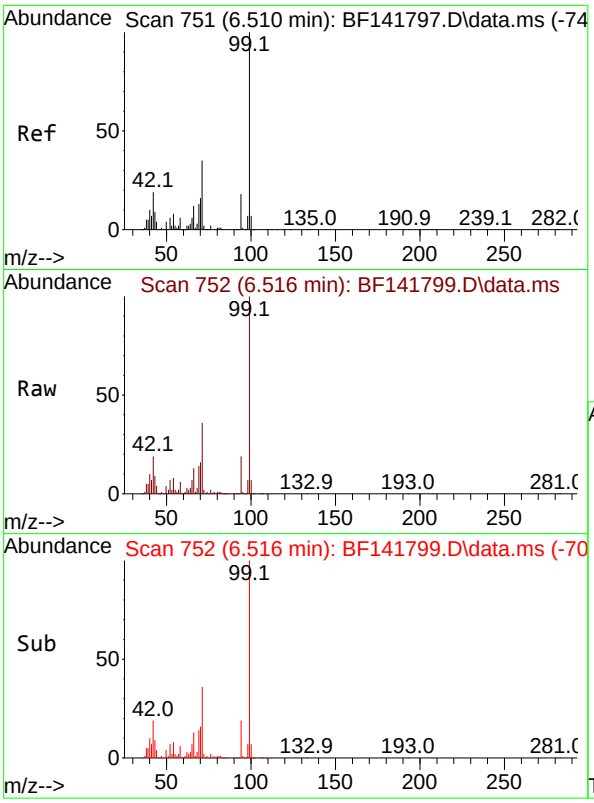


#6
Aniline
Concen: 57.840 ng
RT: 6.557 min Scan# 759
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 93 Resp: 1451456

Ion	Ratio	Lower	Upper
93	100		
66	41.0	32.3	48.5
65	20.2	15.9	23.9



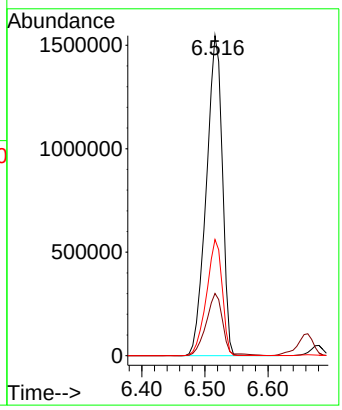


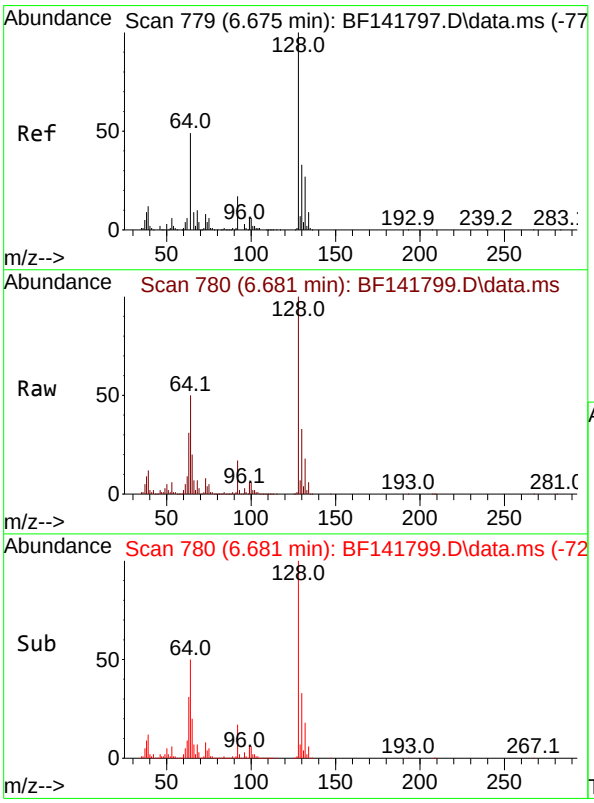
#7
Phenol-d6
Concen: 112.117 ng
RT: 6.516 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 99 Resp: 2720970

Ion	Ratio	Lower	Upper
99	100		
42	19.5	15.2	22.8
71	36.3	28.2	42.2

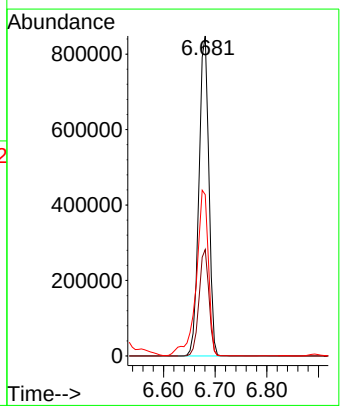


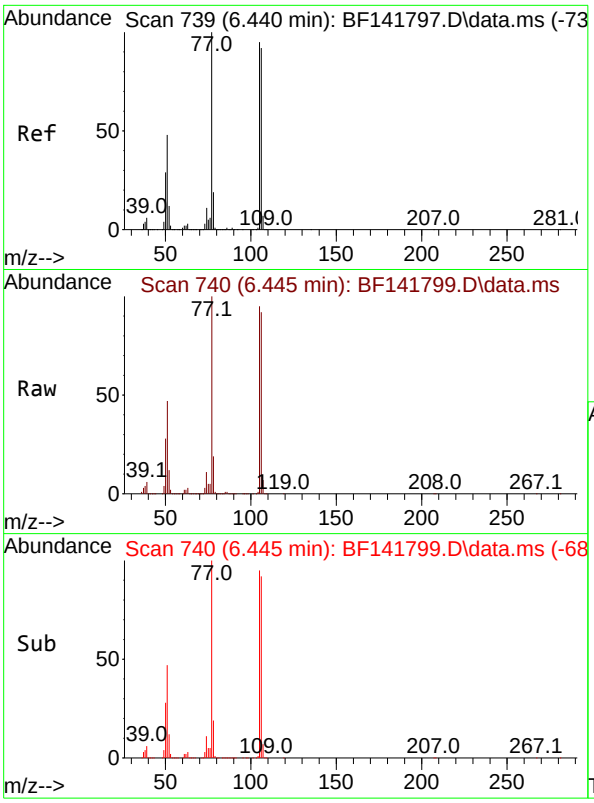


#8
2-Chlorophenol
Concen: 56.061 ng
RT: 6.681 min Scan# 780
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:128 Resp: 1130771

Ion	Ratio	Lower	Upper
128	100		
130	33.3	12.6	52.6
64	50.4	31.1	71.1



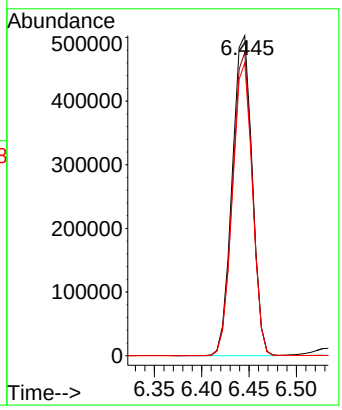


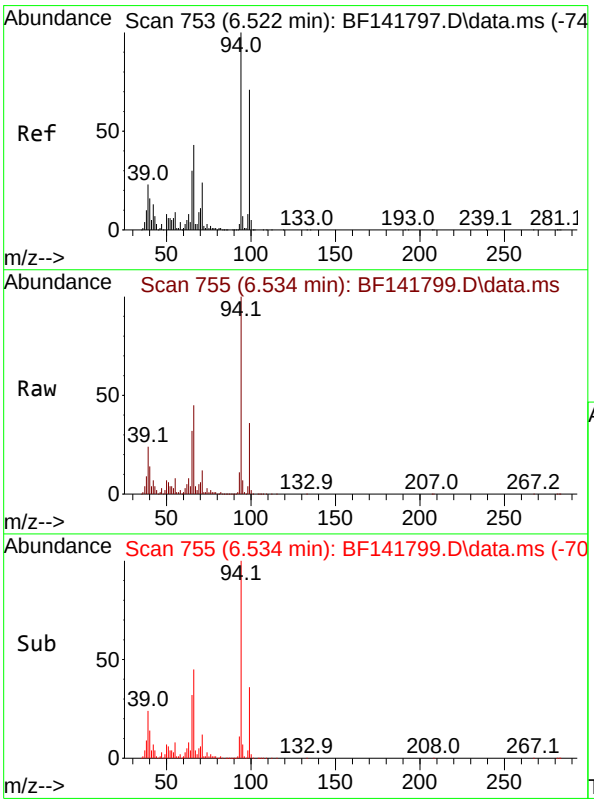
#9
Benzaldehyde
Concen: 52.156 ng
RT: 6.445 min Scan# 74
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 736273

Ion	Ratio	Lower	Upper
77	100		
105	94.7	75.3	115.3
106	91.6	72.3	112.3

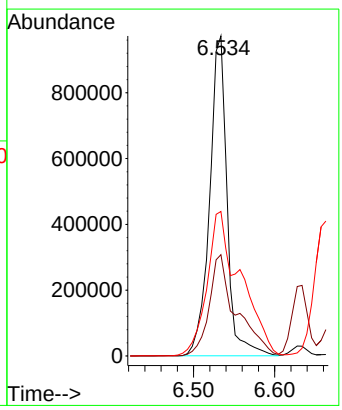


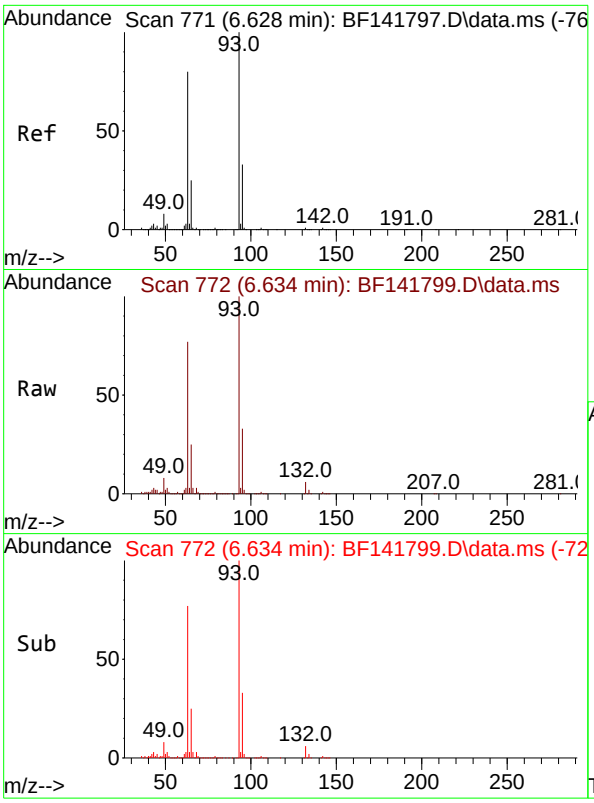


#10
Phenol
Concen: 56.130 ng
RT: 6.534 min Scan# 755
Delta R.T. 0.012 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 94 Resp: 1451317

Ion	Ratio	Lower	Upper
94	100		
65	31.7	10.2	50.2
66	45.1	23.2	63.2



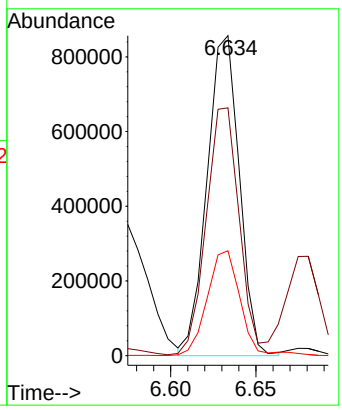


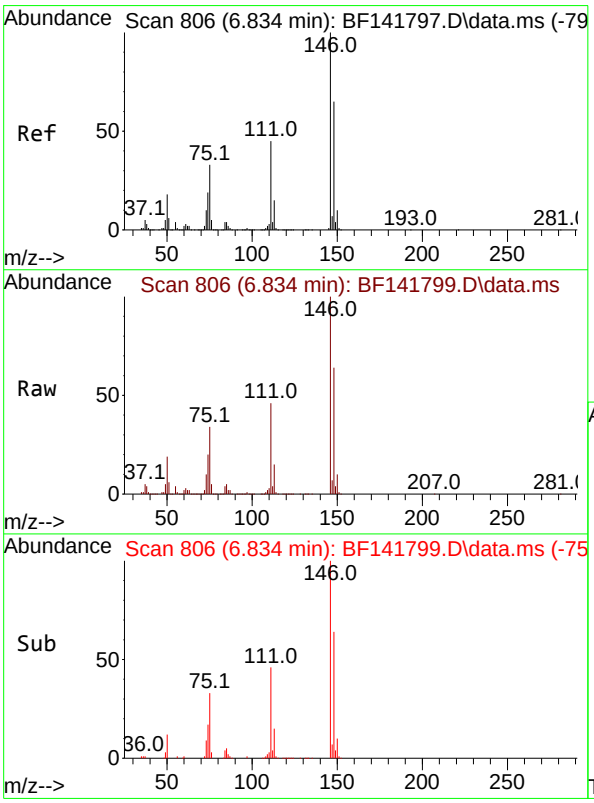
#11
bis(2-Chloroethyl)ether
Concen: 57.184 ng
RT: 6.634 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 93 Resp: 1130421

Ion	Ratio	Lower	Upper
93	100		
63	77.4	59.3	99.3
95	32.8	13.2	53.2

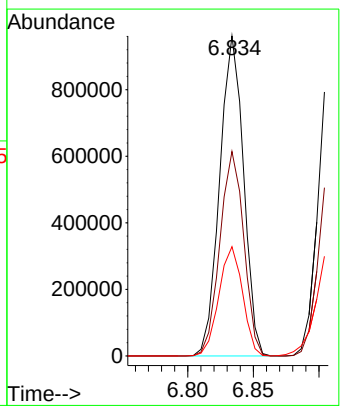


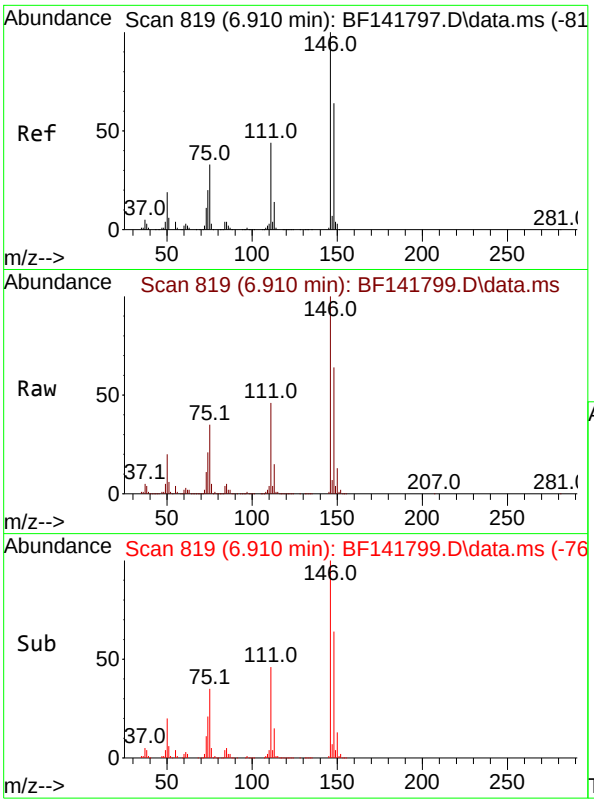


#12
1,3-Dichlorobenzene
Concen: 56.273 ng
RT: 6.834 min Scan# 806
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:146 Resp: 1215544

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.8	77.6
75	34.1	26.2	39.4



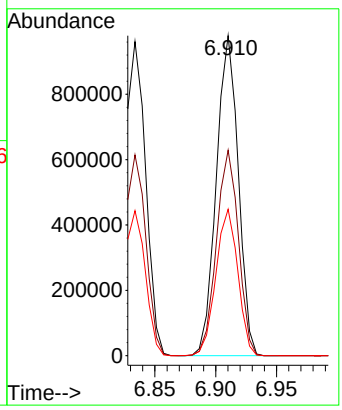


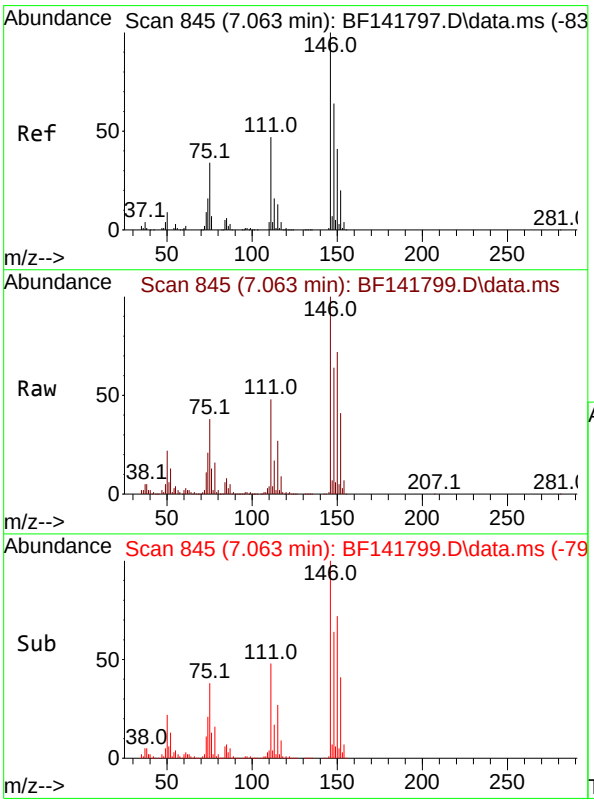
#13
1,4-Dichlorobenzene
Concen: 56.536 ng
RT: 6.910 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:146 Resp: 1230489

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.4	77.2
111	45.8	35.5	53.3

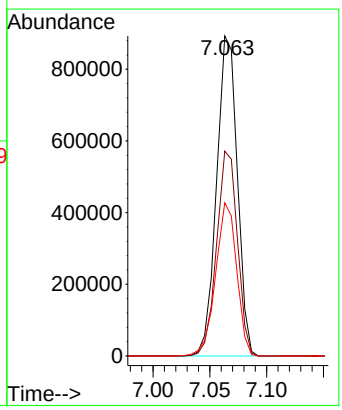


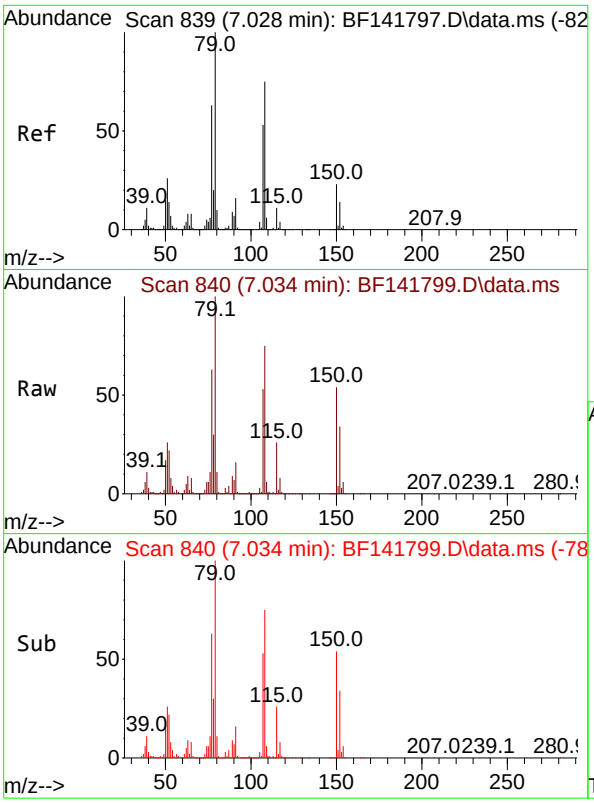


#14
1,2-Dichlorobenzene
Concen: 55.834 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:146 Resp: 1134751

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.2	76.8
111	47.8	37.8	56.6



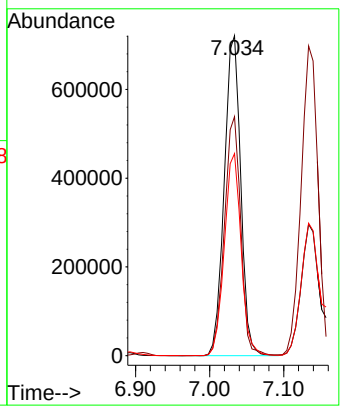


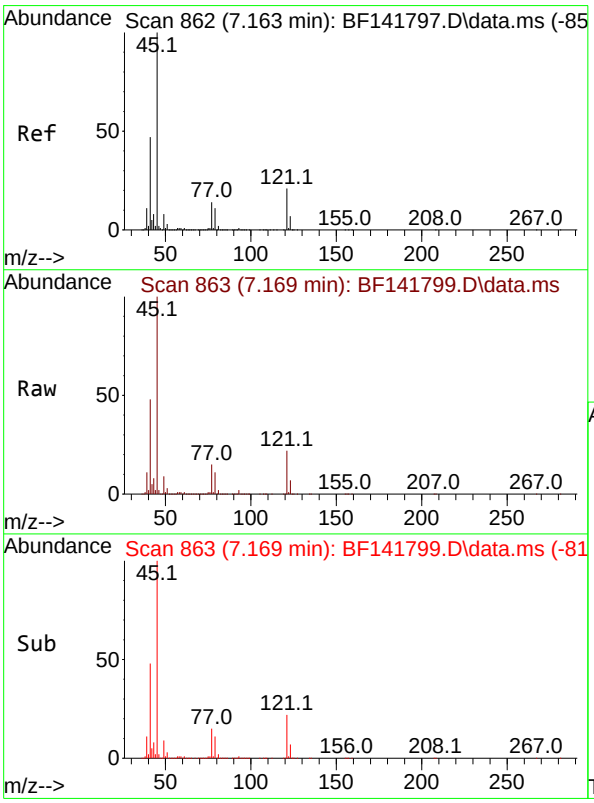
#15
Benzyl Alcohol
Concen: 57.170 ng
RT: 7.034 min Scan# 84
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 1108848

Ion	Ratio	Lower	Upper
79	100		
108	74.7	60.2	90.2
77	63.2	50.2	75.2

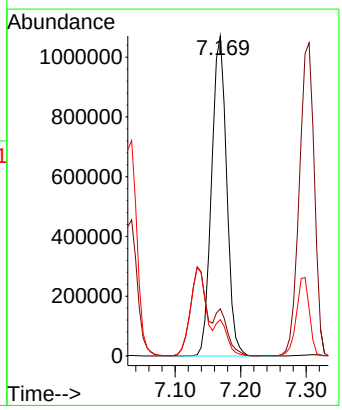


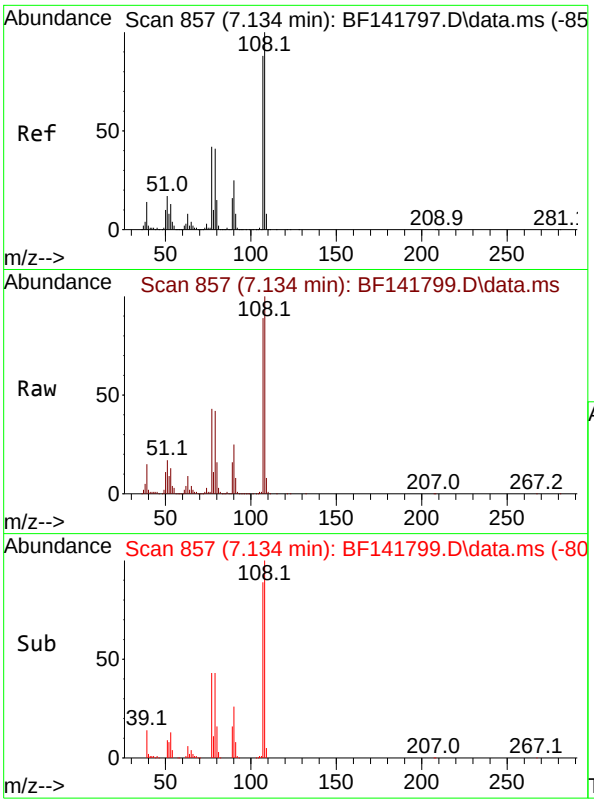


#16
2,2'-oxybis(1-Chloropropane)
Concen: 56.838 ng
RT: 7.169 min Scan# 863
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 45 Resp: 1706347

Ion	Ratio	Lower	Upper
45	100		
77	14.7	0.0	34.4
79	11.4	0.0	30.9



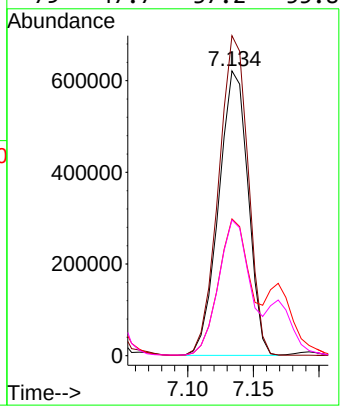


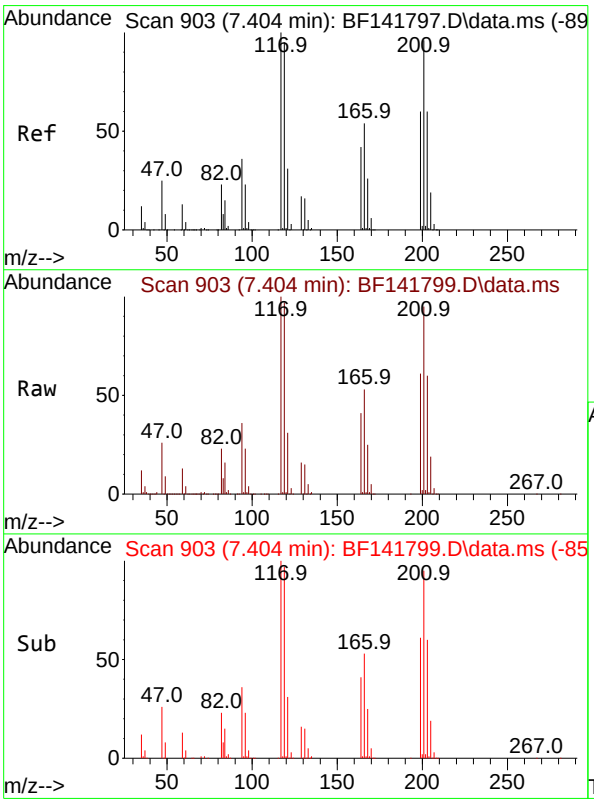
#17
2-Methylphenol
Concen: 58.177 ng
RT: 7.134 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:107 Resp: 968603

Ion	Ratio	Lower	Upper
107	100		
108	112.4	90.6	135.8
77	48.0	37.7	56.5
79	47.7	37.2	55.8

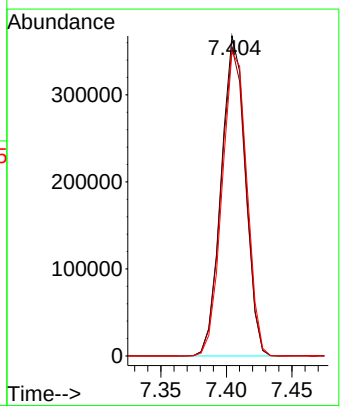


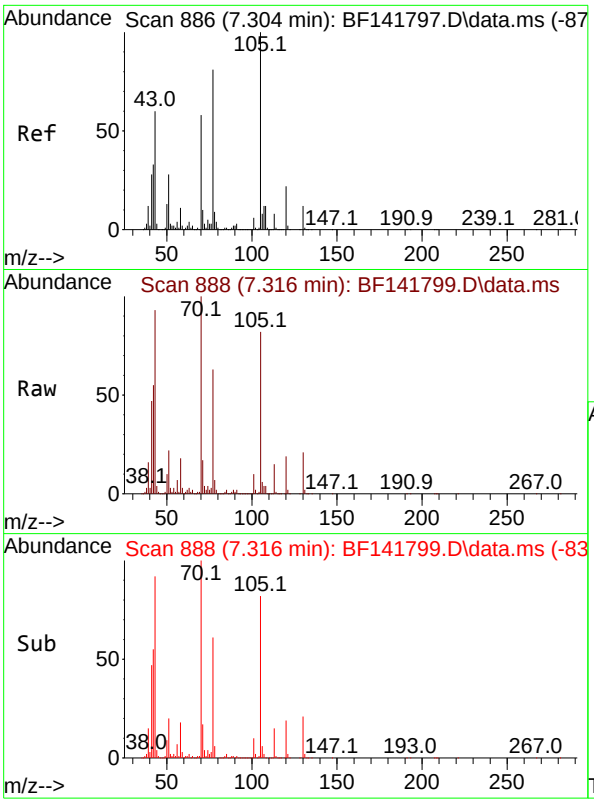


#18
Hexachloroethane
Concen: 58.163 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:117 Resp: 473809

Ion	Ratio	Lower	Upper
117	100		
119	96.5	75.8	113.8
201	95.0	76.7	115.1



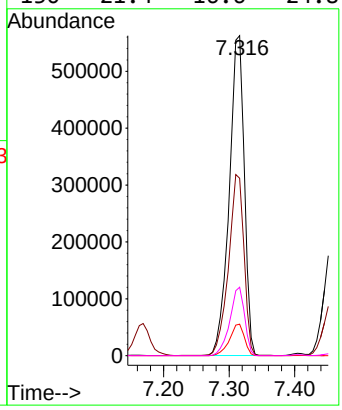


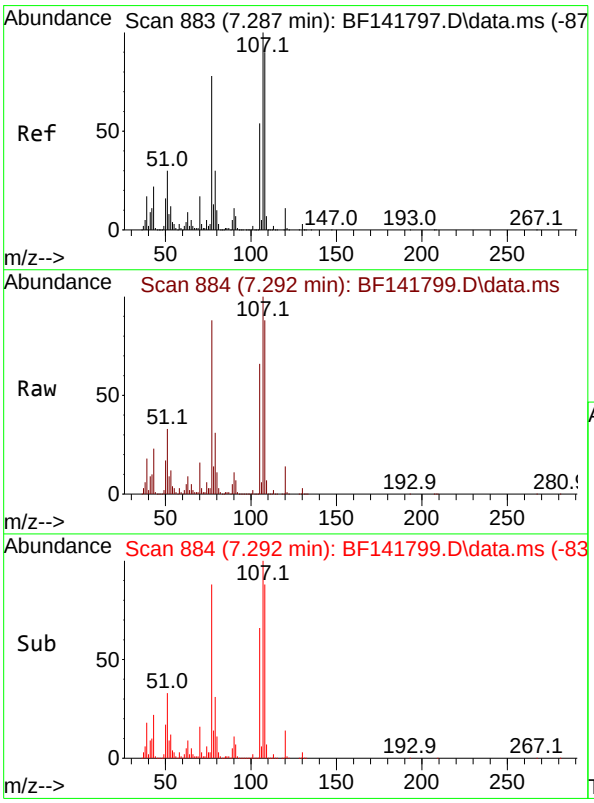
#19
n-Nitroso-di-n-propylamine
Concen: 56.387 ng
RT: 7.316 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 70 Resp: 899573

Ion	Ratio	Lower	Upper
70	100		
42	55.5	45.4	68.0
101	9.9	7.8	11.8
130	21.4	16.6	24.8

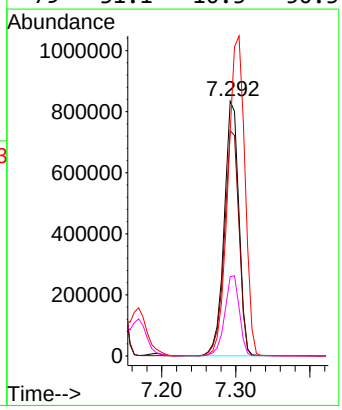


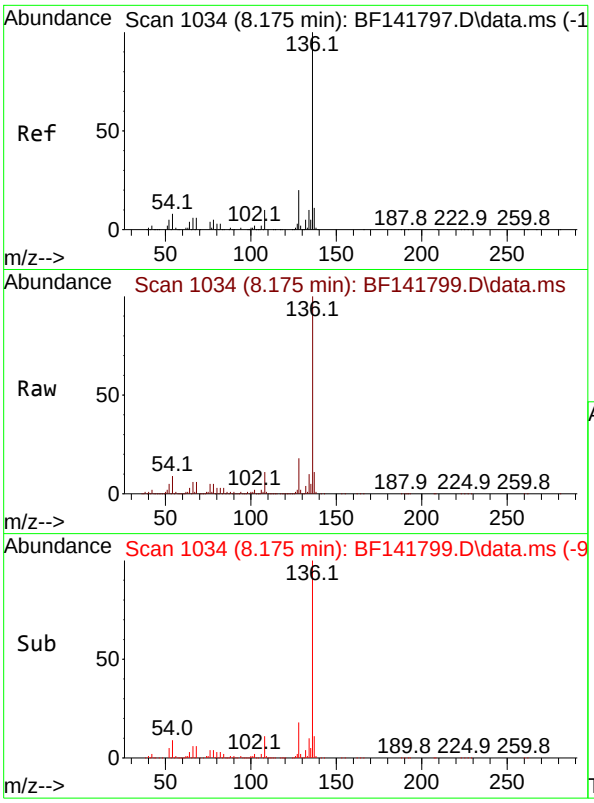


#20
3+4-Methylphenols
Concen: 55.188 ng
RT: 7.292 min Scan# 884
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:107 Resp: 1144144

Ion	Ratio	Lower	Upper
107	100		
108	88.4	69.7	109.7
77	88.3	58.3	98.3
79	31.1	10.3	50.3



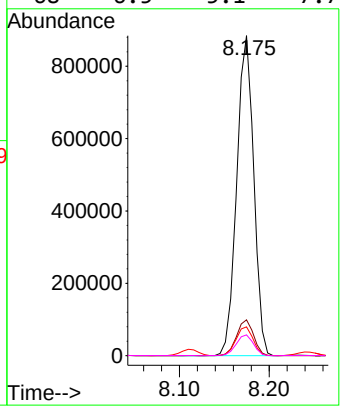


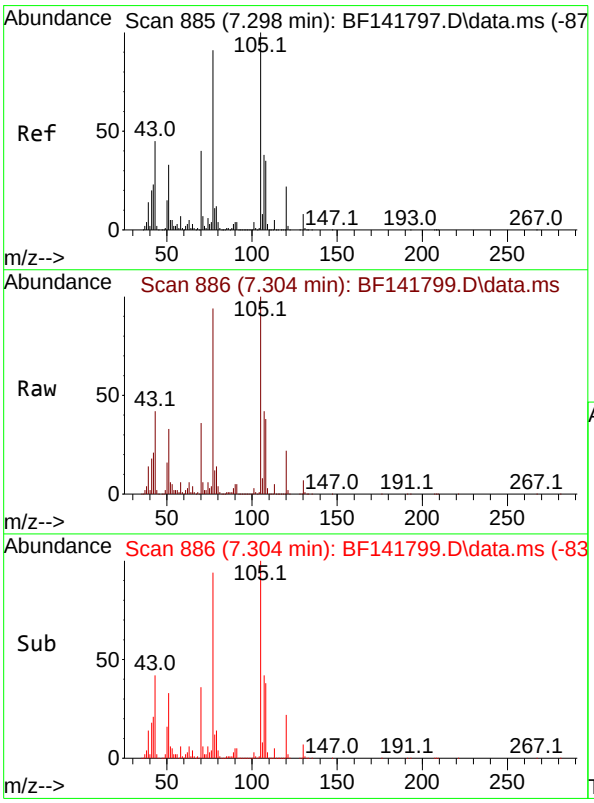
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:136 Resp: 1163023

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	9.0	6.9	10.3
68	6.5	5.1	7.7

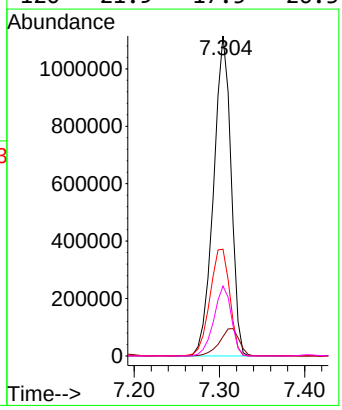


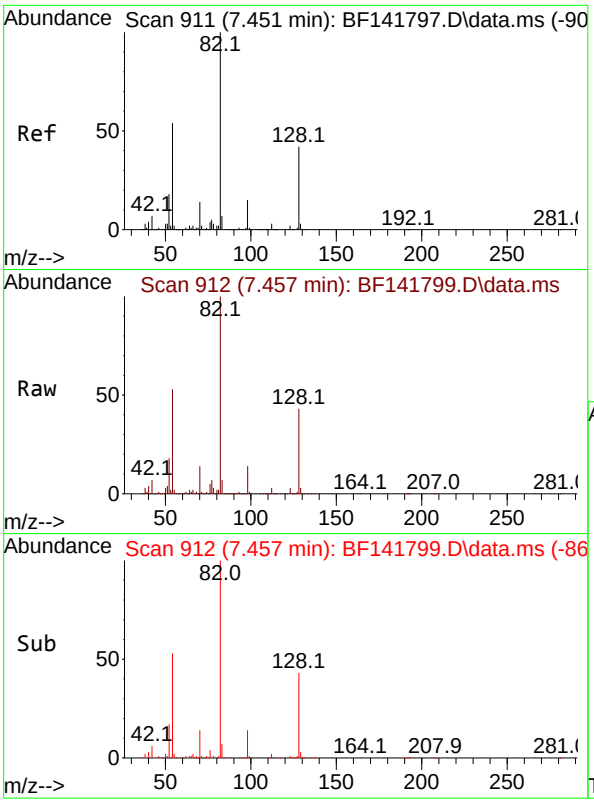


#22
Acetophenone
Concen: 56.070 ng
RT: 7.304 min Scan# 886
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:105 Resp: 1588210

Ion	Ratio	Lower	Upper
105	100		
71	6.1	5.4	8.0
51	33.4	26.1	39.1
120	21.9	17.5	26.3



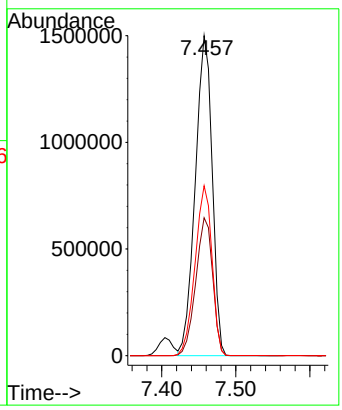


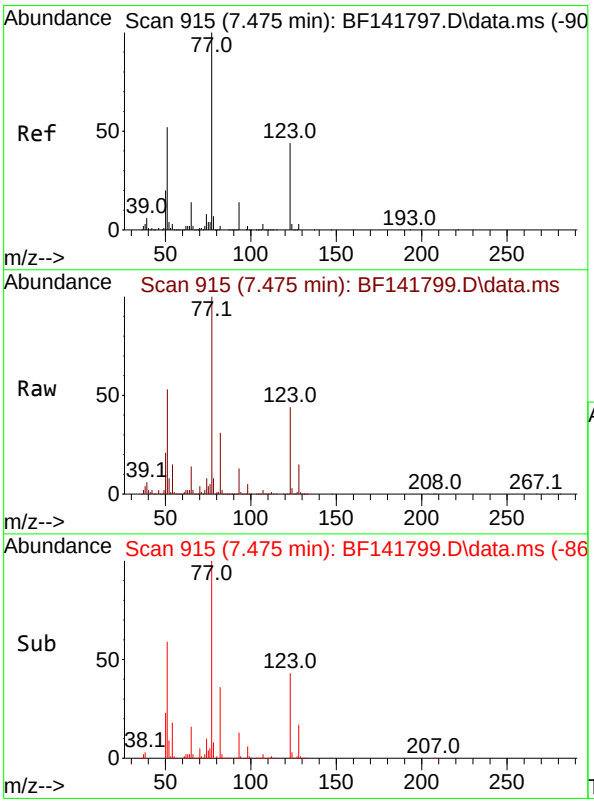
#23
Nitrobenzene-d5
Concen: 130.503 ng
RT: 7.457 min Scan# 91
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 2374498

Ion	Ratio	Lower	Upper
82	100		
128	43.1	33.5	50.3
54	53.1	42.7	64.1

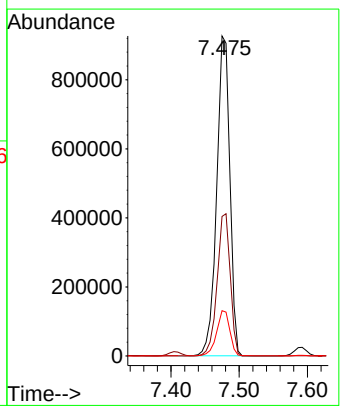


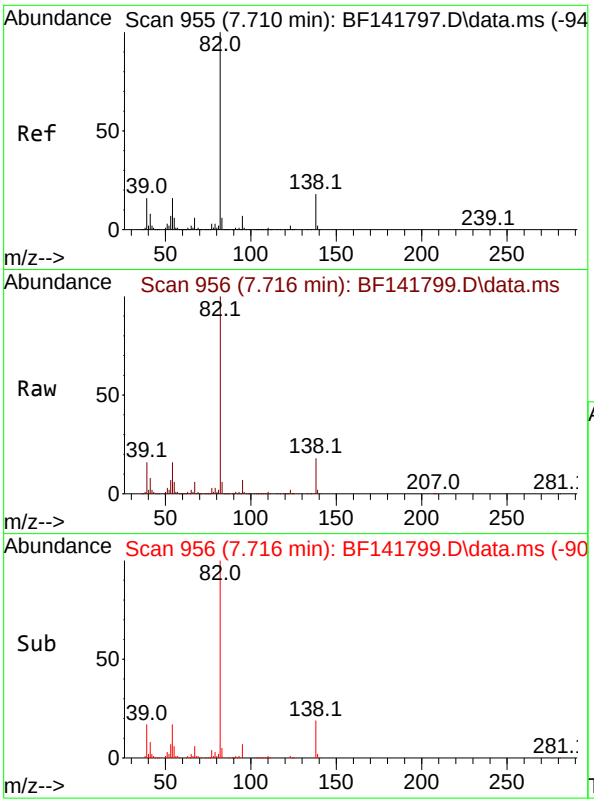


#24
Nitrobenzene
Concen: 63.867 ng
RT: 7.475 min Scan# 915
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 77 Resp: 1244392

Ion	Ratio	Lower	Upper
77	100		
123	43.6	35.8	53.8
65	14.2	11.2	16.8



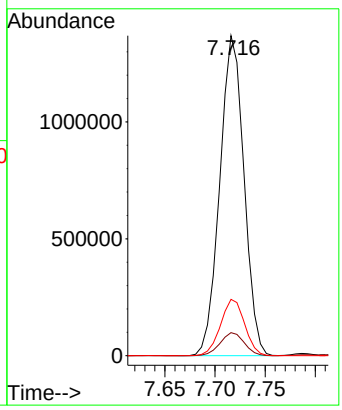


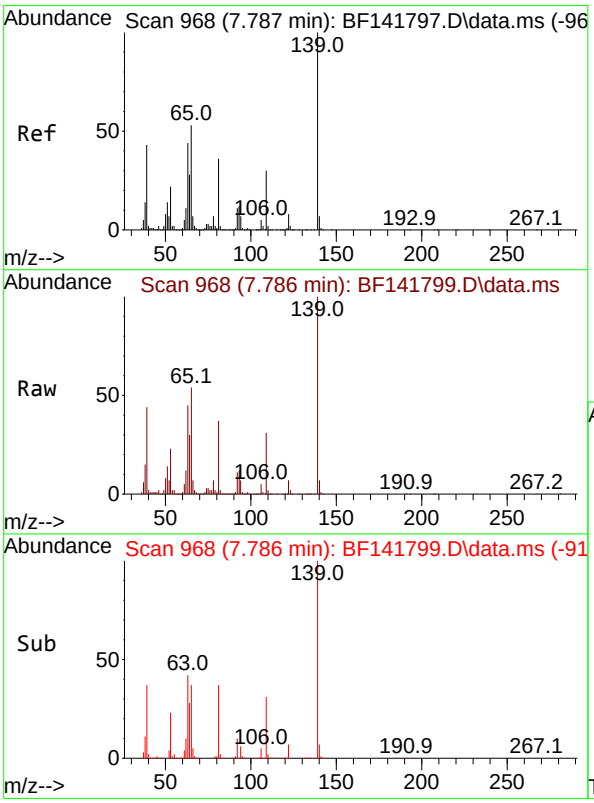
#25
Isophorone
Concen: 58.786 ng
RT: 7.716 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 2297900

Ion	Ratio	Lower	Upper
82	100		
95	7.2	5.8	8.8
138	17.6	14.0	21.0

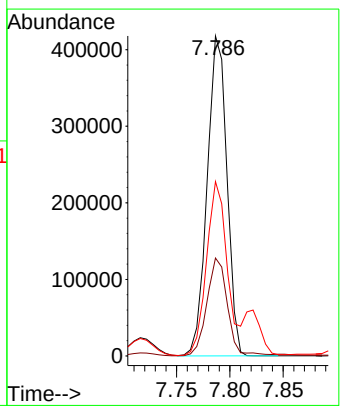


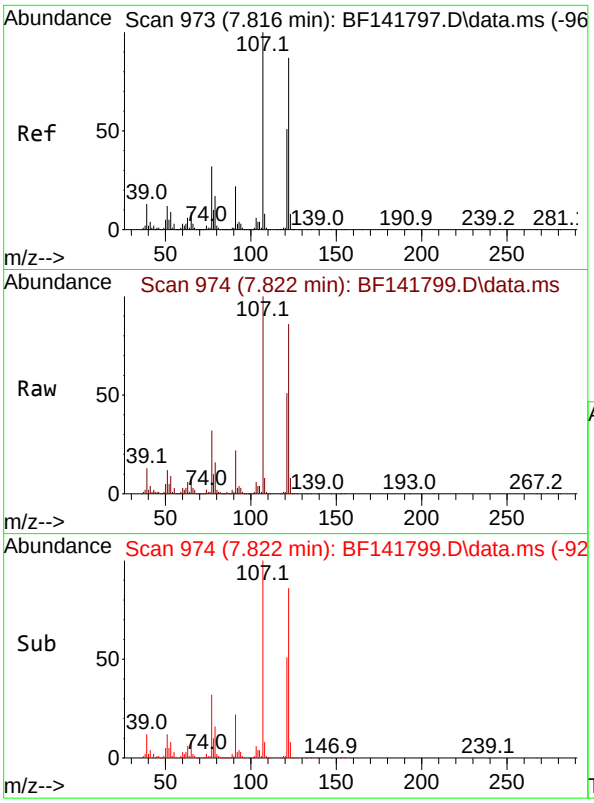


#26
2-Nitrophenol
Concen: 60.712 ng
RT: 7.786 min Scan# 968
Delta R.T. -0.001 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:139 Resp: 540018

Ion	Ratio	Lower	Upper
139	100		
109	30.6	24.1	36.1
65	54.5	42.3	63.5



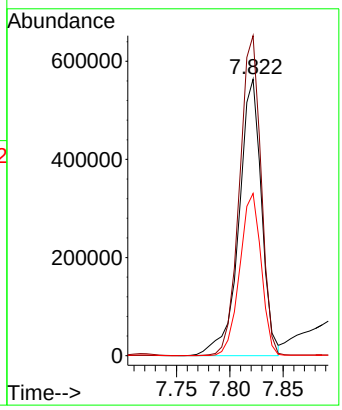


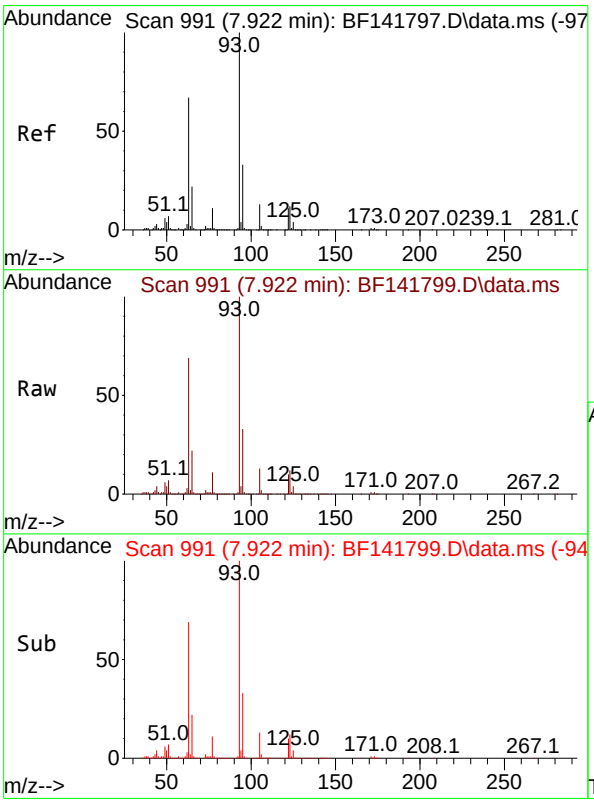
#27
2,4-Dimethylphenol
Concen: 57.912 ng
RT: 7.822 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:122 Resp: 832135

Ion	Ratio	Lower	Upper
122	100		
107	115.7	92.5	138.7
121	58.7	47.1	70.7

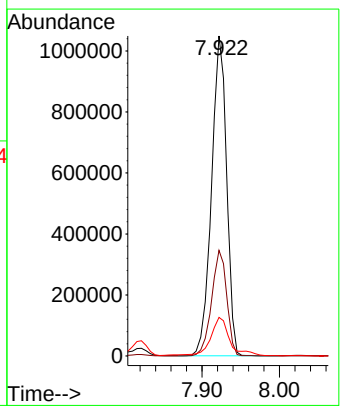


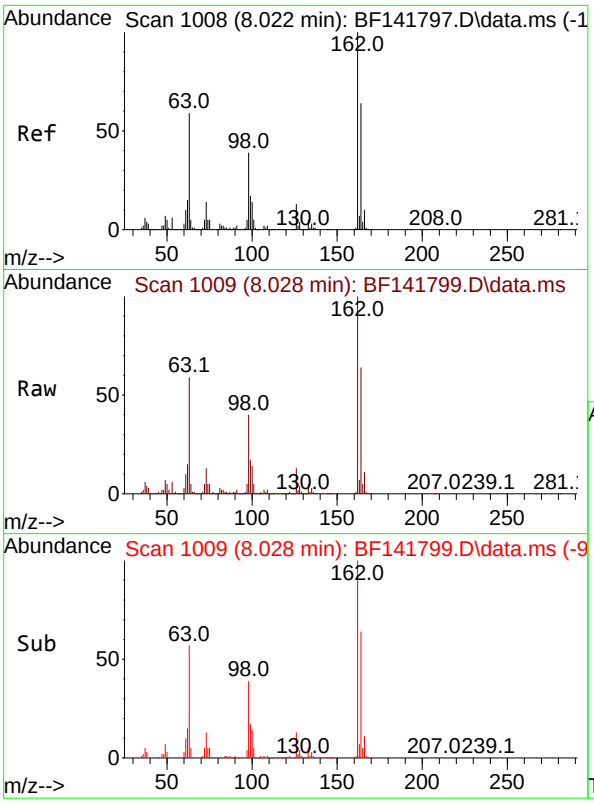


#28
bis(2-Chloroethoxy)methane
Concen: 57.094 ng
RT: 7.922 min Scan# 991
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 93 Resp: 1423641

Ion	Ratio	Lower	Upper
93	100		
95	33.0	26.5	39.7
123	12.1	10.0	15.0



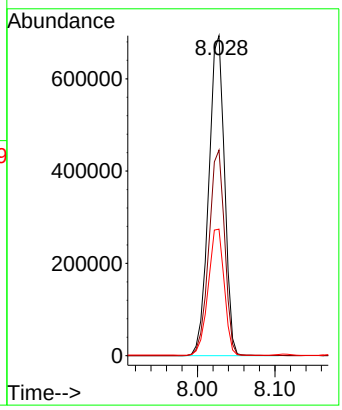


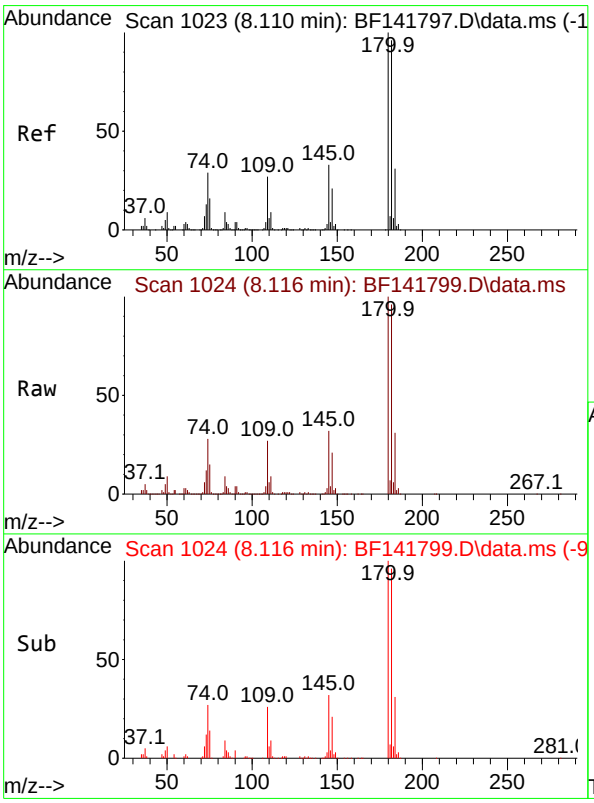
#29
2,4-Dichlorophenol
Concen: 59.211 ng
RT: 8.028 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 981508

Ion	Ratio	Lower	Upper
162	100		
164	64.2	44.3	84.3
98	39.5	19.6	59.6

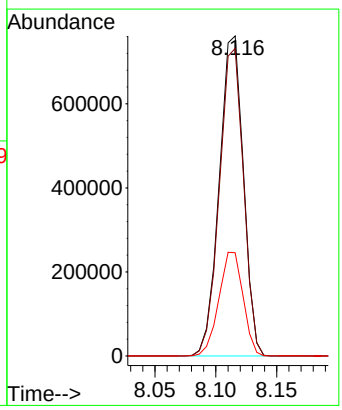


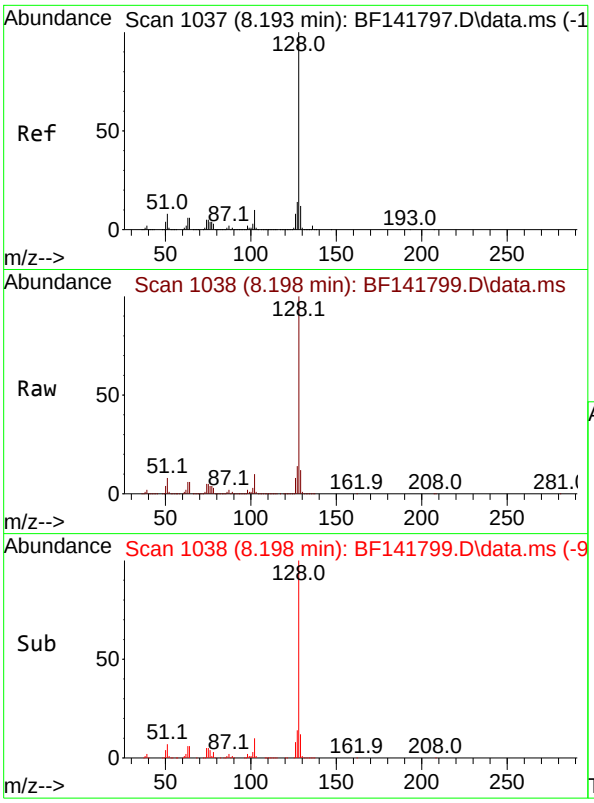


#30
1,2,4-Trichlorobenzene
Concen: 57.885 ng
RT: 8.116 min Scan# 1024
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:180 Resp: 1051434

Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.8	115.2
145	32.2	26.4	39.6



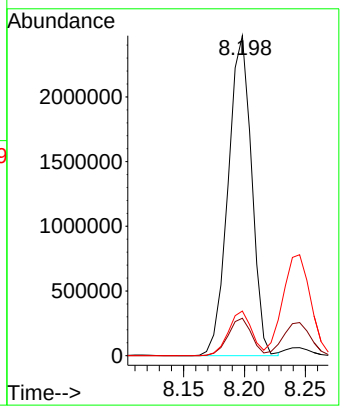


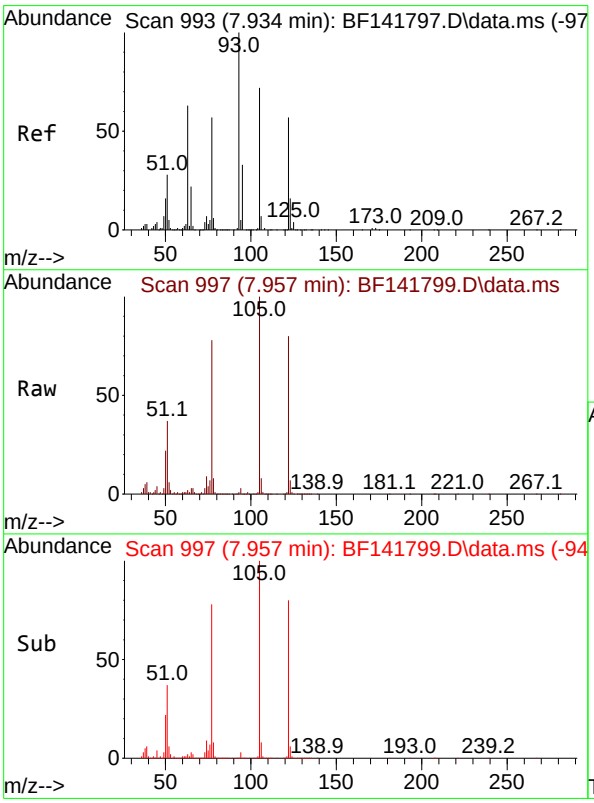
#31
Naphthalene
Concen: 55.427 ng
RT: 8.198 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:128 Resp: 3313144

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.2	13.8
127	13.9	11.0	16.4

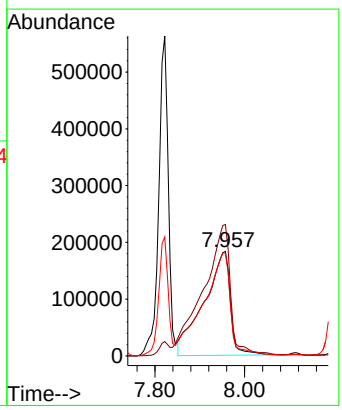


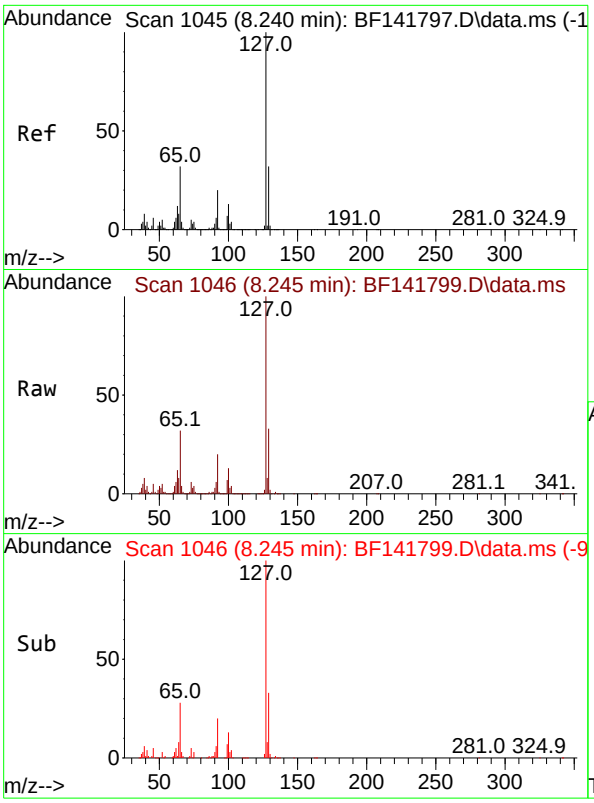


#32
Benzoic acid
Concen: 60.158 ng
RT: 7.957 min Scan# 997
Delta R.T. 0.023 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:122 Resp: 749284

Ion	Ratio	Lower	Upper
122	100		
105	125.7	105.8	145.8
77	98.5	79.9	119.9



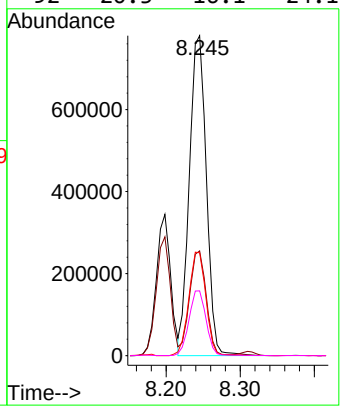


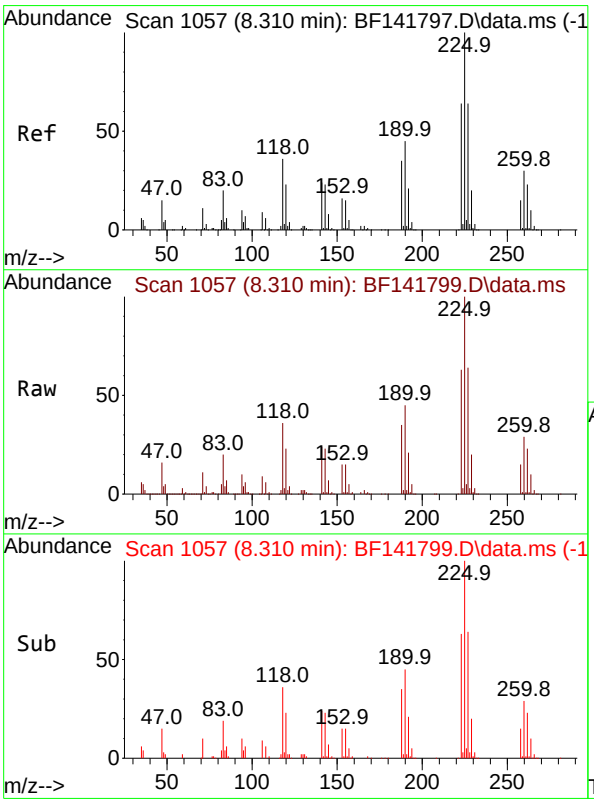
#33
4-Chloroaniline
Concen: 56.723 ng
RT: 8.245 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:127 Resp: 1243216

Ion	Ratio	Lower	Upper
127	100		
129	32.8	26.1	39.1
65	32.2	25.7	38.5
92	20.3	16.1	24.1

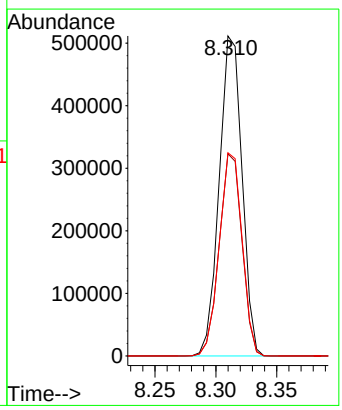


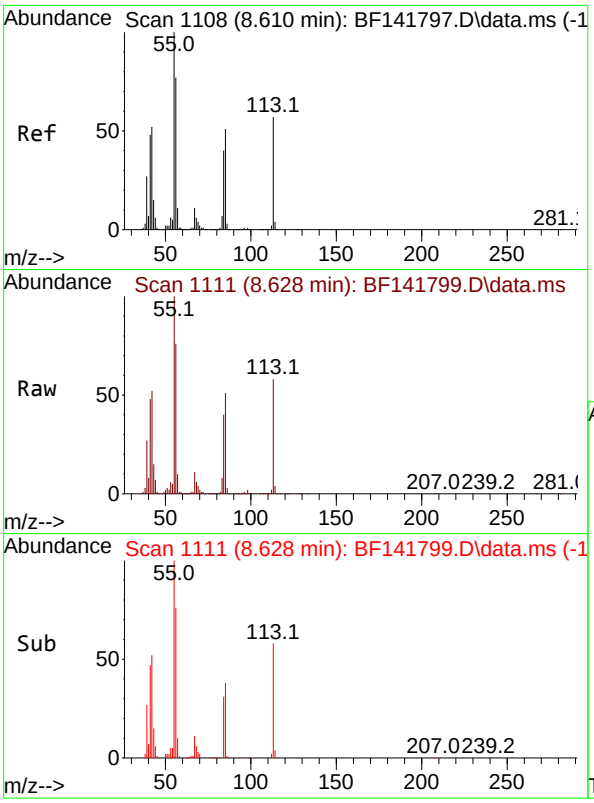


#34
Hexachlorobutadiene
Concen: 59.082 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:225 Resp: 666891

Ion	Ratio	Lower	Upper
225	100		
223	63.2	51.4	77.2
227	63.5	51.6	77.4



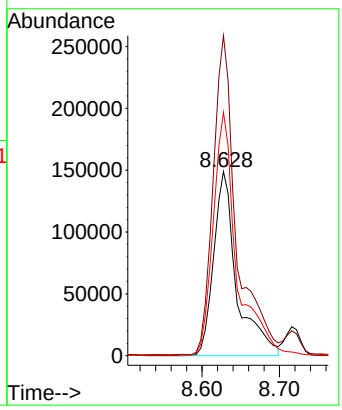


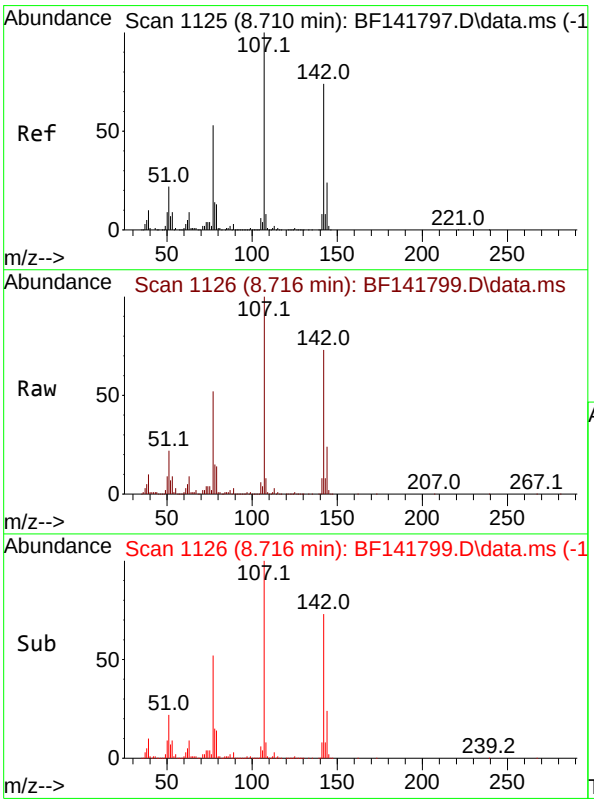
#35
Caprolactam
Concen: 60.671 ng
RT: 8.628 min Scan# 11
Delta R.T. 0.018 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:113 Resp: 309453

Ion	Ratio	Lower	Upper
113	100		
55	173.8	155.6	195.6
56	132.2	114.6	154.6

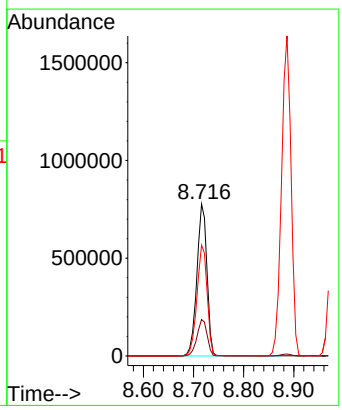


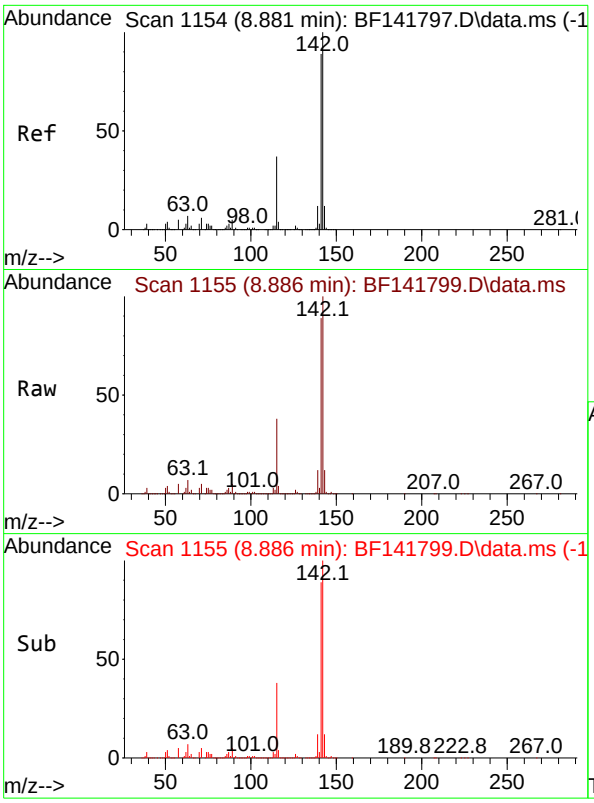


#36
4-Chloro-3-methylphenol
Concen: 58.783 ng
RT: 8.716 min Scan# 1126
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:107 Resp: 1082457

Ion	Ratio	Lower	Upper
107	100		
144	24.0	19.4	29.0
142	73.0	59.4	89.0



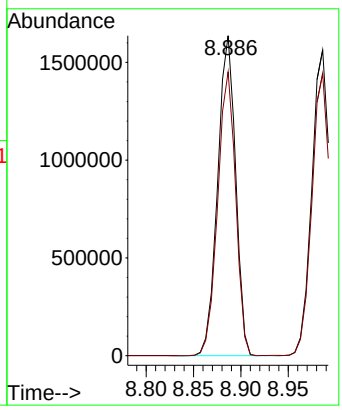


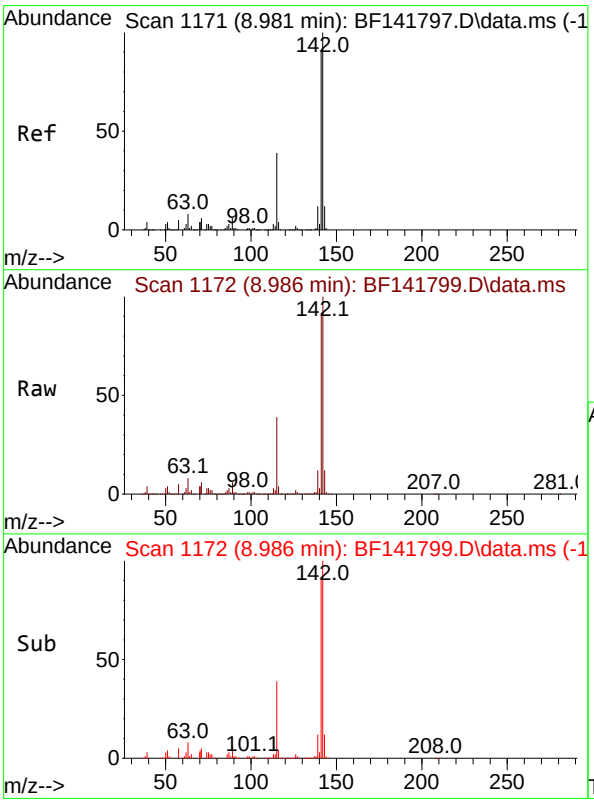
#37
2-Methylnaphthalene
Concen: 55.115 ng
RT: 8.886 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:142 Resp: 2160902

Ion	Ratio	Lower	Upper
142	100		
141	88.7	71.1	106.7

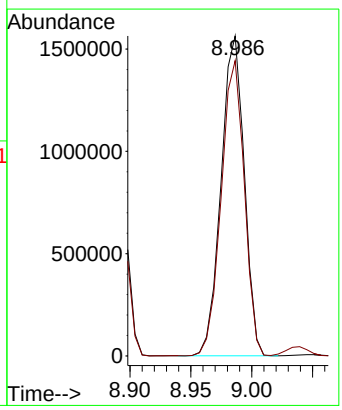


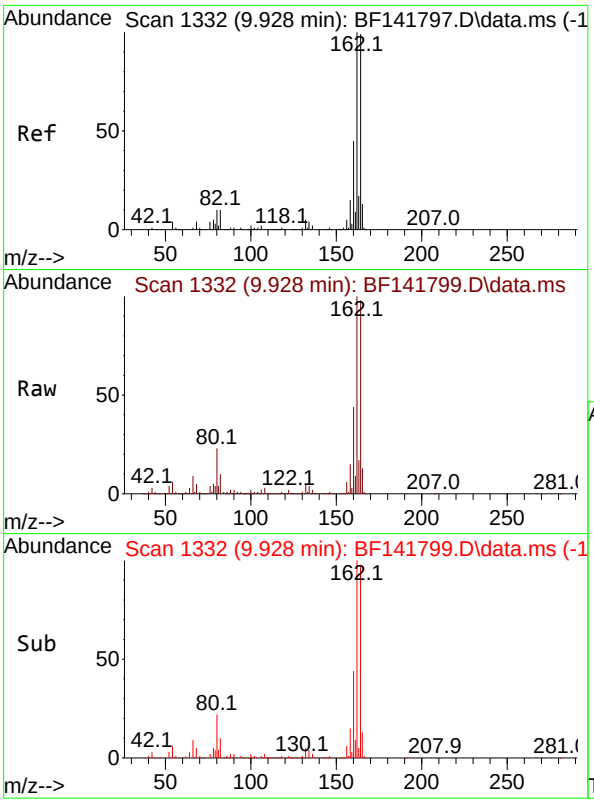


#38
1-Methylnaphthalene
Concen: 55.054 ng
RT: 8.986 min Scan# 1172
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:142 Resp: 2071154

Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.1	109.7



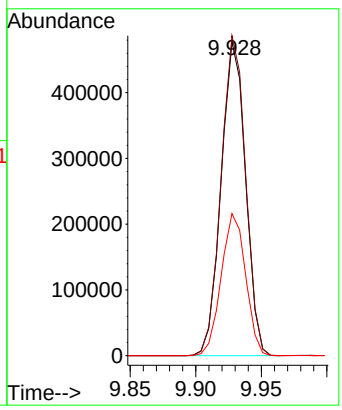


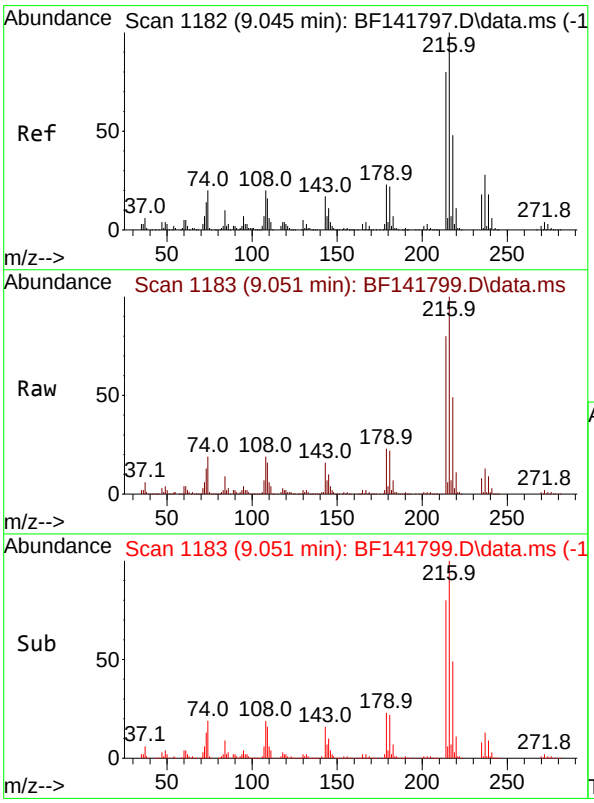
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:164 Resp: 617087

Ion	Ratio	Lower	Upper
164	100		
162	102.0	80.6	120.8
160	45.3	36.3	54.5

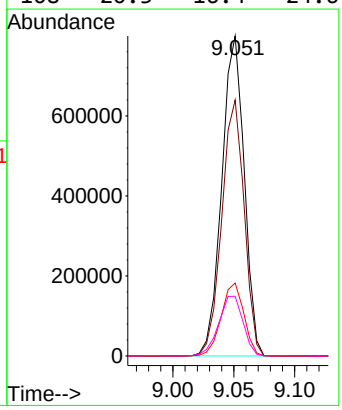


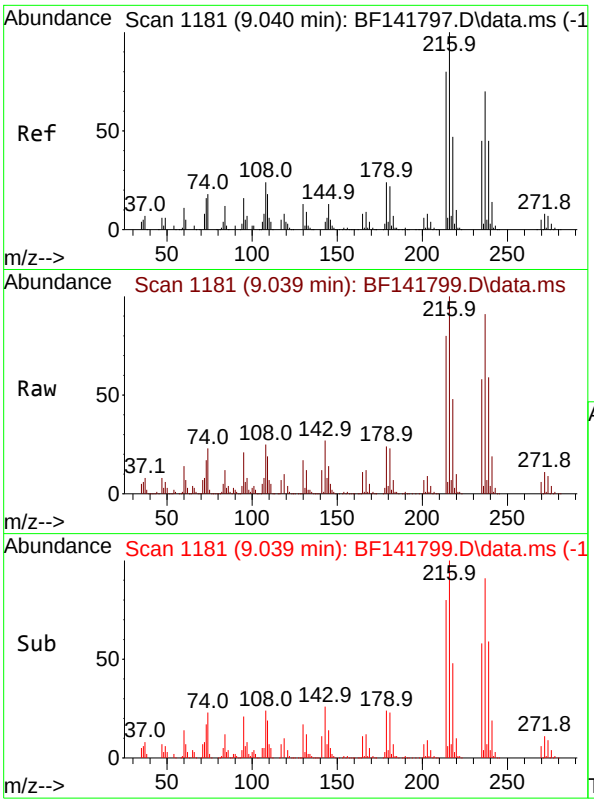


#40
1,2,4,5-Tetrachlorobenzene
Concen: 57.477 ng
RT: 9.051 min Scan# 1183
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:216 Resp: 1024373

Ion	Ratio	Lower	Upper
216	100		
214	79.8	63.5	95.3
179	23.0	18.1	27.1
108	20.3	16.4	24.6



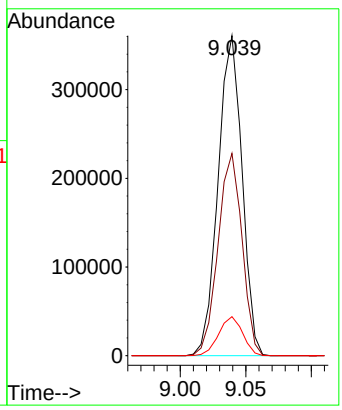


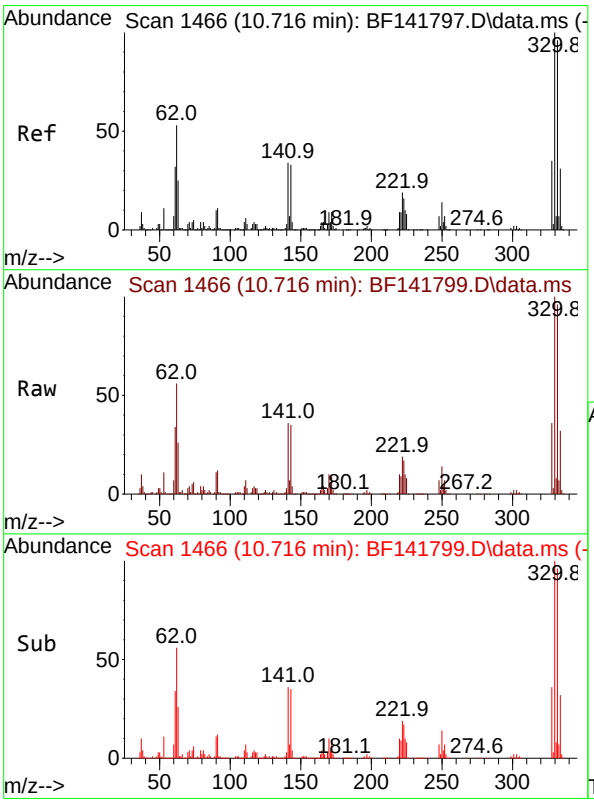
#41
Hexachlorocyclopentadiene
Concen: 61.586 ng
RT: 9.039 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:237 Resp: 458054

Ion	Ratio	Lower	Upper
237	100		
235	63.2	43.3	83.3
272	12.2	0.0	31.9

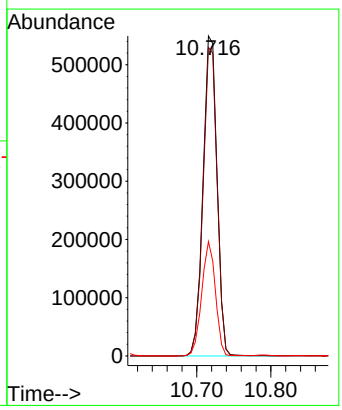


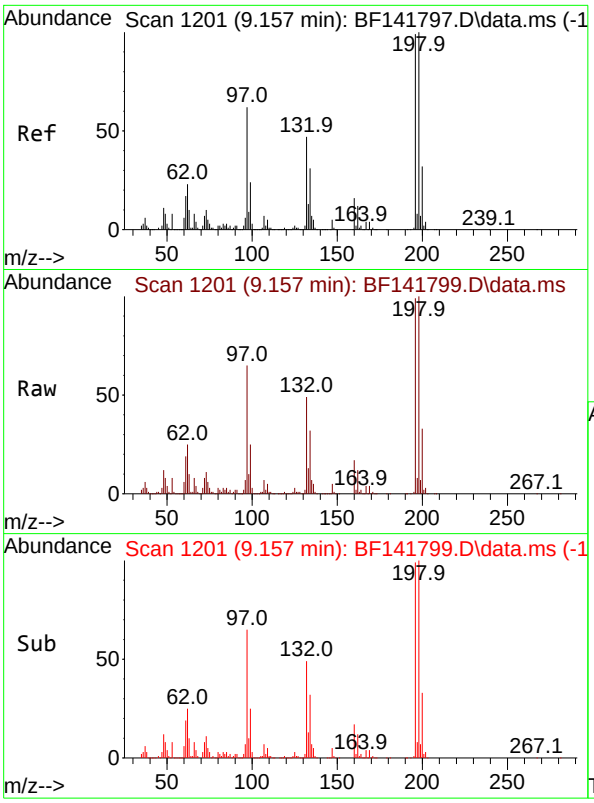


#42
2,4,6-Tribromophenol
Concen: 125.191 ng
RT: 10.716 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:330 Resp: 725271

Ion	Ratio	Lower	Upper
330	100		
332	96.7	76.6	115.0
141	34.9	29.0	43.4



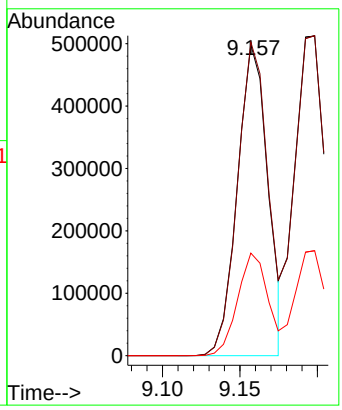


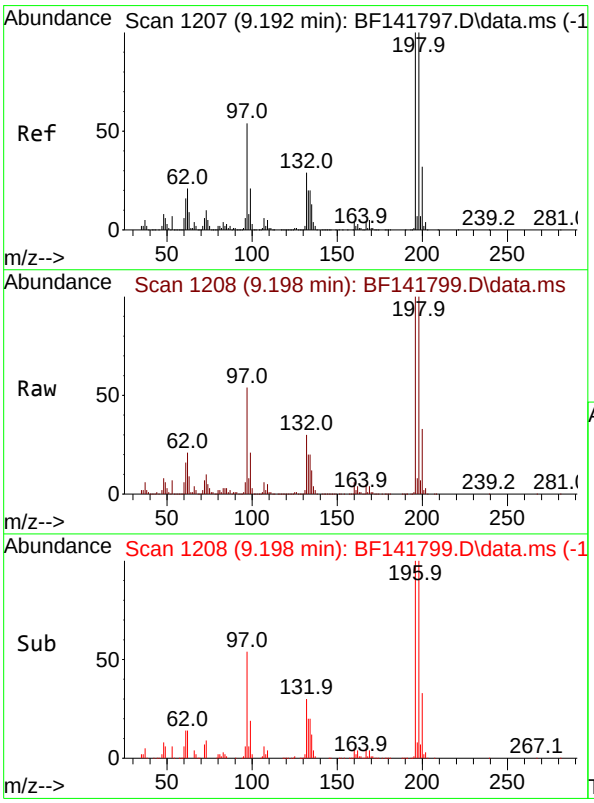
#43
2,4,6-Trichlorophenol
Concen: 59.220 ng
RT: 9.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:196 Resp: 681760

Ion	Ratio	Lower	Upper
196	100		
198	100.8	80.4	120.6
200	33.0	25.7	38.5

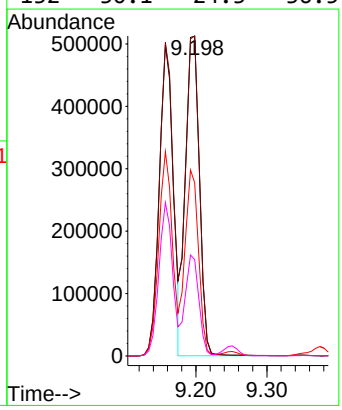


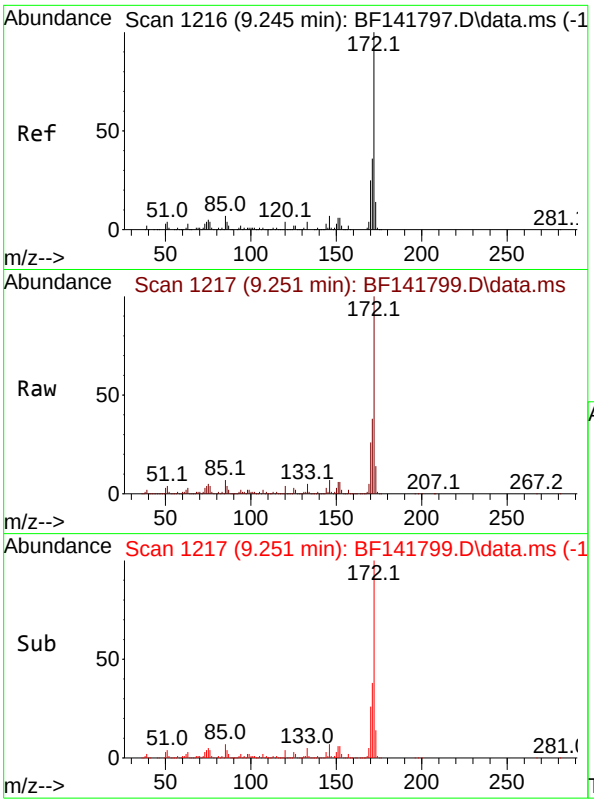


#44
2,4,5-Trichlorophenol
Concen: 61.725 ng
RT: 9.198 min Scan# 1208
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:196 Resp: 703662

Ion	Ratio	Lower	Upper
196	100		
198	100.1	79.7	119.5
97	54.1	44.2	66.2
132	30.1	24.3	36.5



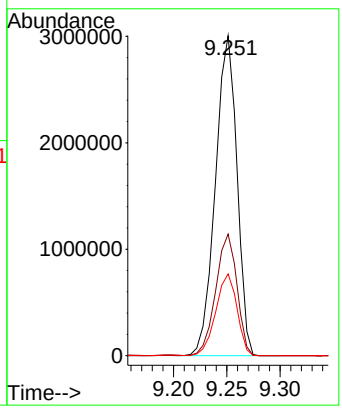


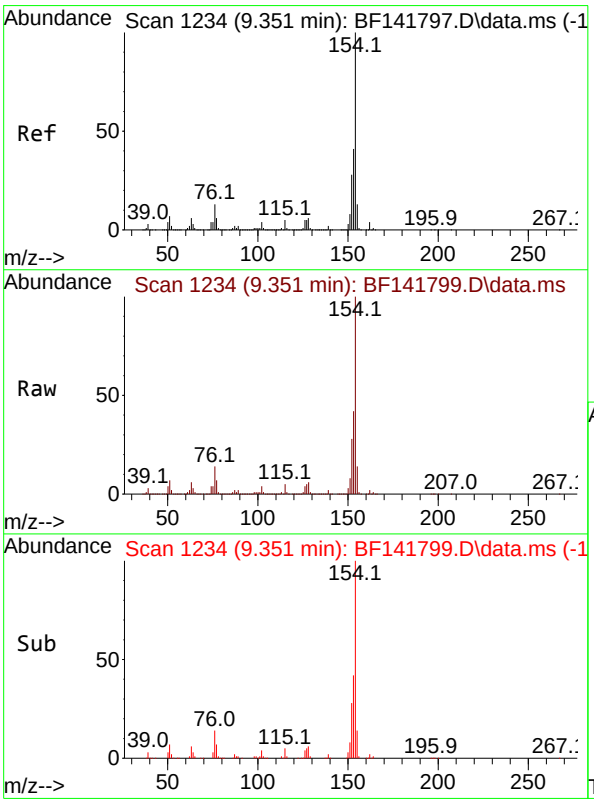
#45
2-Fluorobiphenyl
Concen: 109.742 ng
RT: 9.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:172 Resp: 4223426

Ion	Ratio	Lower	Upper
172	100		
171	38.0	29.2	43.8
170	25.5	19.7	29.5

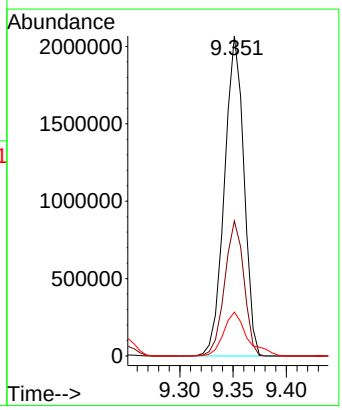


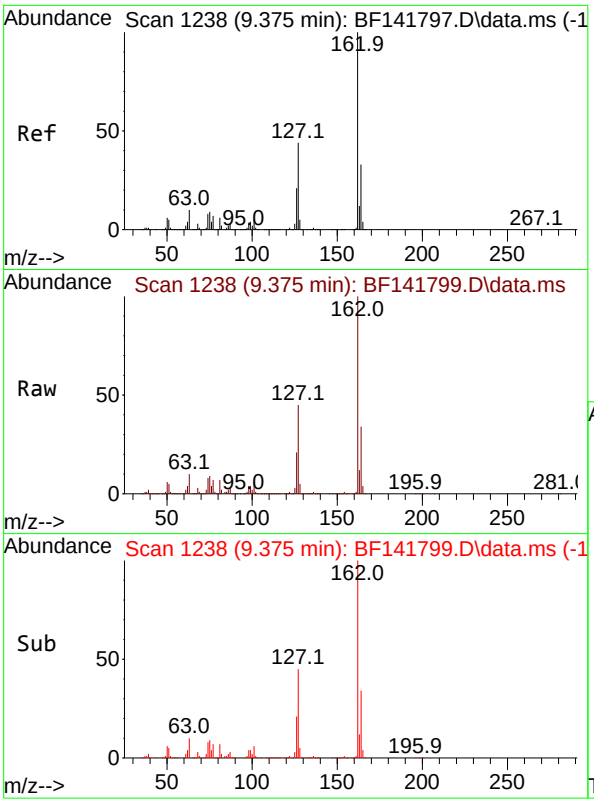


#46
1,1'-Biphenyl
Concen: 55.911 ng
RT: 9.351 min Scan# 1234
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:154 Resp: 2626139

Ion	Ratio	Lower	Upper
154	100		
153	42.2	21.4	61.4
76	13.7	0.0	33.4



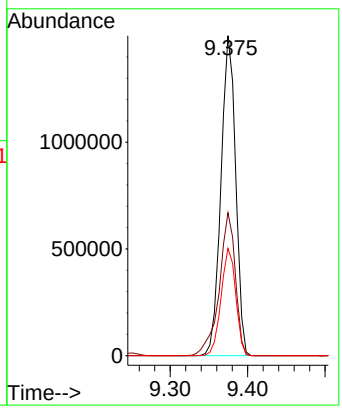


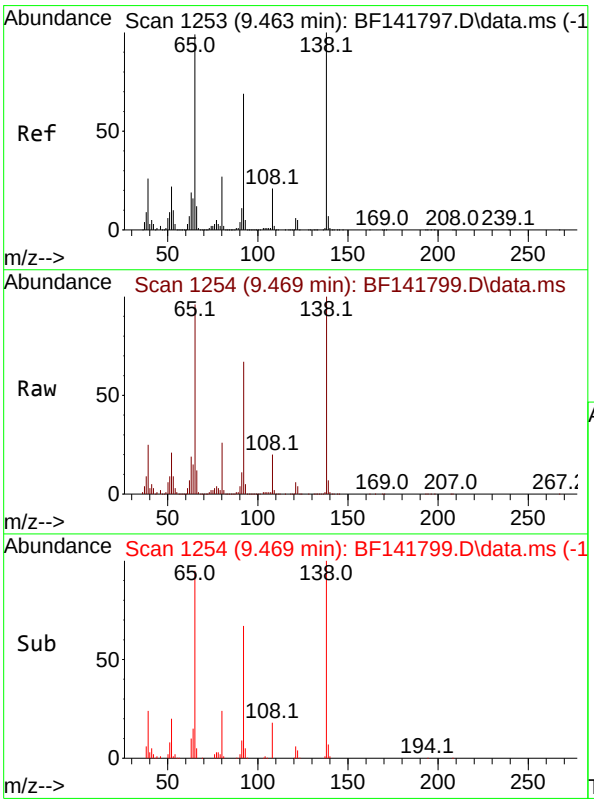
#47
2-Chloronaphthalene
Concen: 57.187 ng
RT: 9.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 1982513

Ion	Ratio	Lower	Upper
162	100		
127	44.6	35.0	52.6
164	33.5	26.6	40.0

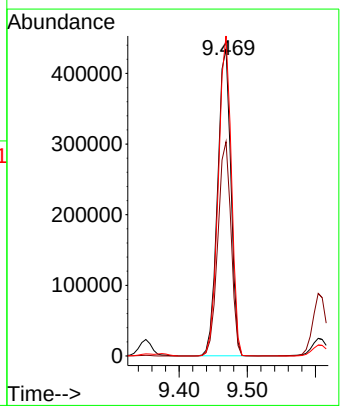


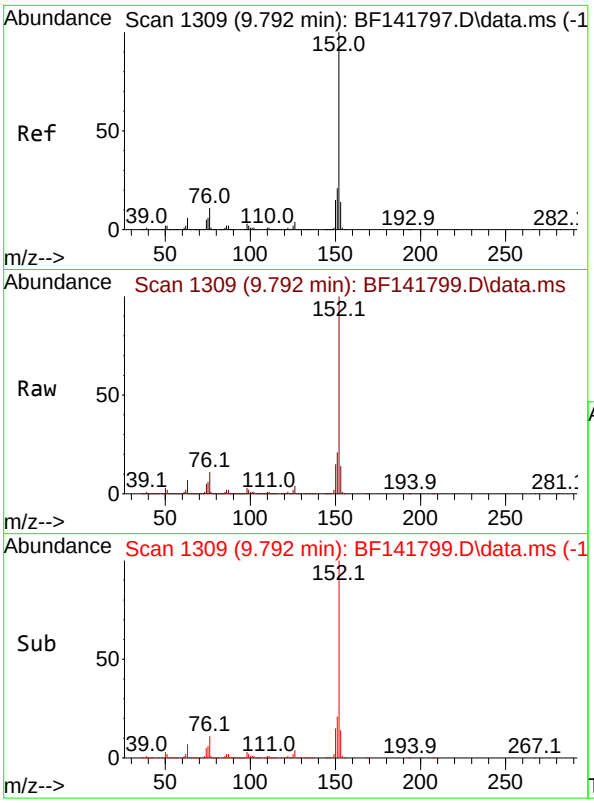


#48
2-Nitroaniline
Concen: 60.902 ng
RT: 9.469 min Scan# 1254
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 65 Resp: 590092

Ion	Ratio	Lower	Upper
65	100		
92	69.8	55.7	83.5
138	104.2	80.6	121.0



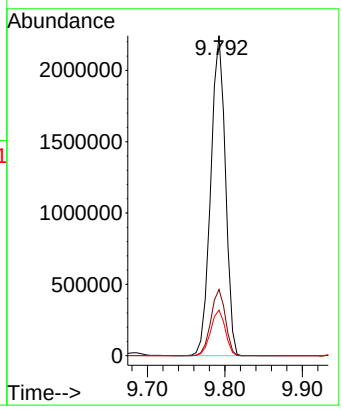


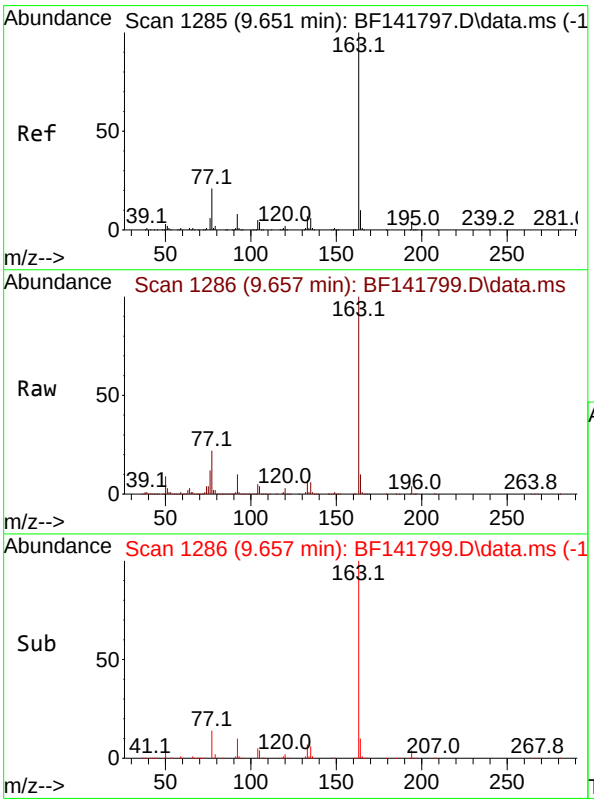
#49
Acenaphthylene
Concen: 56.845 ng
RT: 9.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 2954653

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	24.8
153	14.3	11.2	16.8

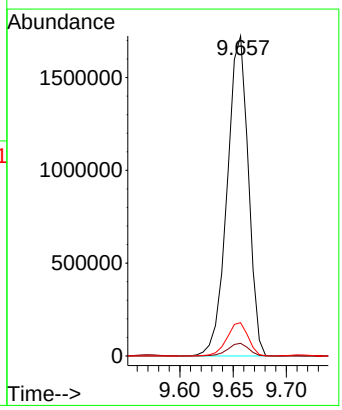


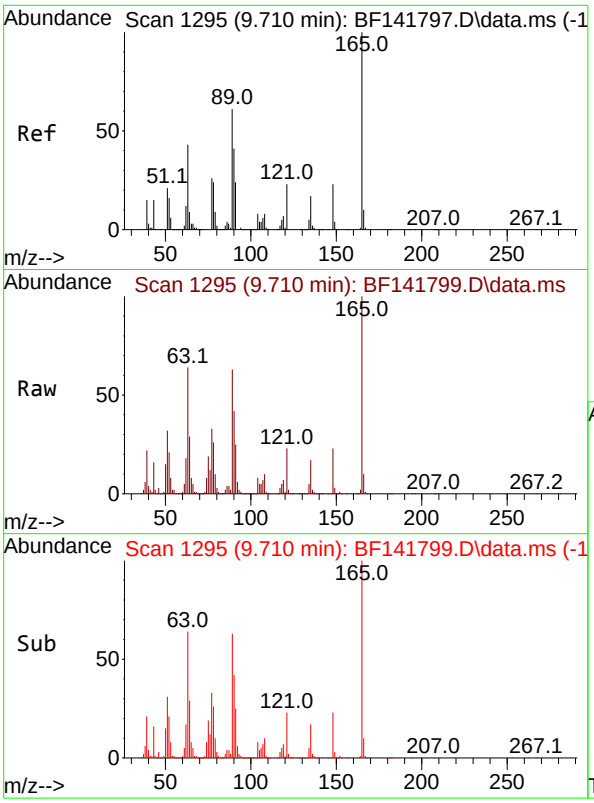


#50
Dimethylphthalate
Concen: 57.581 ng
RT: 9.657 min Scan# 1286
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:163 Resp: 2379542

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.4	8.4	12.6



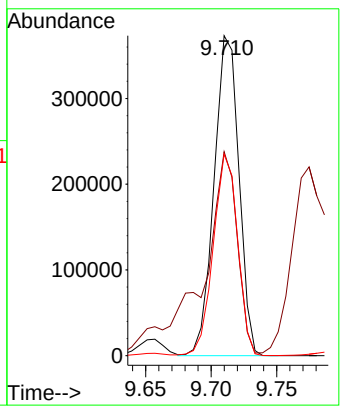


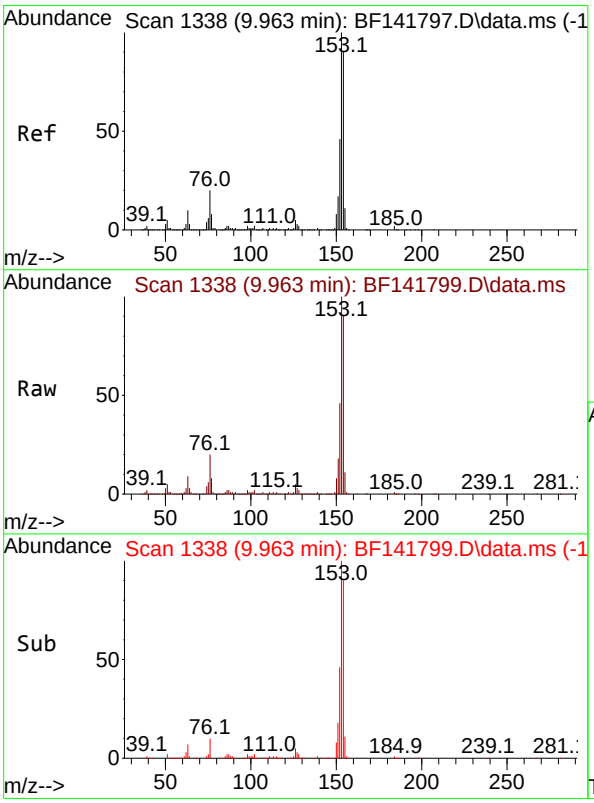
#51
2,6-Dinitrotoluene
Concen: 61.325 ng
RT: 9.710 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 491402

Ion	Ratio	Lower	Upper
165	100		
63	63.8	49.5	74.3
89	63.0	49.0	73.4

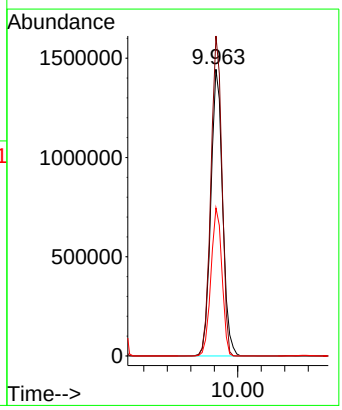


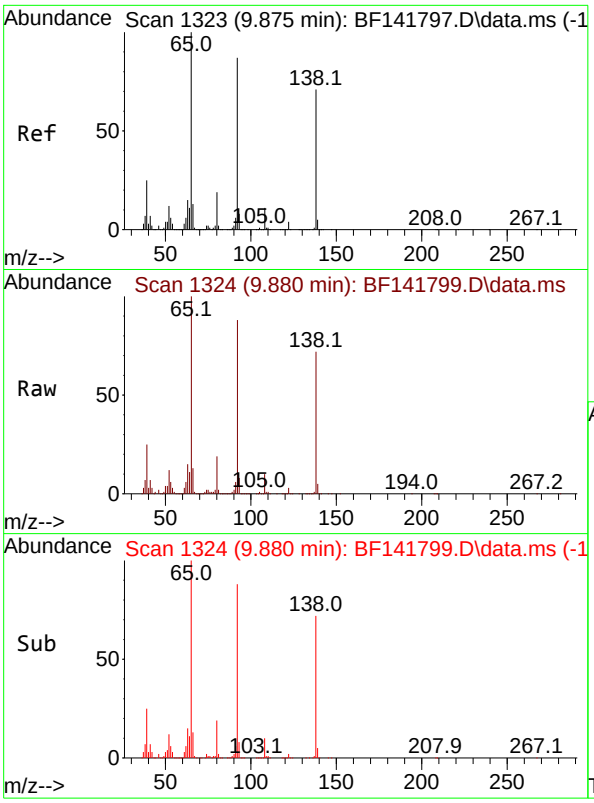


#52
Acenaphthene
Concen: 57.211 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:154 Resp: 2006502

Ion	Ratio	Lower	Upper
154	100		
153	111.6	88.7	133.1
152	51.6	40.9	61.3



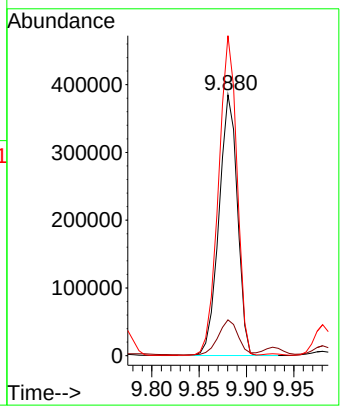


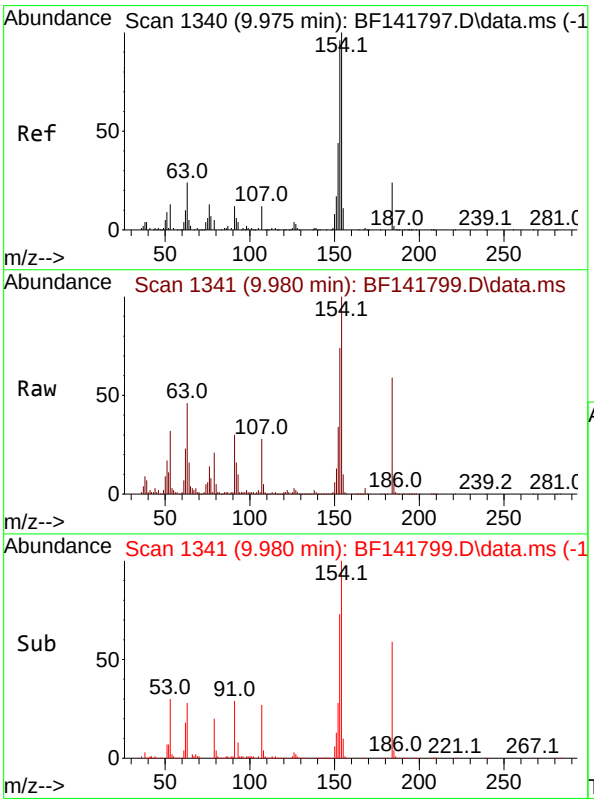
#53
3-Nitroaniline
Concen: 61.078 ng
RT: 9.880 min Scan# 1
Delta R.T. 0.005 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:138 Resp: 521575

Ion	Ratio	Lower	Upper
138	100		
108	13.7	12.7	19.1
92	122.7	97.9	146.9

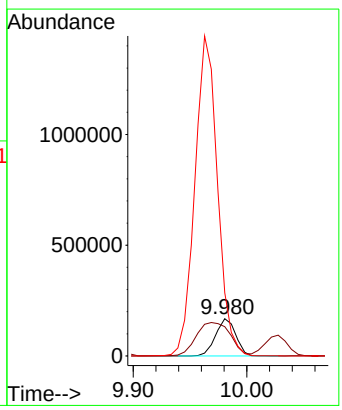


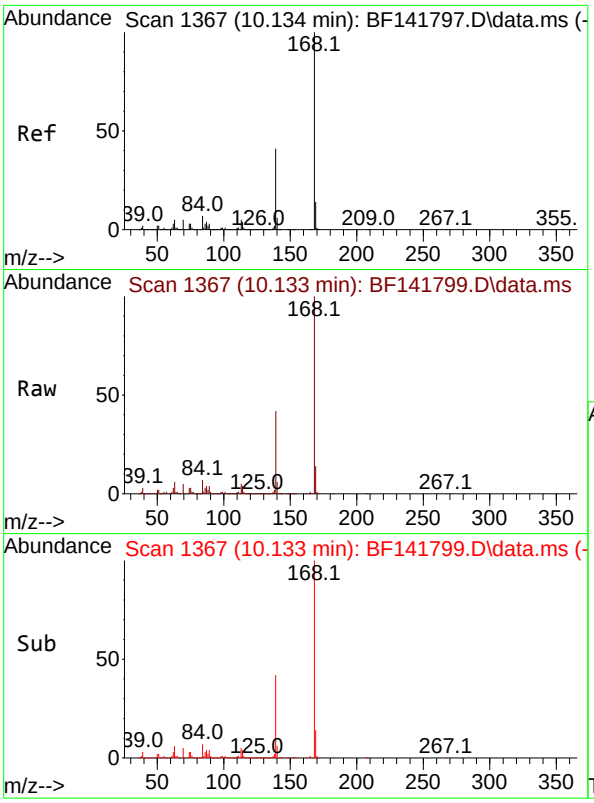


#54
2,4-Dinitrophenol
Concen: 62.312 ng
RT: 9.980 min Scan# 1341
Delta R.T. 0.005 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:184 Resp: 207307

Ion	Ratio	Lower	Upper
184	100		
63	78.8	79.0	118.6#
154	169.7	335.8	503.8#



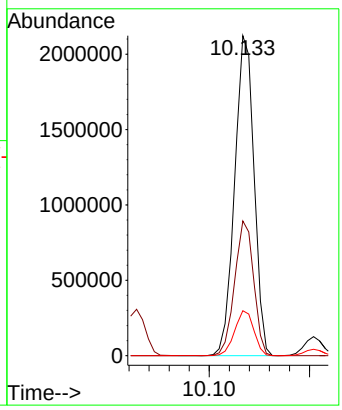


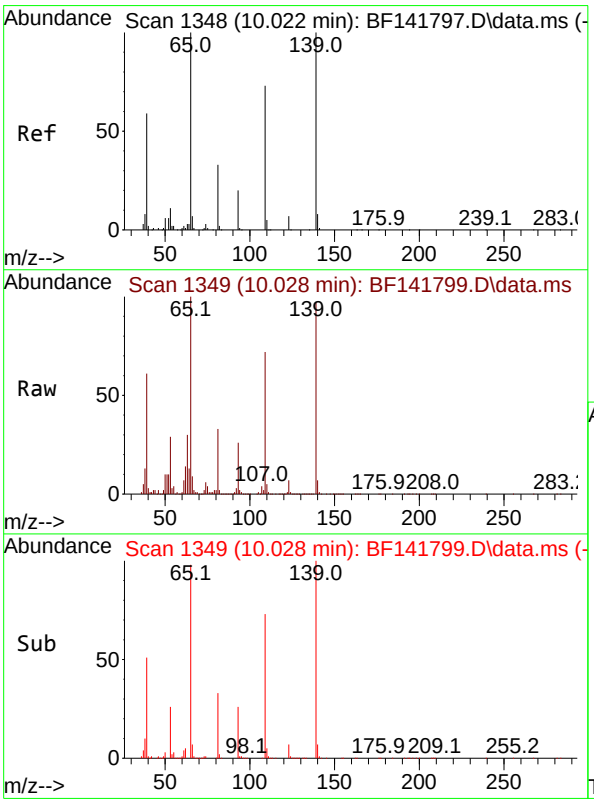
#55
Dibenzofuran
Concen: 55.911 ng
RT: 10.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:168 Resp: 2854091

Ion	Ratio	Lower	Upper
168	100		
139	42.1	32.9	49.3
169	14.1	11.1	16.7

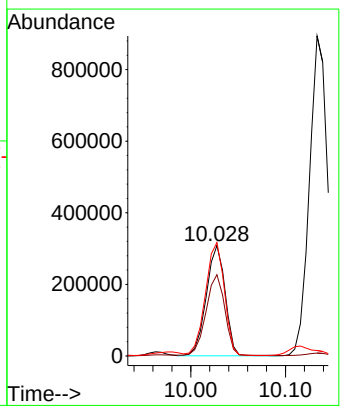


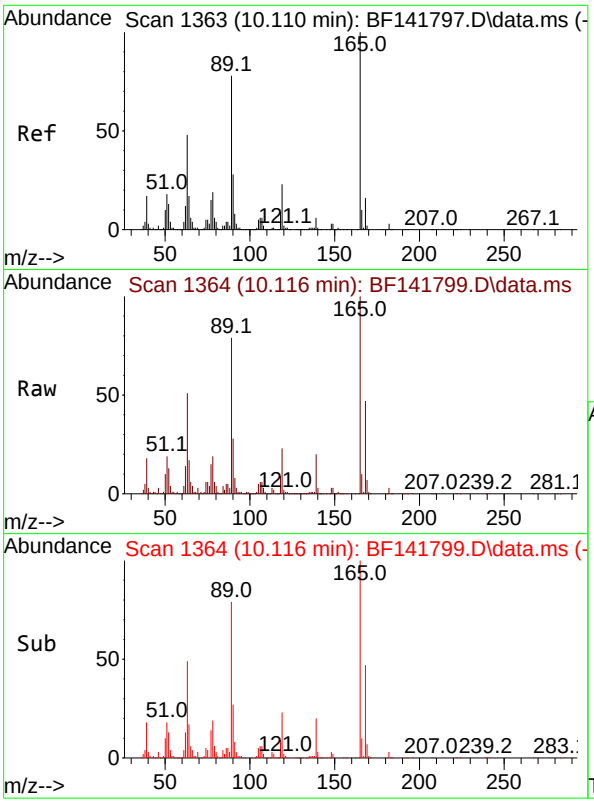


#56
4-Nitrophenol
Concen: 69.564 ng
RT: 10.028 min Scan# 1349
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:139 Resp: 424581

Ion	Ratio	Lower	Upper
139	100		
109	73.6	53.4	93.4
65	102.7	82.1	122.1



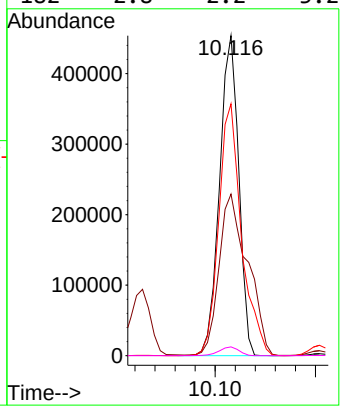


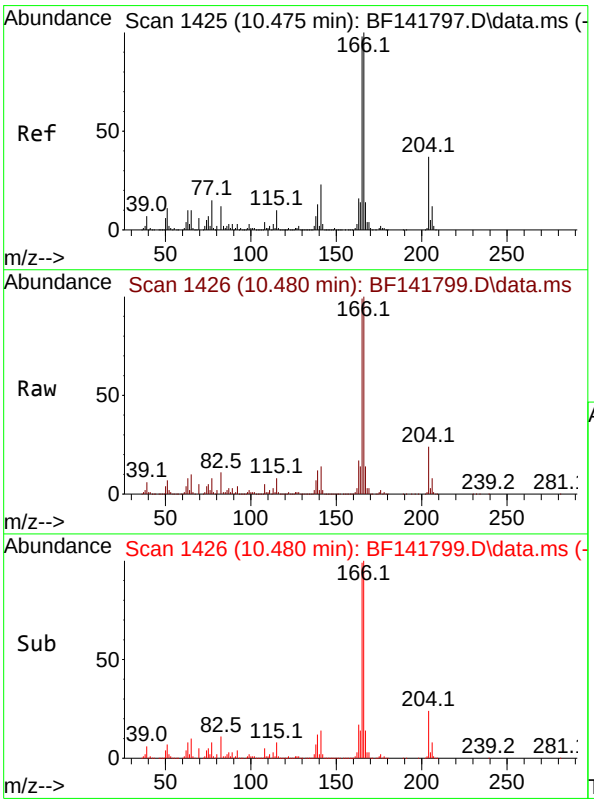
#57
2,4-Dinitrotoluene
Concen: 61.246 ng
RT: 10.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 601539

Ion	Ratio	Lower	Upper
165	100		
63	50.5	38.8	58.2
89	78.7	62.6	94.0
182	2.8	2.2	3.2

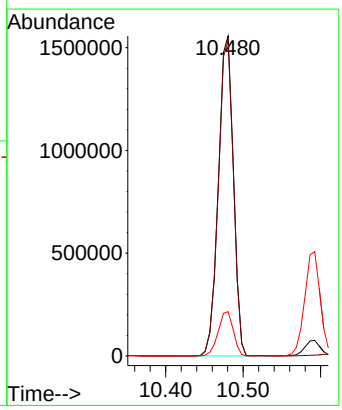


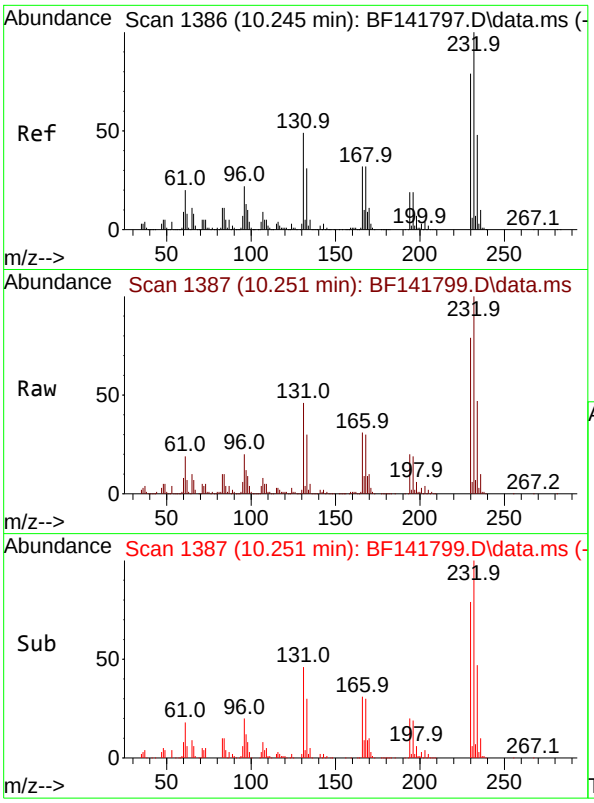


#58
Fluorene
Concen: 54.917 ng
RT: 10.480 min Scan# 1426
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:166 Resp: 2099887

Ion	Ratio	Lower	Upper
166	100		
165	98.7	78.6	117.8
167	13.9	11.0	16.4



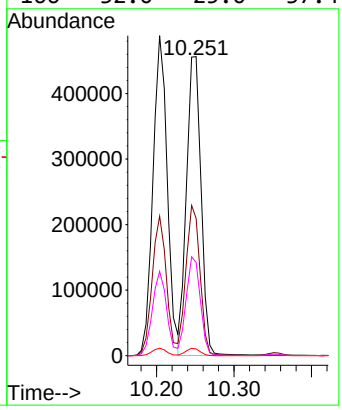


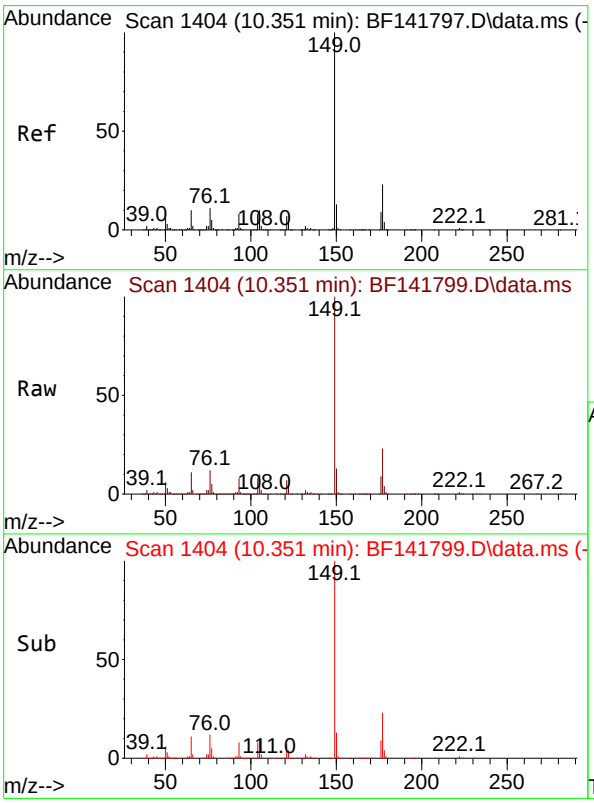
#59
2,3,4,6-Tetrachlorophenol
Concen: 60.159 ng
RT: 10.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:232 Resp: 596455

Ion	Ratio	Lower	Upper
232	100		
131	47.9	37.8	56.8
130	2.4	2.0	3.0
166	32.0	25.0	37.4

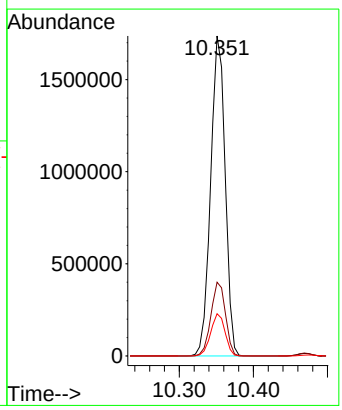


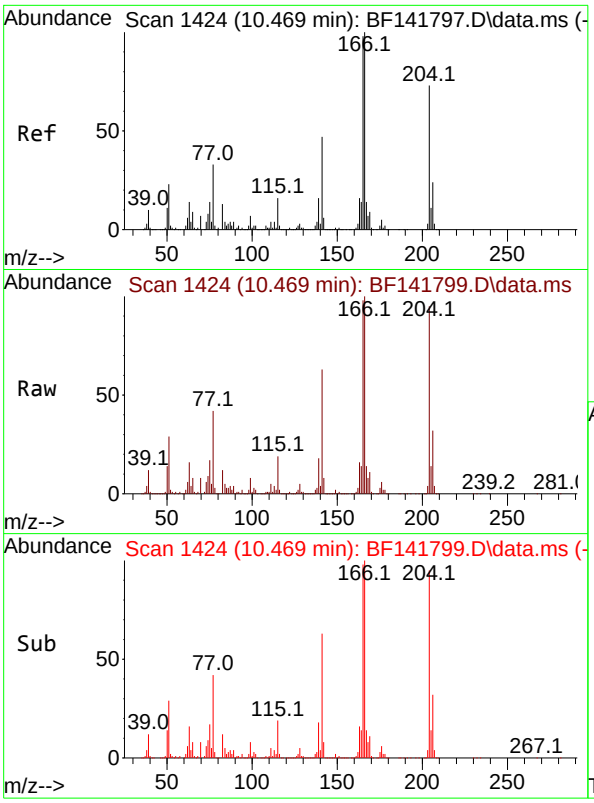


#60
Diethylphthalate
Concen: 56.972 ng
RT: 10.351 min Scan# 1404
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:149 Resp: 2360216

Ion	Ratio	Lower	Upper
149	100		
177	23.1	18.3	27.5
150	13.2	10.3	15.5



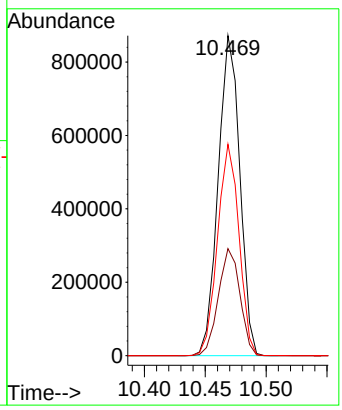


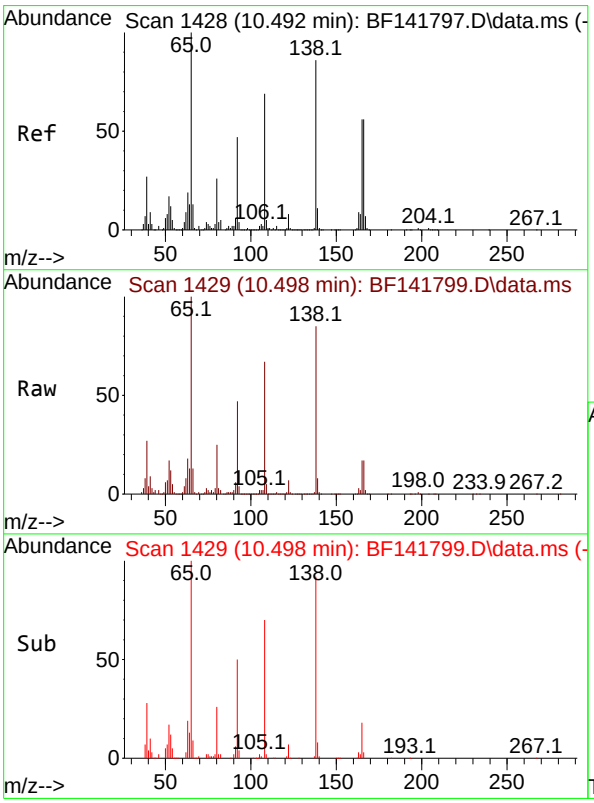
#61
4-Chlorophenyl-phenylether
Concen: 56.324 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:204 Resp: 1079059

Ion	Ratio	Lower	Upper
204	100		
206	33.4	26.2	39.4
141	66.0	51.7	77.5

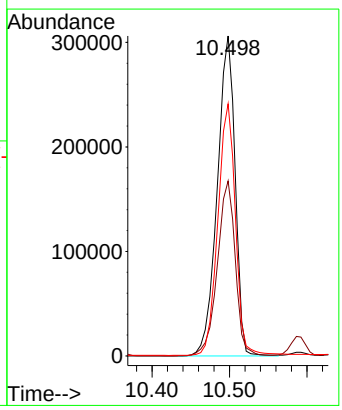


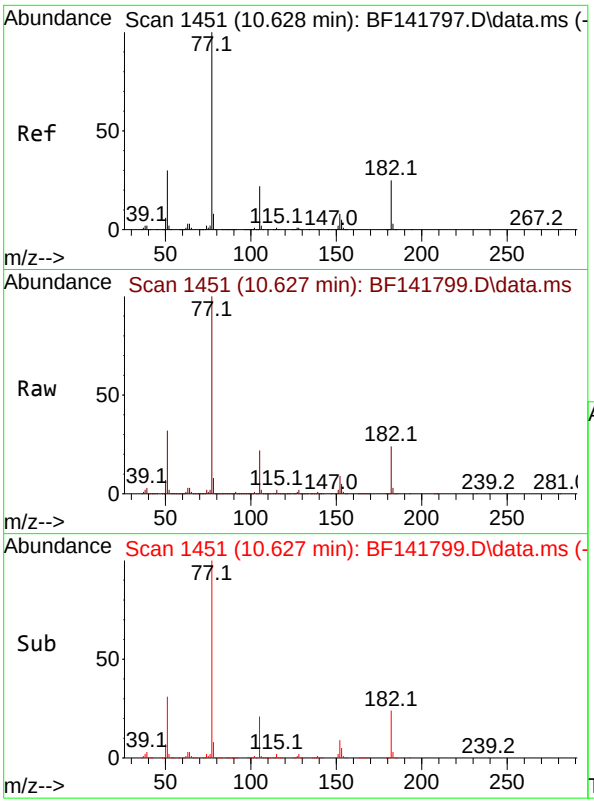


#62
4-Nitroaniline
Concen: 69.546 ng
RT: 10.498 min Scan# 1429
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:138 Resp: 490806

Ion	Ratio	Lower	Upper
138	100		
92	54.7	34.9	74.9
108	78.8	59.6	99.6



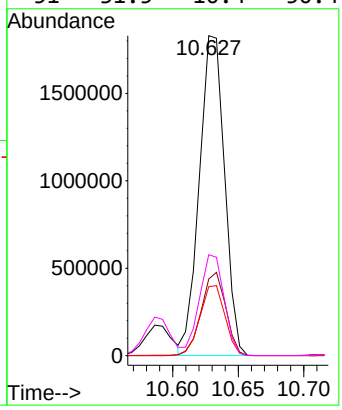


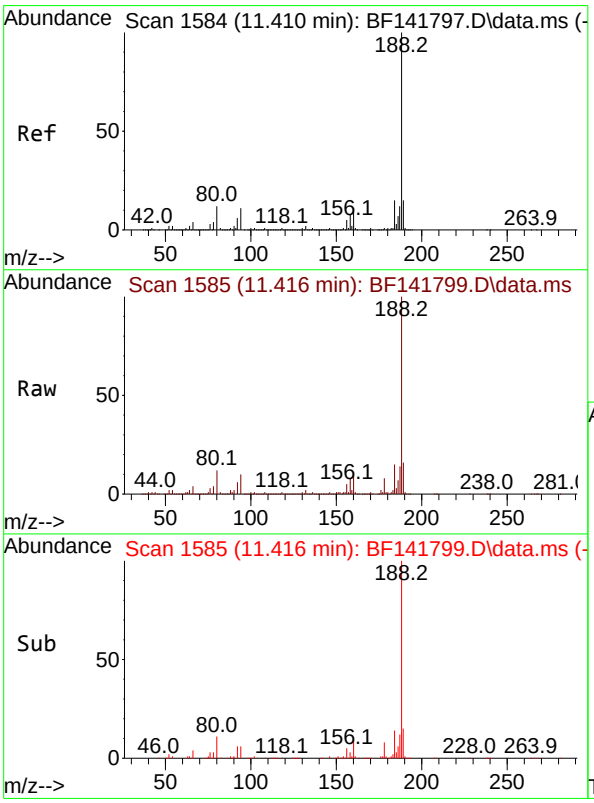
#63
Azobenzene
Concen: 56.242 ng
RT: 10.627 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 2453259

Ion	Ratio	Lower	Upper
77	100		
182	23.9	4.2	44.2
105	21.5	1.5	41.5
51	31.5	10.4	50.4

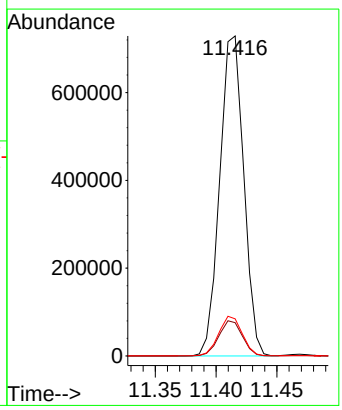


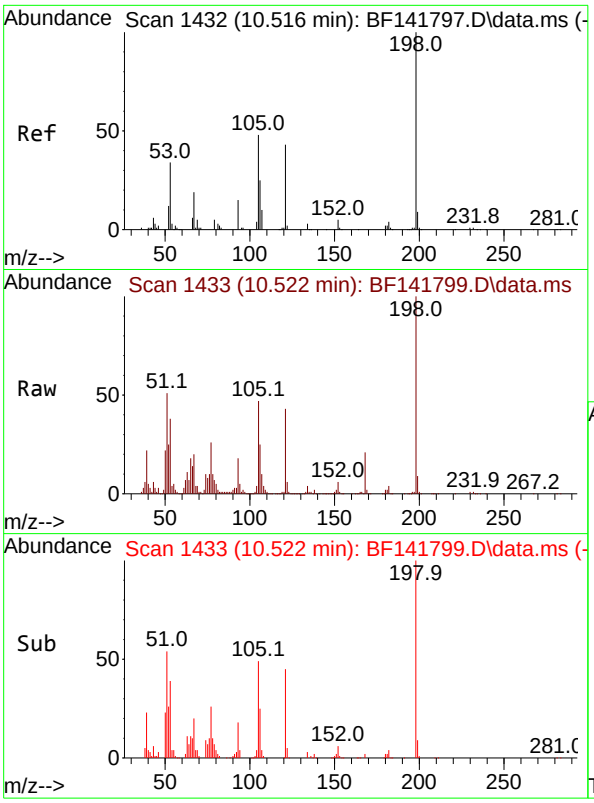


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1585
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:188 Resp: 999271

Ion	Ratio	Lower	Upper
188	100		
94	10.4	8.9	13.3
80	11.6	9.7	14.5



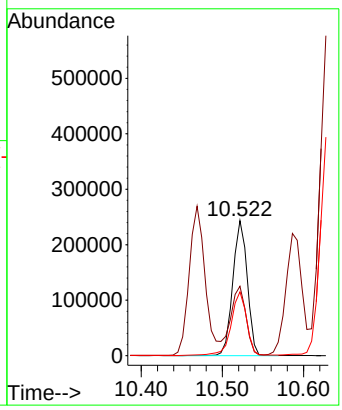


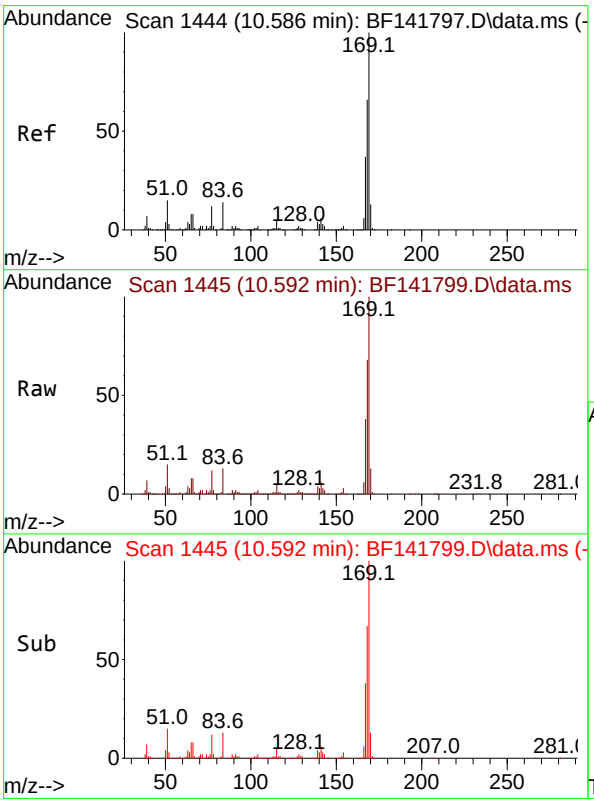
#65
4,6-Dinitro-2-methylphenol
Concen: 61.255 ng
RT: 10.522 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:198 Resp: 300954

Ion	Ratio	Lower	Upper
198	100		
51	51.4	32.1	72.1
105	47.2	28.5	68.5

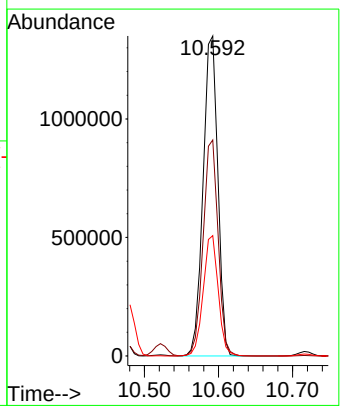


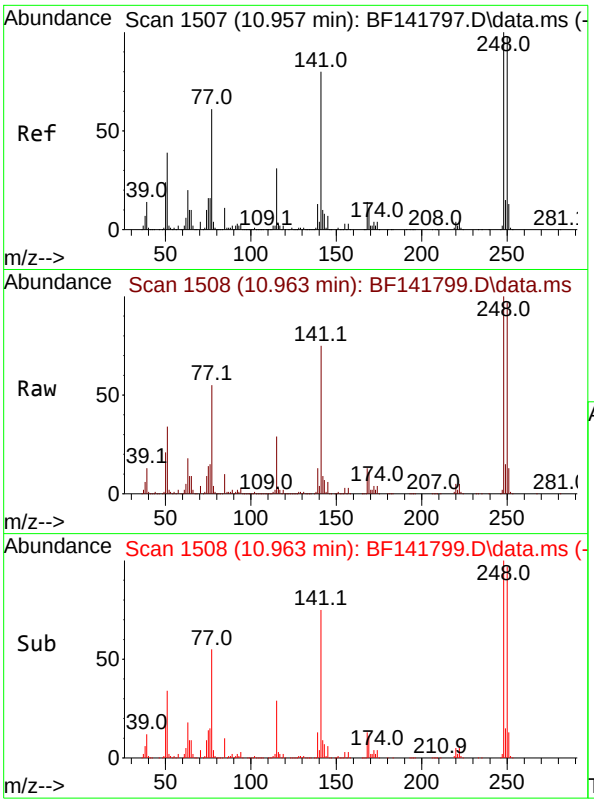


#66
n-Nitrosodiphenylamine
Concen: 56.913 ng
RT: 10.592 min Scan# 1445
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:169 Resp: 1867463

Ion	Ratio	Lower	Upper
169	100		
168	67.5	53.0	79.6
167	37.6	29.3	43.9



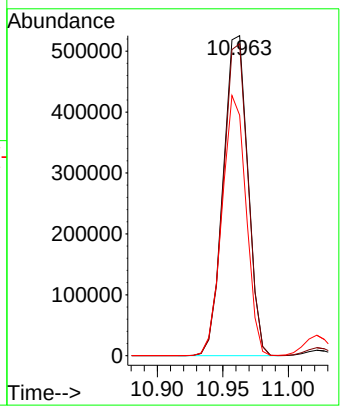


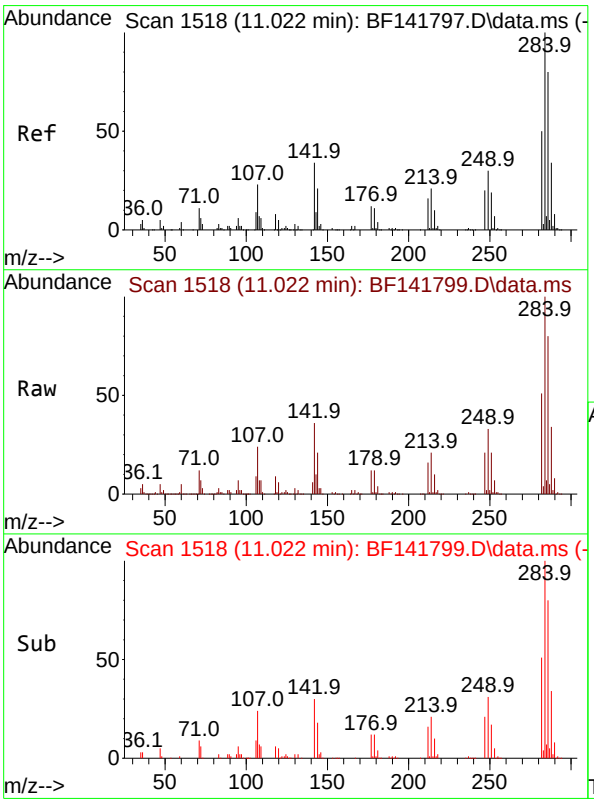
#67
4-Bromophenyl-phenylether
Concen: 59.012 ng
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:248 Resp: 688777

Ion	Ratio	Lower	Upper
248	100		
250	97.5	78.1	117.1
141	75.2	64.3	96.5

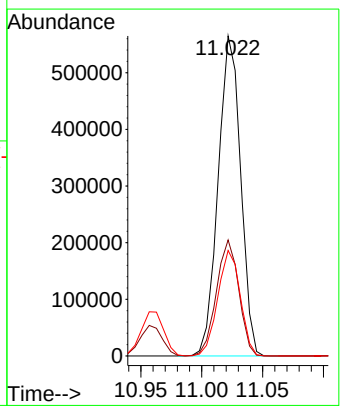


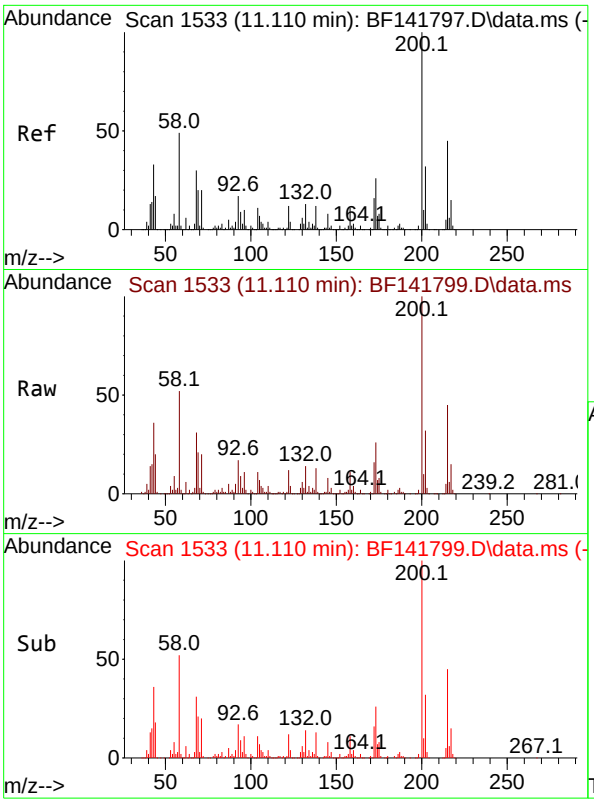


#68
Hexachlorobenzene
Concen: 58.945 ng
RT: 11.022 min Scan# 1518
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:284 Resp: 726507

Ion	Ratio	Lower	Upper
284	100		
142	36.3	28.2	42.2
249	33.0	25.5	38.3



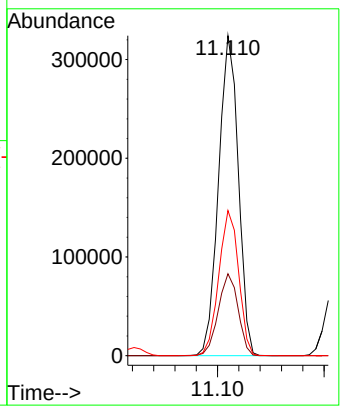


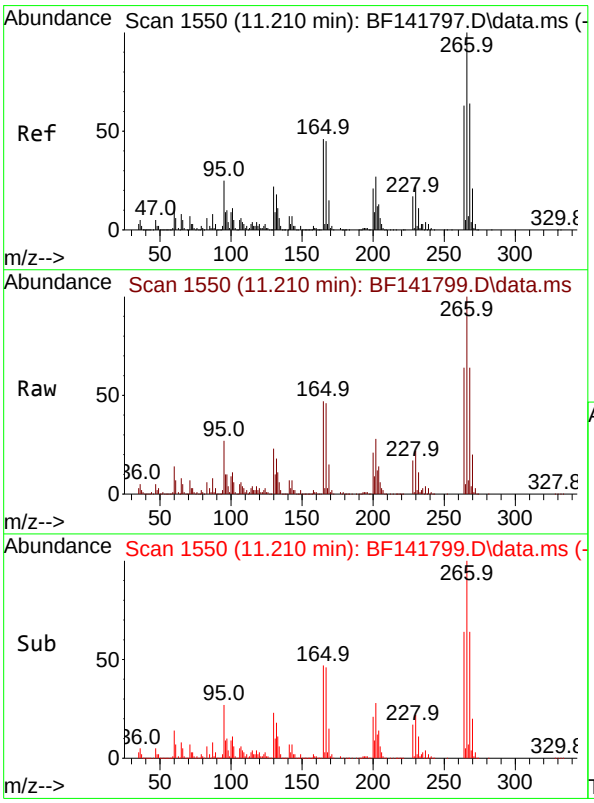
#69
Atrazine
Concen: 46.200 ng
RT: 11.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:200 Resp: 416878

Ion	Ratio	Lower	Upper
200	100		
173	25.6	5.6	45.6
215	45.3	25.3	65.3

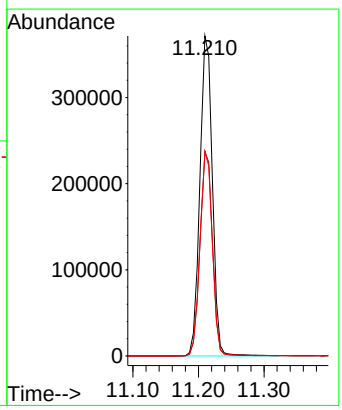


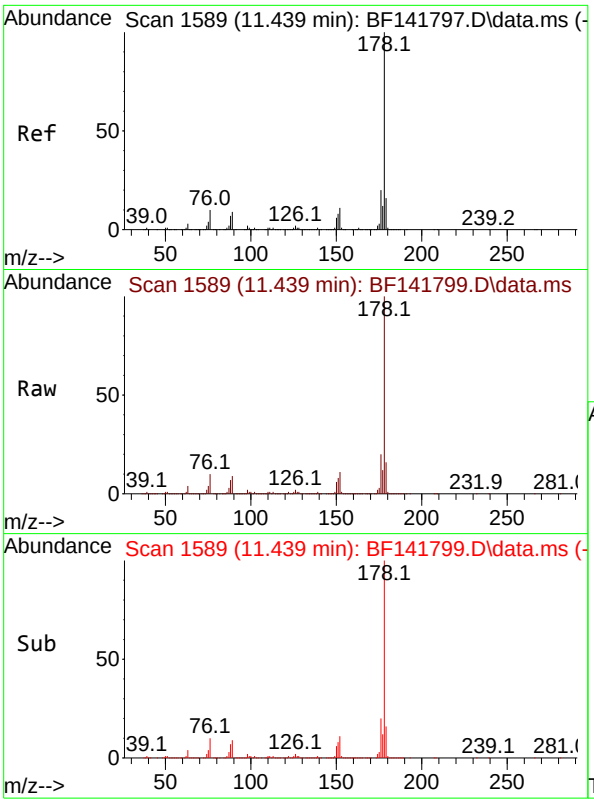


#70
Pentachlorophenol
Concen: 62.968 ng
RT: 11.210 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:266 Resp: 492228

Ion	Ratio	Lower	Upper
266	100		
268	63.9	50.9	76.3
264	63.8	50.2	75.4



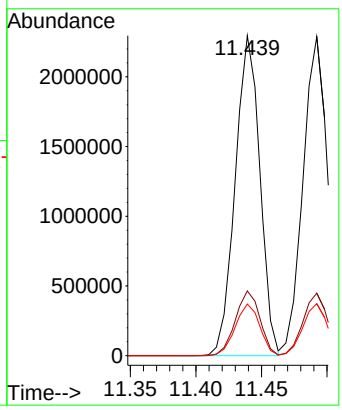


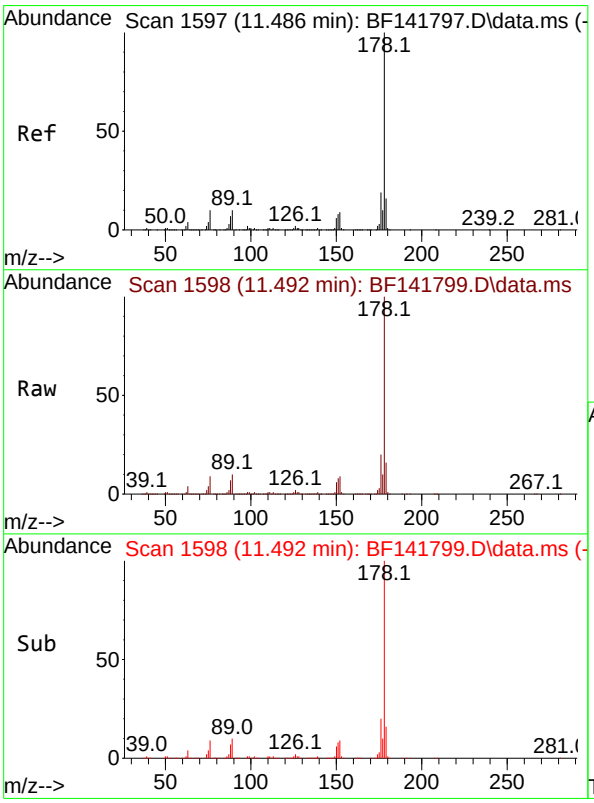
#71
Phenanthrene
Concen: 56.165 ng
RT: 11.439 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:178 Resp: 3002094

Ion	Ratio	Lower	Upper
178	100		
176	20.2	16.0	24.0
179	16.2	12.6	19.0

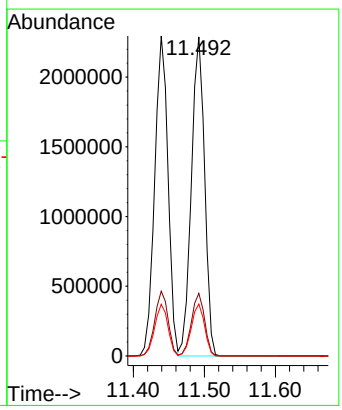


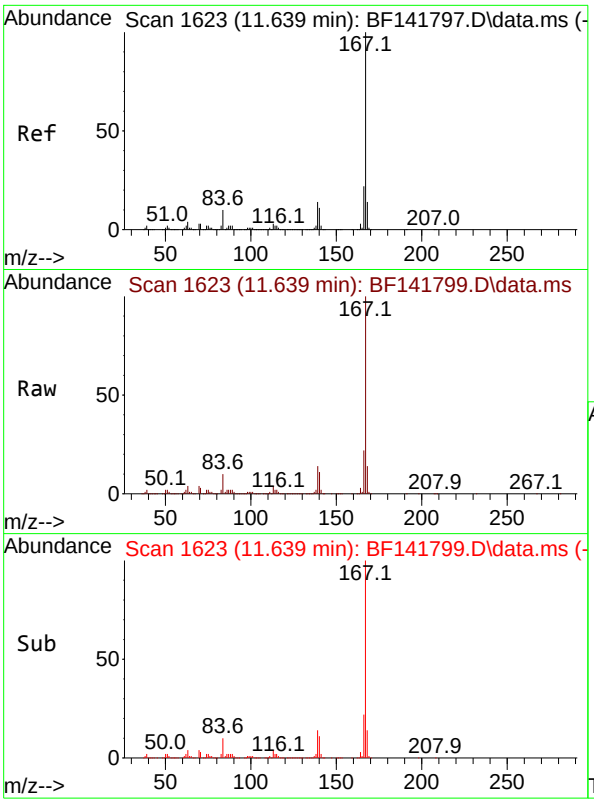


#72
Anthracene
Concen: 55.373 ng
RT: 11.492 min Scan# 1598
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:178 Resp: 2966353

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.0
179	16.3	12.8	19.2



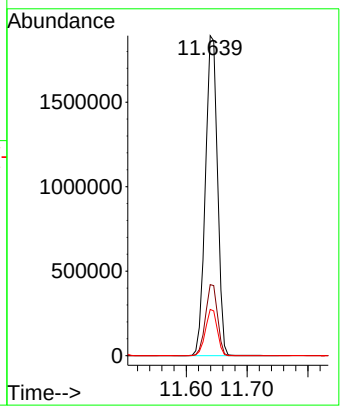


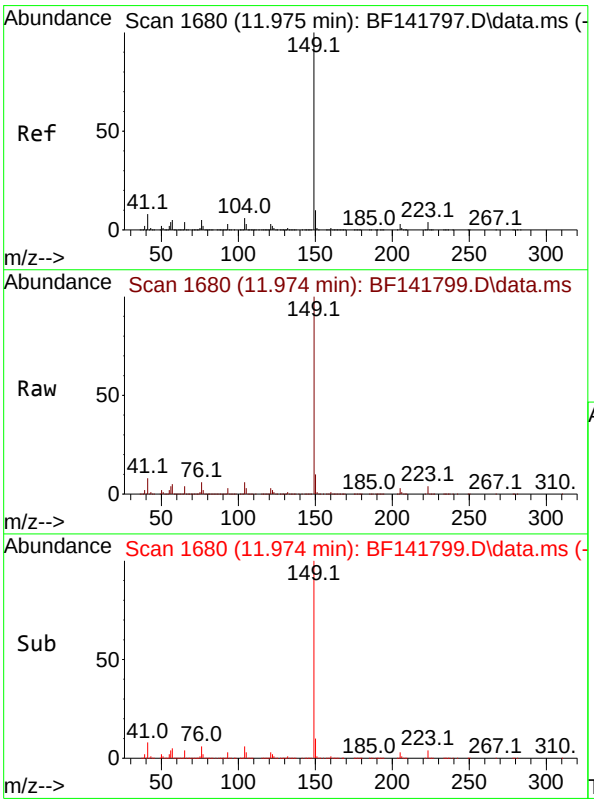
#73
Carbazole
Concen: 55.217 ng
RT: 11.639 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:167 Resp: 2612132

Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.5	26.3
139	14.5	11.3	16.9

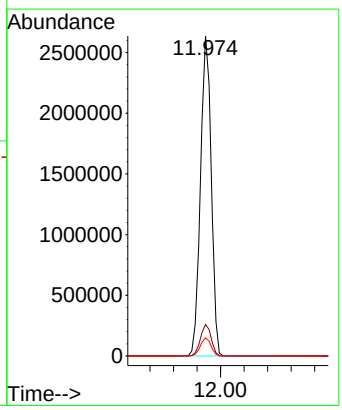


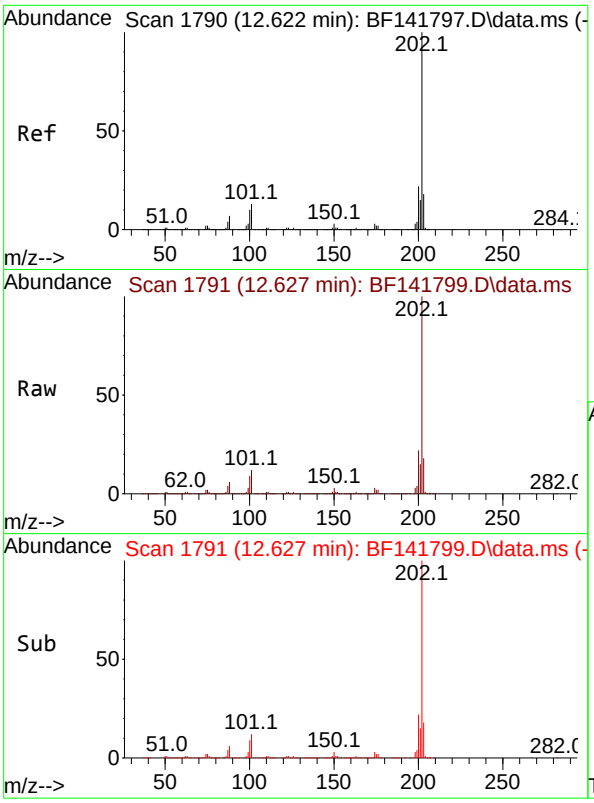


#74
Di-n-butylphthalate
Concen: 55.675 ng
RT: 11.974 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:149 Resp: 3338525

Ion	Ratio	Lower	Upper
149	100		
150	9.9	7.7	11.5
104	5.7	4.4	6.6



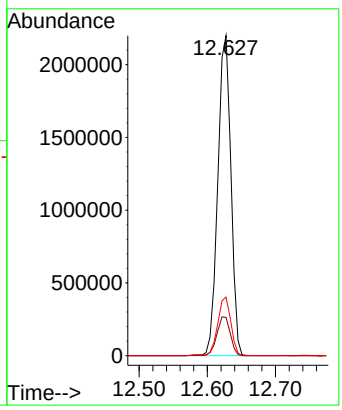


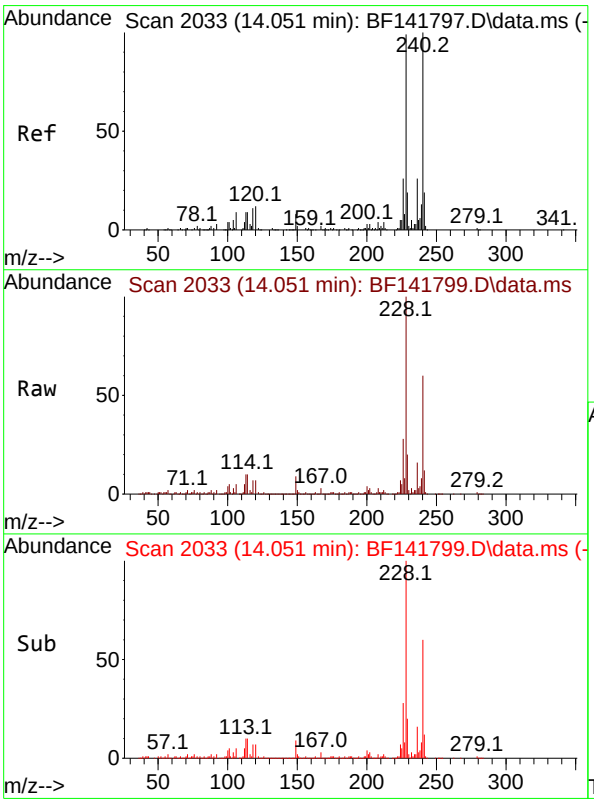
#75
Fluoranthene
Concen: 53.680 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:202 Resp: 2940034

Ion	Ratio	Lower	Upper
202	100		
101	12.0	0.0	32.8
203	18.3	0.0	38.0

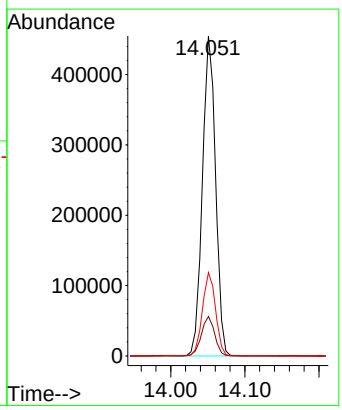


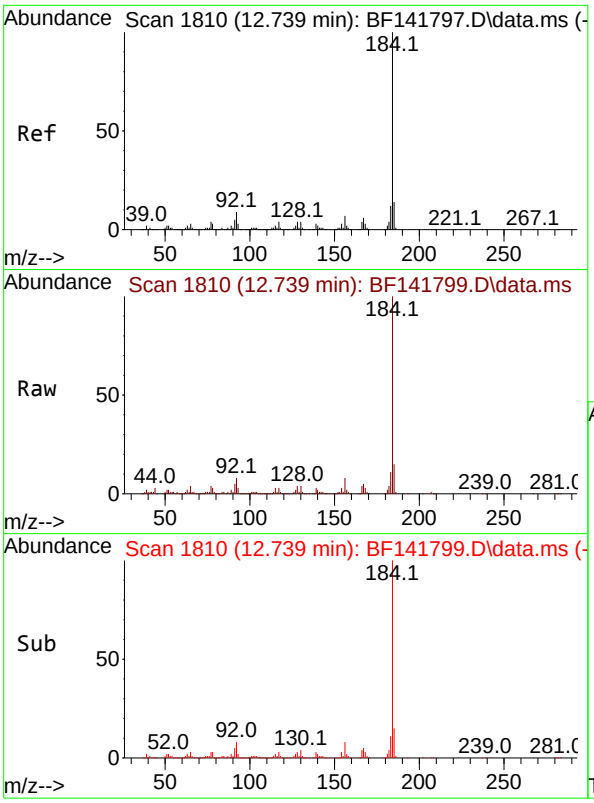


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:240 Resp: 562939

Ion	Ratio	Lower	Upper
240	100		
120	12.4	9.7	14.5
236	26.0	21.0	31.4



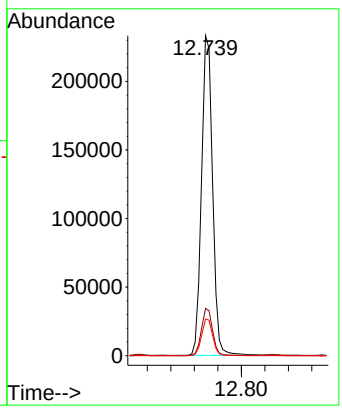


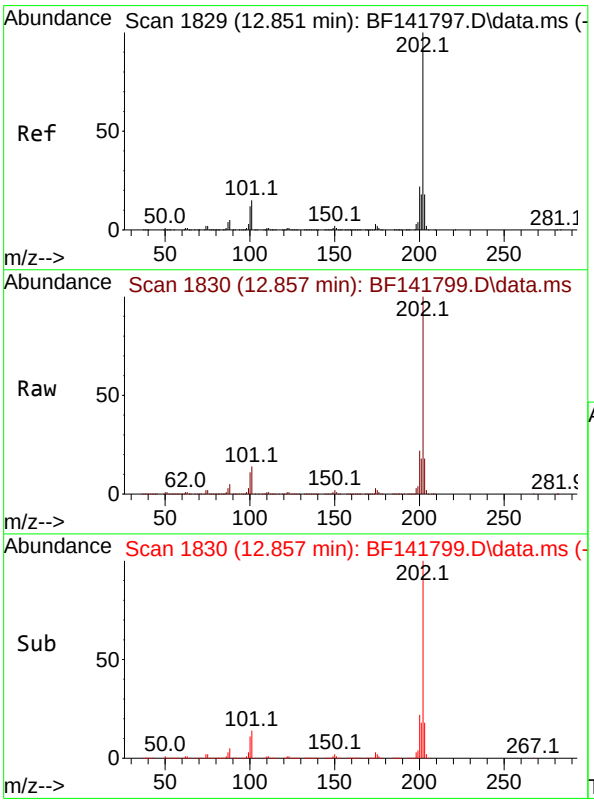
#77
Benzidine
Concen: 43.207 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:184 Resp: 306135

Ion	Ratio	Lower	Upper
184	100		
185	14.8	11.6	17.4
183	11.4	9.4	14.0

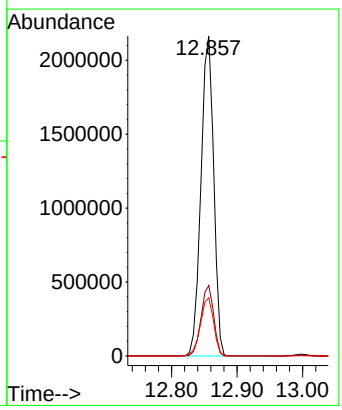


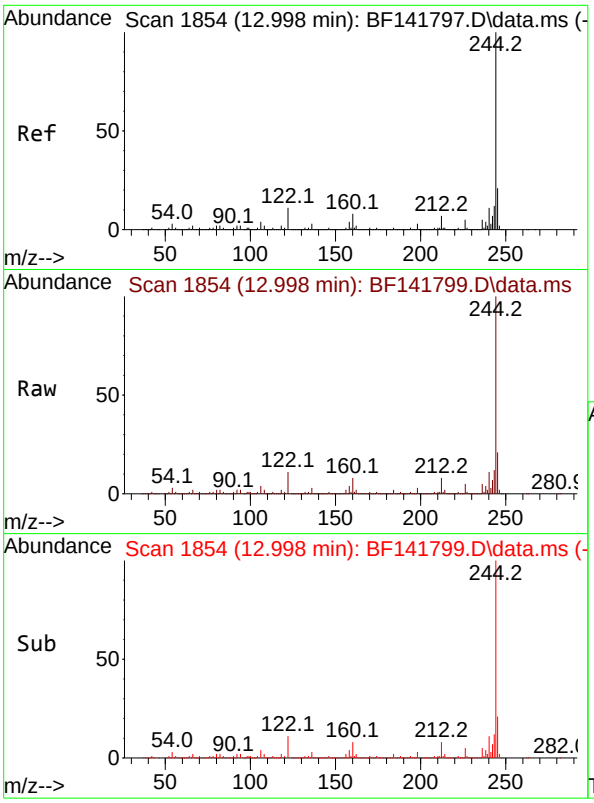


#78
Pyrene
Concen: 60.064 ng
RT: 12.857 min Scan# 1830
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:202 Resp: 2927964

Ion	Ratio	Lower	Upper
202	100		
200	22.0	17.4	26.0
203	18.2	14.6	22.0



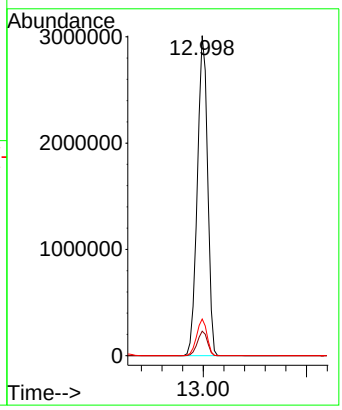


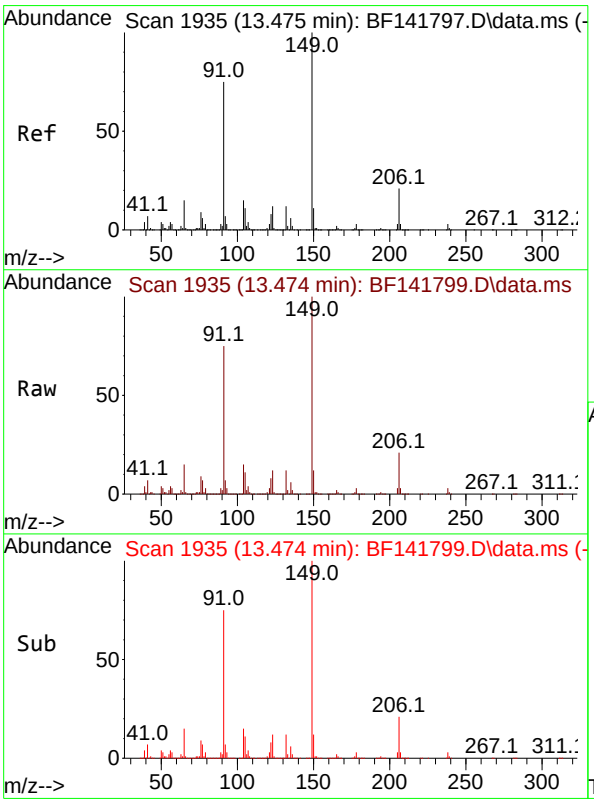
#79
Terphenyl-d14
Concen: 119.098 ng
RT: 12.998 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:244 Resp: 4143891

Ion	Ratio	Lower	Upper
244	100		
212	7.7	6.0	9.0
122	11.5	9.0	13.6

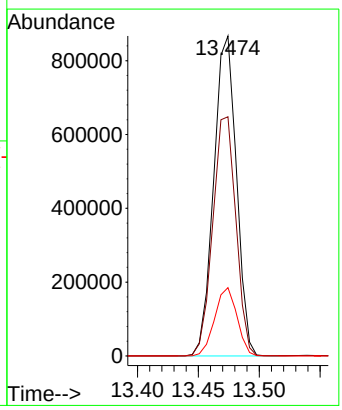


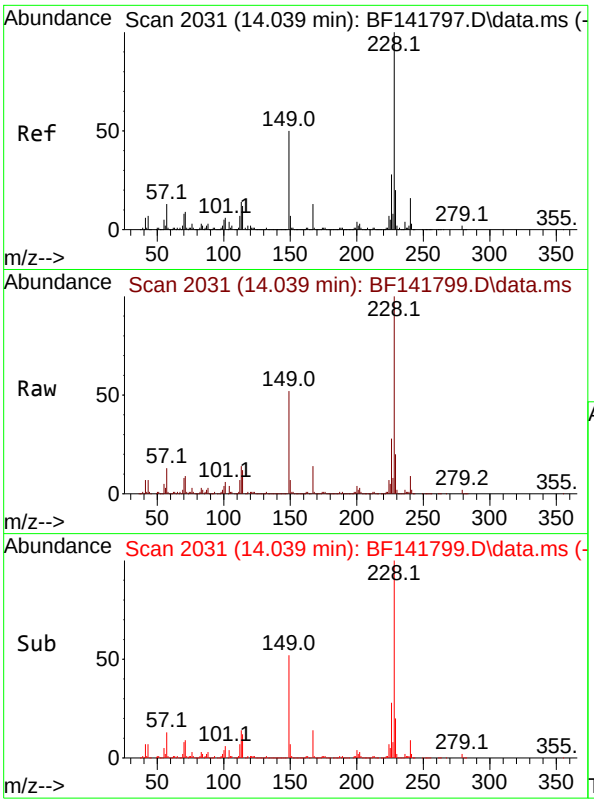


#80
Butylbenzylphthalate
Concen: 63.605 ng
RT: 13.474 min Scan# 1935
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:149 Resp: 1126511

Ion	Ratio	Lower	Upper
149	100		
91	74.8	60.1	90.1
206	21.3	16.8	25.2



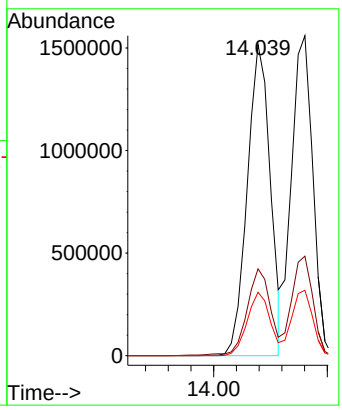


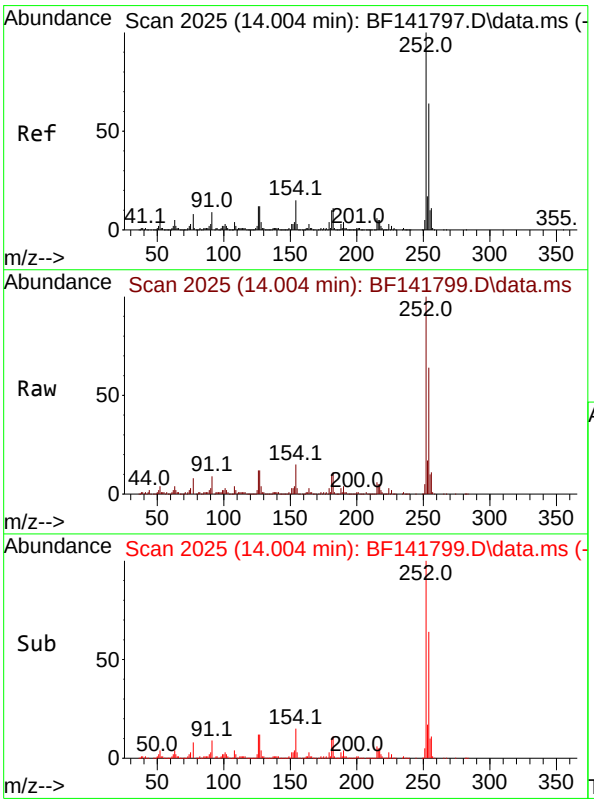
#81
Benzo(a)anthracene
Concen: 57.309 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 2130928

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.1	33.1
229	20.4	16.1	24.1

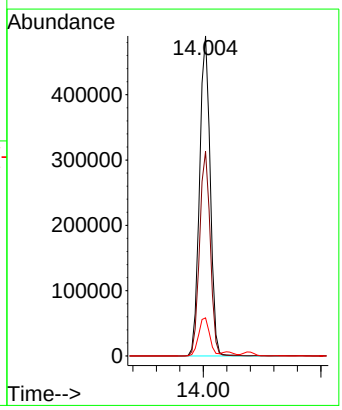


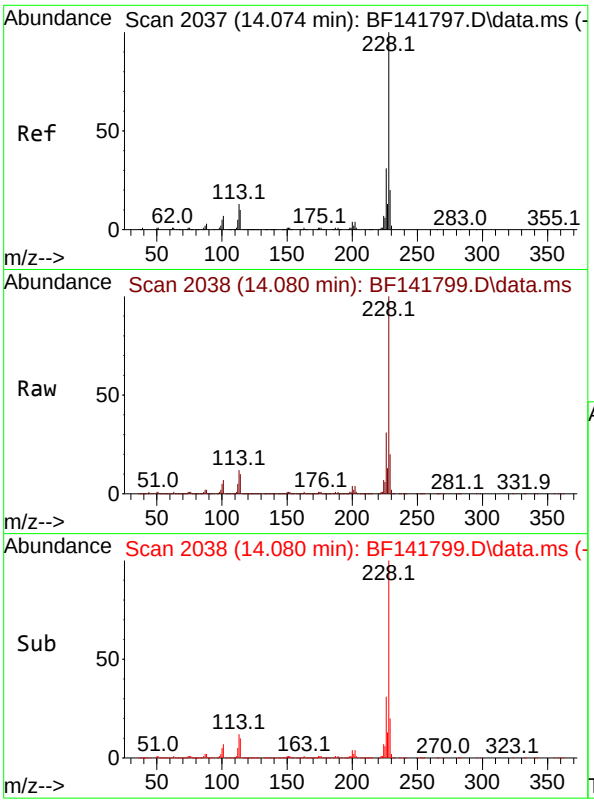


#82
3,3'-Dichlorobenzidine
Concen: 57.639 ng
RT: 14.004 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:252 Resp: 614898

Ion	Ratio	Lower	Upper
252	100		
254	63.9	51.4	77.0
126	11.9	9.8	14.6



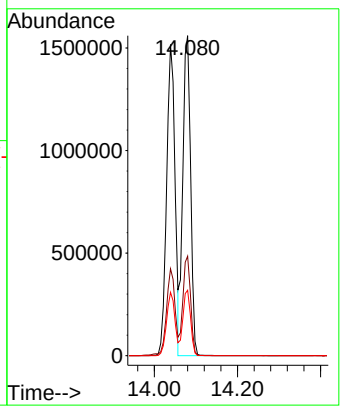


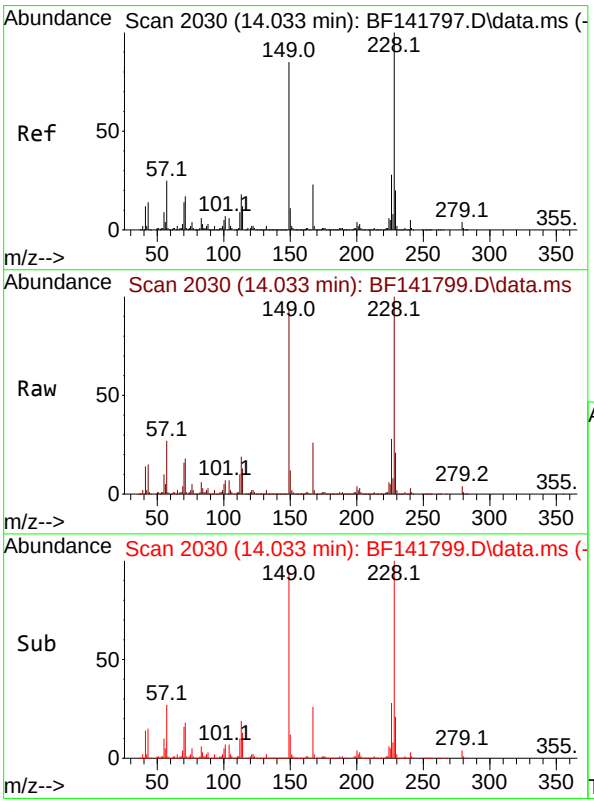
#83
Chrysene
Concen: 59.545 ng
RT: 14.080 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 2040957

Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.6	37.0
229	20.4	16.1	24.1

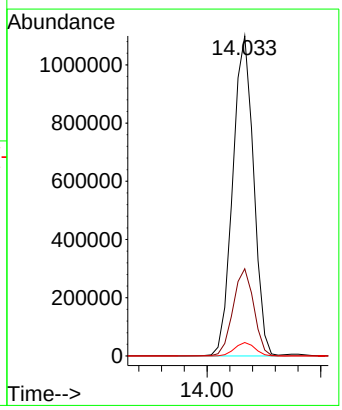


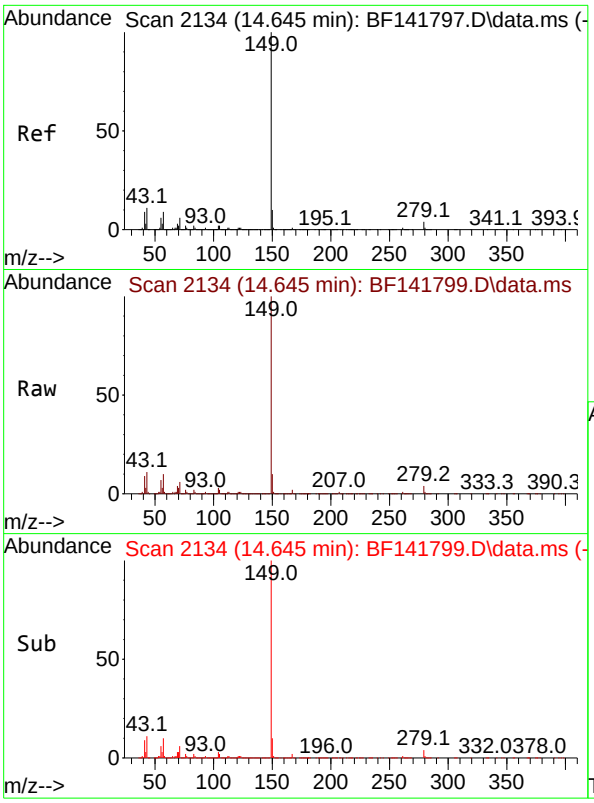


#84
Bis(2-ethylhexyl)phthalate
Concen: 63.421 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:149 Resp: 1398602

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.2	31.8
279	4.2	3.3	4.9



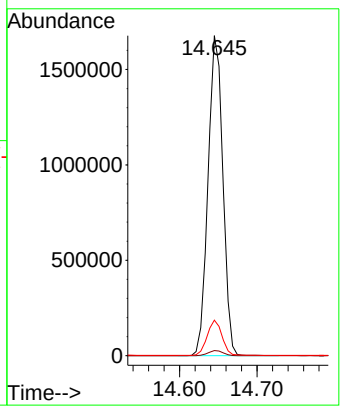


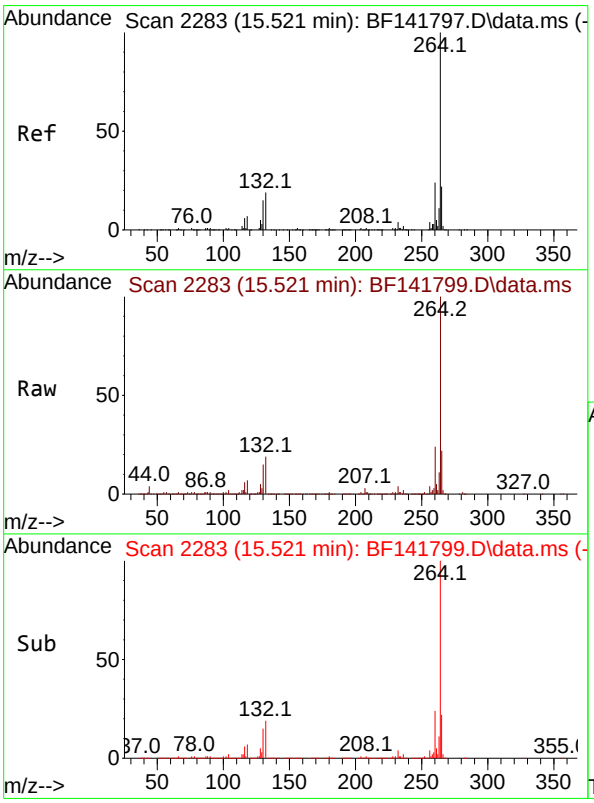
#85
Di-n-octyl phthalate
Concen: 67.411 ng
RT: 14.645 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:149 Resp: 2225625

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	11.0	8.6	12.8

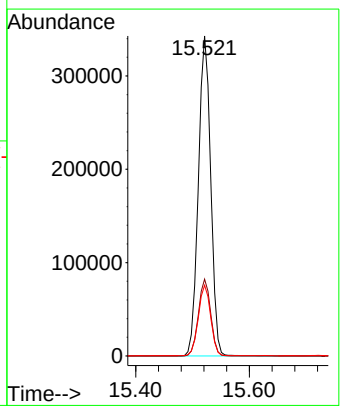


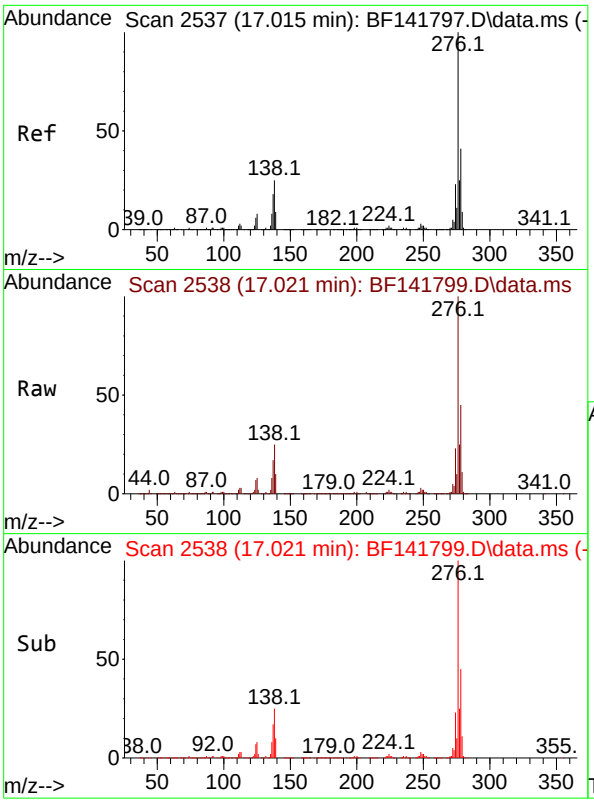


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:264 Resp: 517191

Ion	Ratio	Lower	Upper
264	100		
260	24.0	18.9	28.3
265	22.1	17.4	26.0



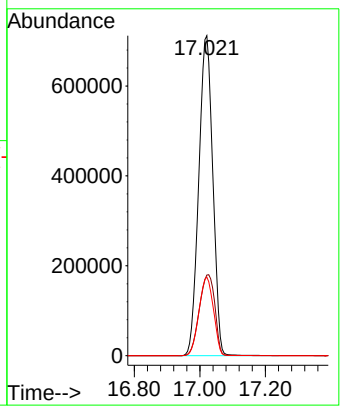


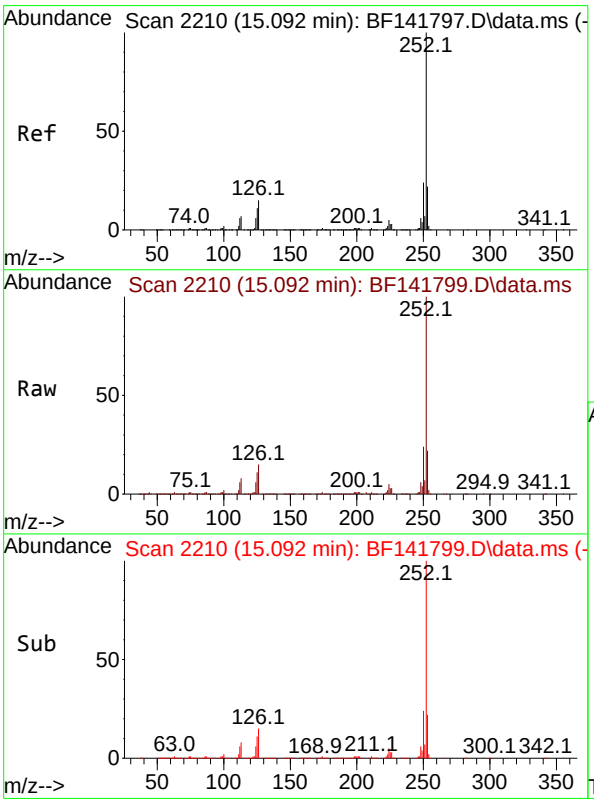
#87
Indeno(1,2,3-cd)pyrene
Concen: 64.589 ng
RT: 17.021 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:276 Resp: 2127125

Ion	Ratio	Lower	Upper
276	100		
138	28.0	22.5	33.7
277	25.4	20.3	30.5

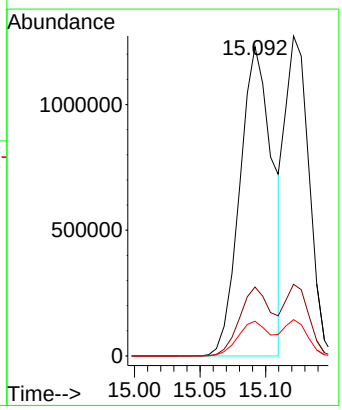


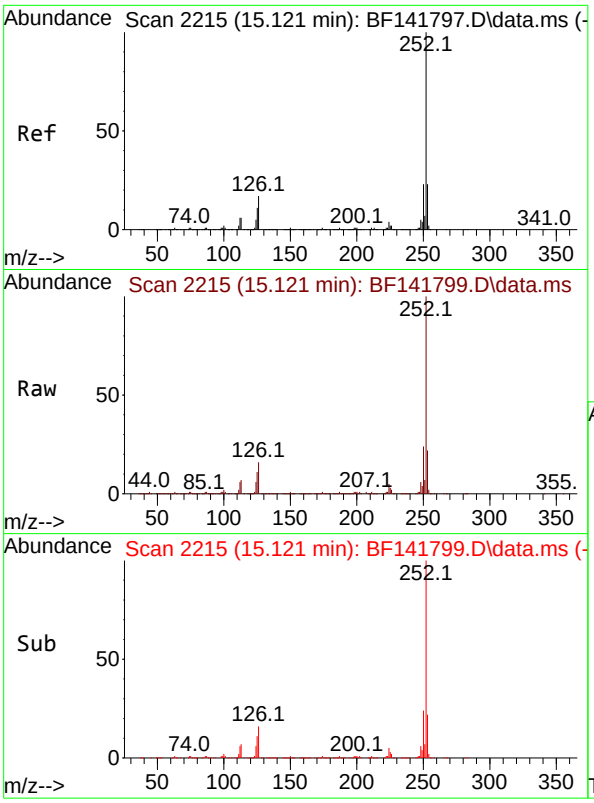


#88
Benzo(b)fluoranthene
Concen: 60.349 ng
RT: 15.092 min Scan# 2210
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:252 Resp: 2126076

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.7	26.5
125	11.2	8.6	13.0



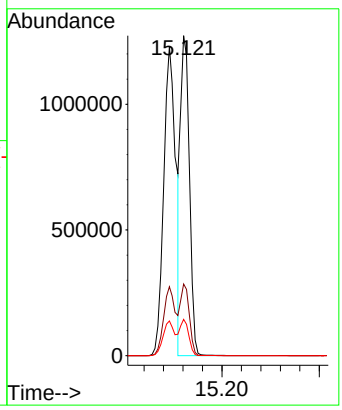


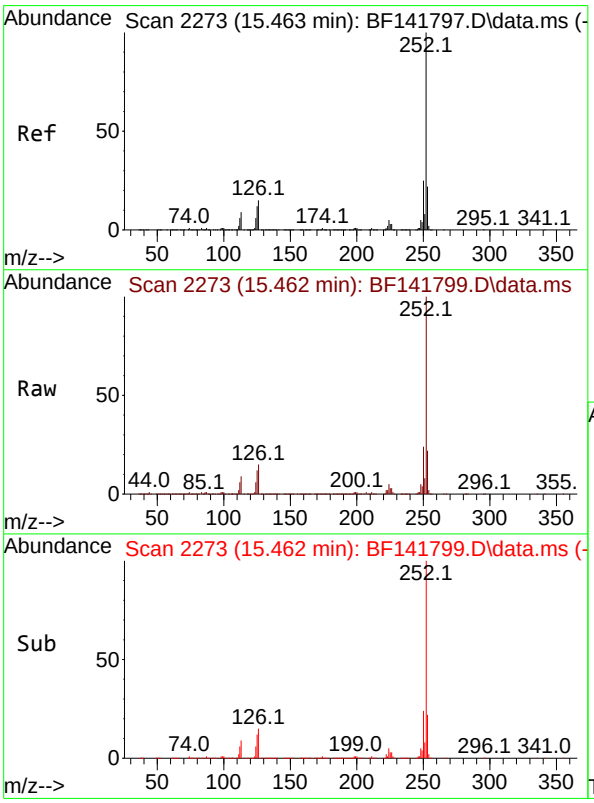
#89
Benzo(k)fluoranthene
Concen: 53.909 ng
RT: 15.121 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:252 Resp: 1614240

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.8	26.8
125	11.4	8.8	13.2

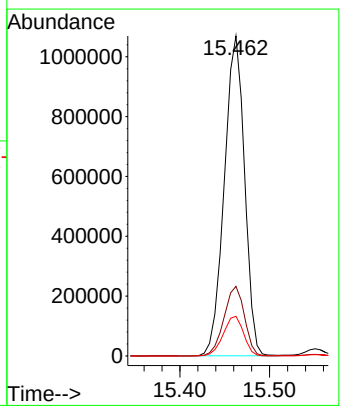


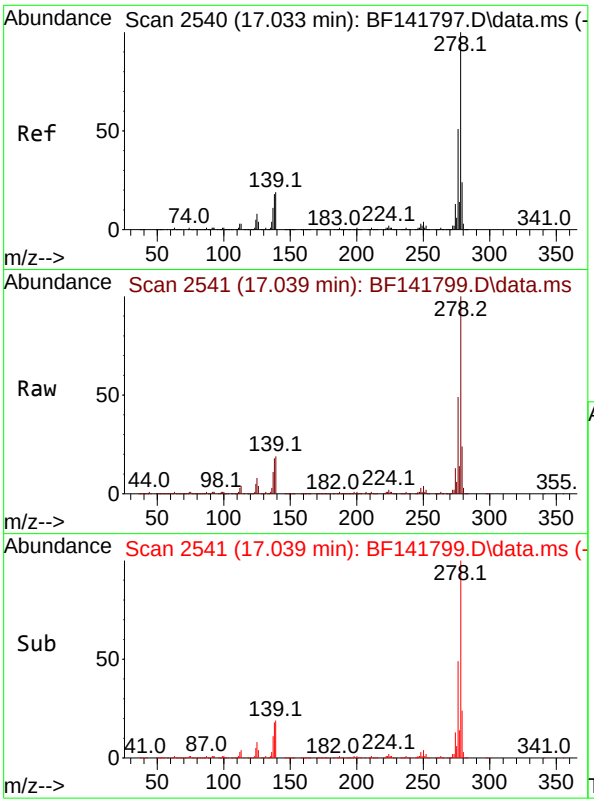


#90
Benzo(a)pyrene
Concen: 59.327 ng
RT: 15.462 min Scan# 2273
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:252 Resp: 1676196

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	12.4	9.4	14.2



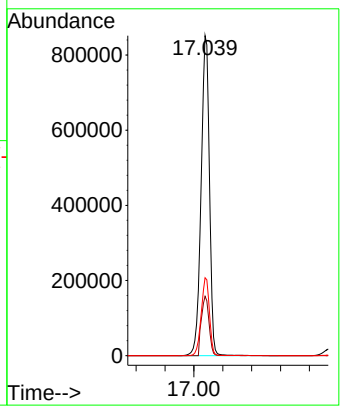


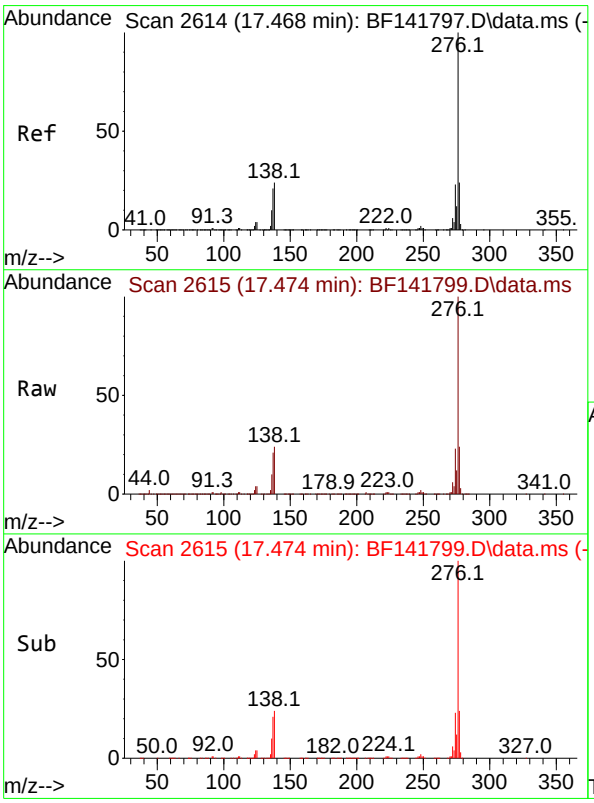
#91
Dibenzo(a,h)anthracene
Concen: 63.544 ng
RT: 17.039 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:278 Resp: 1708189

Ion	Ratio	Lower	Upper
278	100		
139	18.5	14.9	22.3
279	24.4	19.3	28.9

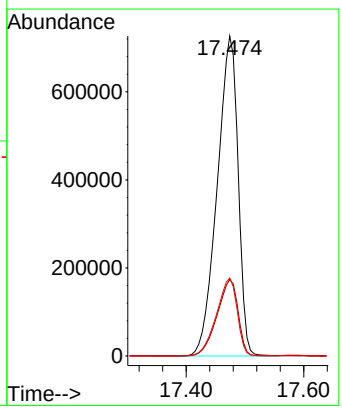




#92
Benzo(g,h,i)perylene
Concen: 65.105 ng
RT: 17.474 min Scan# 2615
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:276 Resp: 1792957

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.4	29.0
138	24.3	19.3	28.9



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141800.D
Acq On : 27 Feb 2025 18:45
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 28 01:28:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.892	152	288826	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	1114934	20.000	ng		0.00
39) Acenaphthene-d10	9.927	164	596680	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	953117	20.000	ng		0.00
76) Chrysene-d12	14.051	240	523206	20.000	ng		0.00
86) Perylene-d12	15.521	264	508610	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	2612441	144.448	ng		0.00
7) Phenol-d6	6.522	99	3411771	144.934	ng		0.01
23) Nitrobenzene-d5	7.463	82	3027619	173.576	ng		0.01
42) 2,4,6-Tribromophenol	10.722	330	924112	164.969	ng		0.00
45) 2-Fluorobiphenyl	9.251	172	5006600	134.541	ng		0.00
79) Terphenyl-d14	13.004	244	4843134	149.765	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.675	88	624874	76.145	ng		100
3) Pyridine	3.446	79	1560139	76.409	ng		99
4) n-Nitrosodimethylamine	3.410	42	788941	80.304	ng		98
6) Aniline	6.551	93	1743358m	71.624	ng		
8) 2-Chlorophenol	6.681	128	1409554	72.047	ng		99
9) Benzaldehyde	6.445	77	801799	58.556	ng		100
10) Phenol	6.539	94	1807328m	72.063	ng		
11) bis(2-Chloroethyl)ether	6.634	93	1461868	76.240	ng		96
12) 1,3-Dichlorobenzene	6.834	146	1510694	72.103	ng		99
13) 1,4-Dichlorobenzene	6.910	146	1522041	72.097	ng		99
14) 1,2-Dichlorobenzene	7.069	146	1370457	69.519	ng		99
15) Benzyl Alcohol	7.034	79	1363091	72.454	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.169	45	2095843	71.973	ng		98
17) 2-Methylphenol	7.139	107	1211432	75.016	ng		99
18) Hexachloroethane	7.404	117	593057	75.056	ng		98
19) n-Nitroso-di-n-propyla...	7.322	70	1126427	72.793	ng		98
20) 3+4-Methylphenols	7.298	107	1383814	68.816	ng	#	88
22) Acetophenone	7.310	105	1933636	71.209	ng		99
24) Nitrobenzene	7.481	77	1579955	84.587	ng		100
25) Isophorone	7.722	82	2894041	77.230	ng		100
26) 2-Nitrophenol	7.792	139	705125	81.046	ng		100
27) 2,4-Dimethylphenol	7.822	122	1051076	76.304	ng		99
28) bis(2-Chloroethoxy)met...	7.928	93	1759255	73.596	ng		99
29) 2,4-Dichlorophenol	8.028	162	1227409	77.239	ng		99
30) 1,2,4-Trichlorobenzene	8.116	180	1304033	74.888	ng		99
31) Naphthalene	8.198	128	4040110	70.504	ng		99
32) Benzoic acid	7.975	122	1008619	81.363	ng		99
33) 4-Chloroaniline	8.251	127	1607098	76.489	ng		100
34) Hexachlorobutadiene	8.316	225	836069	77.265	ng		99
35) Caprolactam	8.639	113	383145	78.359	ng		99
36) 4-Chloro-3-methylphenol	8.722	107	1349234	76.431	ng		99
37) 2-Methylnaphthalene	8.886	142	2637302	70.167	ng		99
38) 1-Methylnaphthalene	8.986	142	2541019	70.457	ng		99
40) 1,2,4,5-Tetrachloroben...	9.051	216	1288540	74.773	ng		99
41) Hexachlorocyclopentadiene	9.039	237	564266	78.461	ng		99
43) 2,4,6-Trichlorophenol	9.163	196	898797	80.742	ng		99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141800.D
Acq On : 27 Feb 2025 18:45
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 28 01:28:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	859610	77.984	ng		99
46) 1,1'-Biphenyl	9.357	154	3156440	69.499	ng		99
47) 2-Chloronaphthalene	9.380	162	2401468	71.641	ng		98
48) 2-Nitroaniline	9.469	65	770567	80.727	ng		99
49) Acenaphthylene	9.792	152	3512076	69.880	ng		99
50) Dimethylphthalate	9.663	163	2921217	73.107	ng		100
51) 2,6-Dinitrotoluene	9.716	165	622623	79.481	ng		100
52) Acenaphthene	9.969	154	2480302	73.139	ng		100
53) 3-Nitroaniline	9.886	138	667119	79.835	ng		97
54) 2,4-Dinitrophenol	9.986	184	277943	79.409	ng	#	1
55) Dibenzofuran	10.139	168	3427897	69.448	ng		98
56) 4-Nitrophenol	10.033	139	541317	91.723	ng		100
57) 2,4-Dinitrotoluene	10.122	165	764012	79.344	ng		97
58) Fluorene	10.480	166	2557382	69.170	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	752913	78.537	ng		99
60) Diethylphthalate	10.357	149	2893471	72.232	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	1341441	72.414	ng		99
62) 4-Nitroaniline	10.504	138	611855	89.663	ng		99
63) Azobenzene	10.633	77	3013185	71.441	ng		98
65) 4,6-Dinitro-2-methylph...	10.527	198	393349	80.929	ng		98
66) n-Nitrosodiphenylamine	10.592	169	2313580	73.923	ng		99
67) 4-Bromophenyl-phenylether	10.963	248	852216	76.550	ng		98
68) Hexachlorobenzene	11.027	284	902644	76.782	ng		97
70) Pentachlorophenol	11.216	266	610264	81.849	ng		100
71) Phenanthrene	11.439	178	3584436	70.307	ng		99
72) Anthracene	11.492	178	3550480	69.487	ng		98
73) Carbazole	11.645	167	3130504	69.380	ng		99
74) Di-n-butylphthalate	11.974	149	3944814	68.971	ng		99
75) Fluoranthene	12.627	202	3496011	66.922	ng		99
77) Benzidine	12.745	184	660393	100.283	ng		99
78) Pyrene	12.857	202	3466035	76.502	ng		99
80) Butylbenzylphthalate	13.474	149	1364388	82.887	ng		100
81) Benzo(a)anthracene	14.039	228	2703093	78.217	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	762858	76.939	ng		100
83) Chrysene	14.080	228	2394861	75.176	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	1730418	84.426	ng		99
85) Di-n-octyl phthalate	14.645	149	2821762	91.958	ng		100
87) Indeno(1,2,3-cd)pyrene	17.027	276	2842850	87.778	ng		99
88) Benzo(b)fluoranthene	15.092	252	2556011	73.777	ng		98
89) Benzo(k)fluoranthene	15.127	252	2184261	74.176	ng		99
90) Benzo(a)pyrene	15.468	252	2156583	77.617	ng		99
91) Dibenzo(a,h)anthracene	17.051	278	2269377	85.844	ng		99
92) Benzo(g,h,i)perylene	17.486	276	2397751	88.534	ng		99

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

ICAL Form

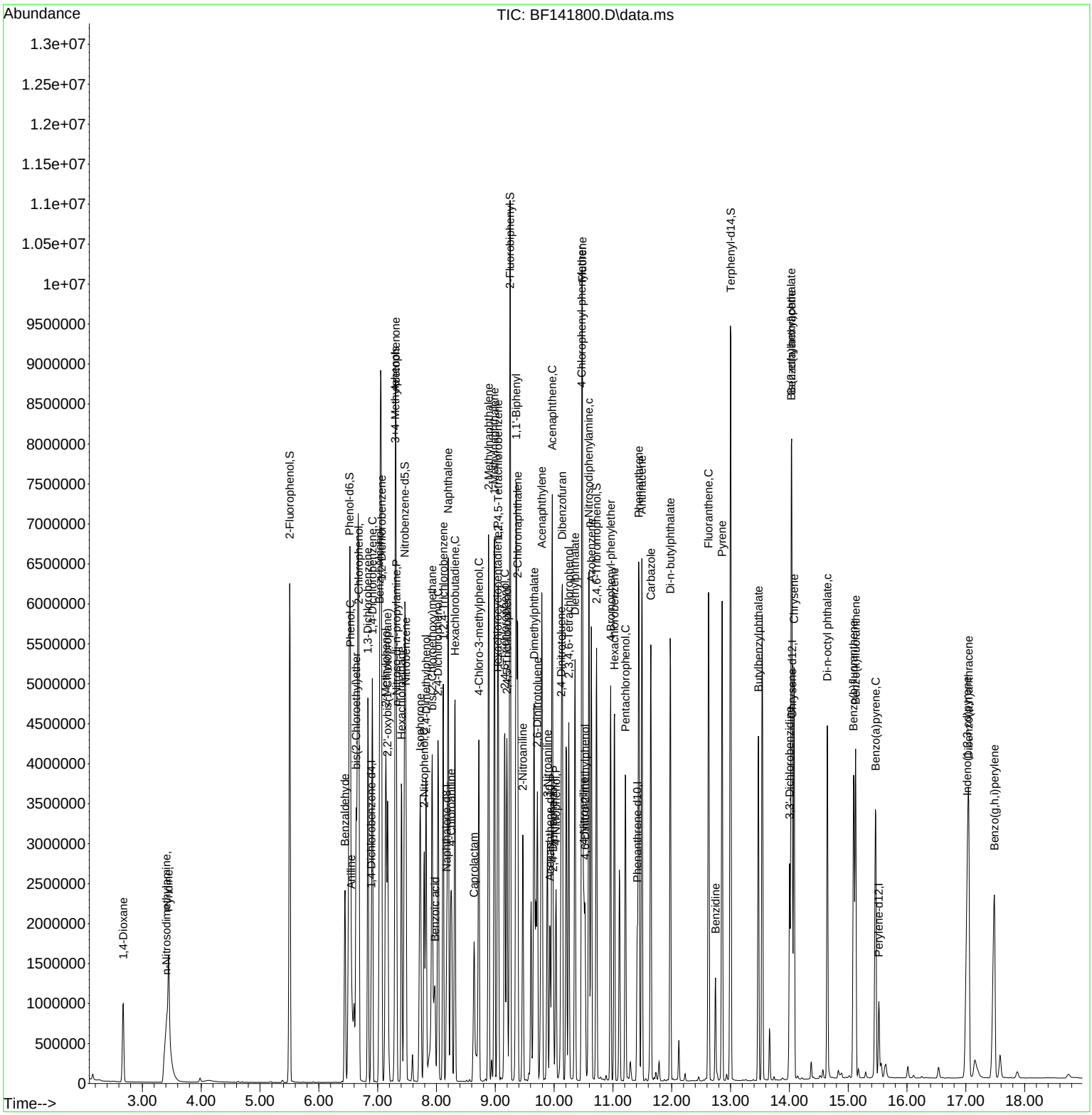
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141800.D
Acq On : 27 Feb 2025 18:45
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

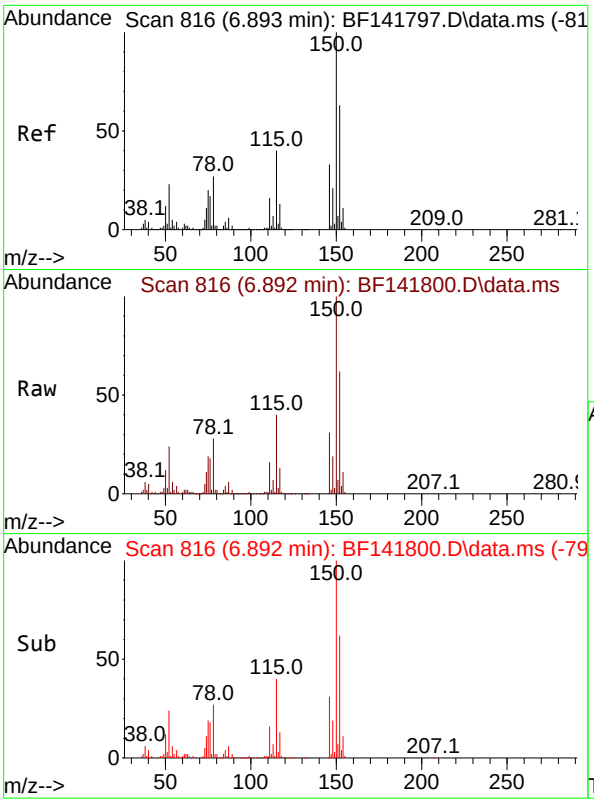
Quant Time: Feb 28 01:28:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

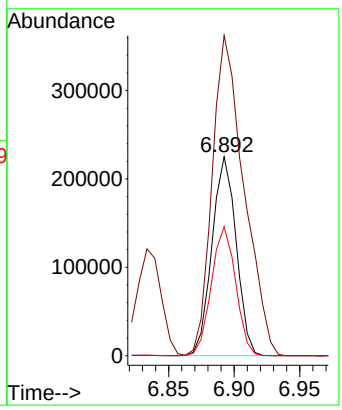




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 8
Delta R.T. -0.001 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:152 Resp: 28882

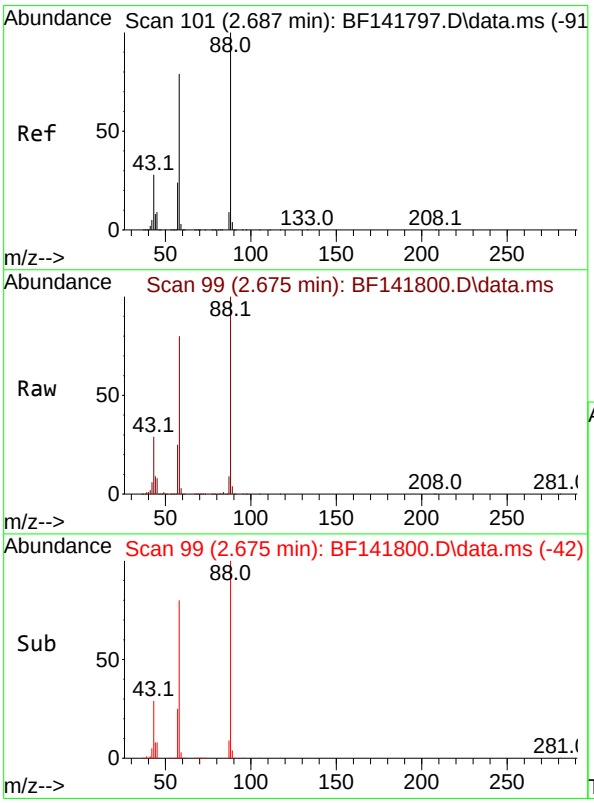
Ion	Ratio	Lower	Upper
152	100		
150	160.9	127.5	191.3
115	64.9	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

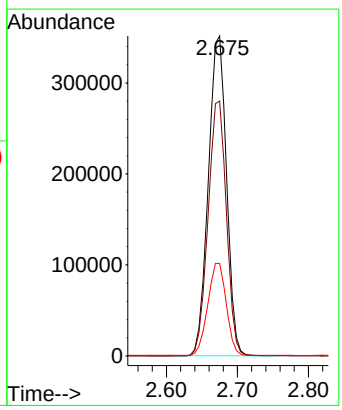
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

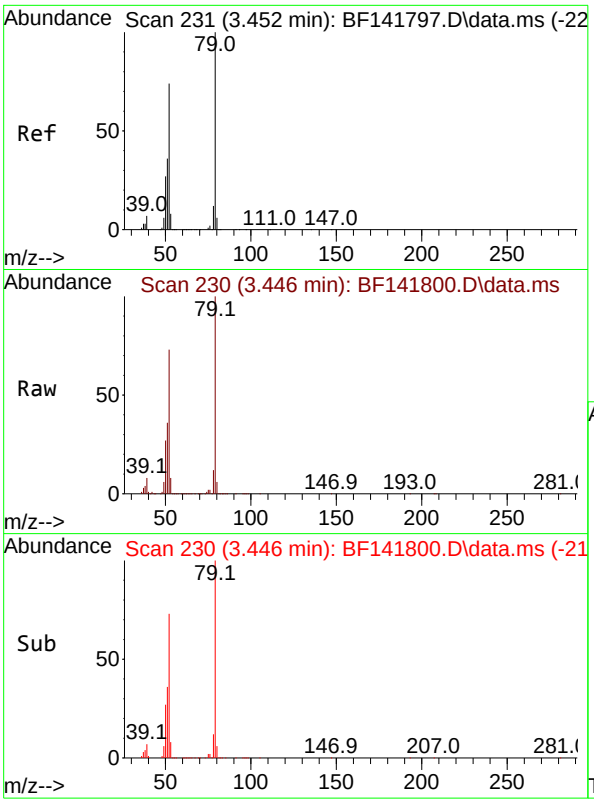


#2
1,4-Dioxane
Concen: 76.145 ng
RT: 2.675 min Scan# 99
Delta R.T. -0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 88 Resp: 624874

Ion	Ratio	Lower	Upper
88	100		
58	80.3	63.9	95.9
43	29.2	23.0	34.6

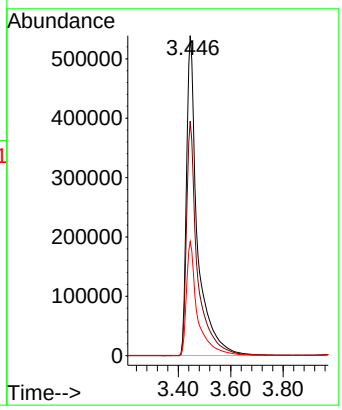




#3
Pyridine
Concen: 76.409 ng
RT: 3.446 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 79 Resp: 156013

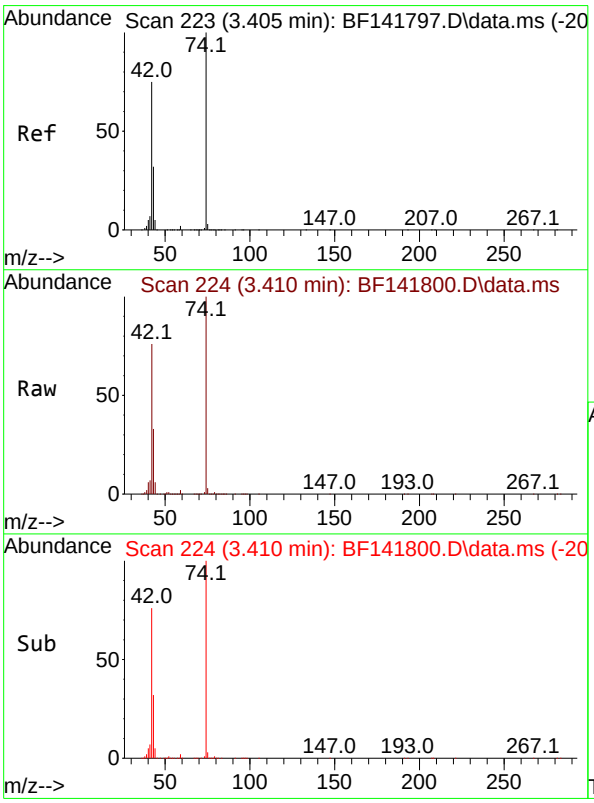
Ion	Ratio	Lower	Upper
79	100		
52	73.2	59.0	88.4
51	35.7	29.0	43.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

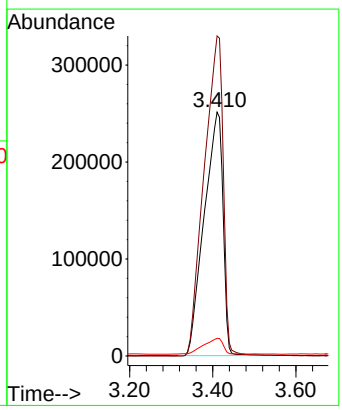
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

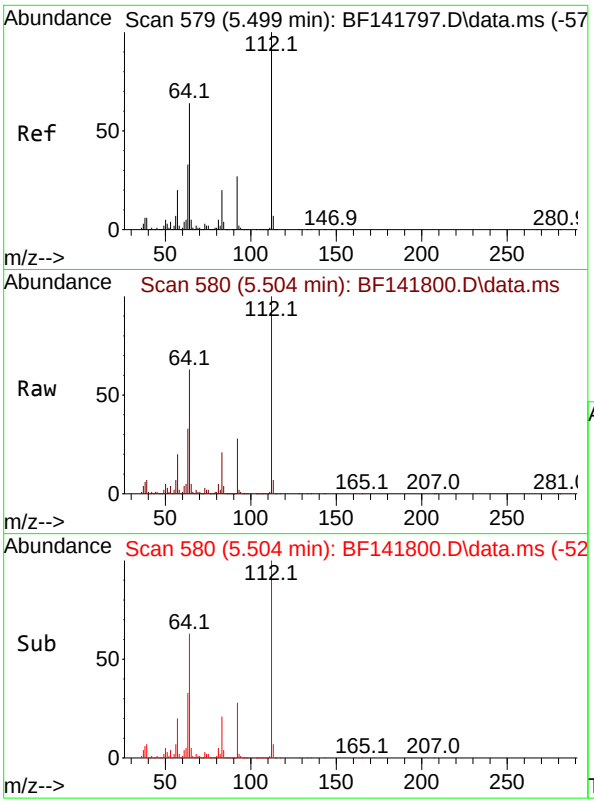


#4
n-Nitrosodimethylamine
Concen: 80.304 ng
RT: 3.410 min Scan# 224
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 42 Resp: 788941

Ion	Ratio	Lower	Upper
42	100		
74	131.2	107.1	160.7
44	7.2	6.6	9.8





#5
2-Fluorophenol
Concen: 144.448 ng
RT: 5.504 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

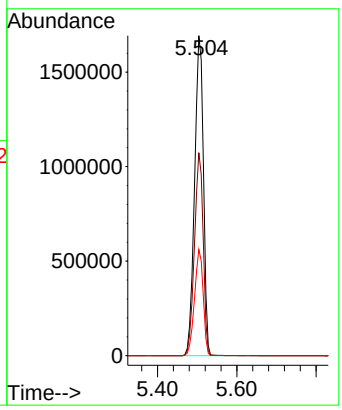
Tgt Ion:112 Resp: 261244

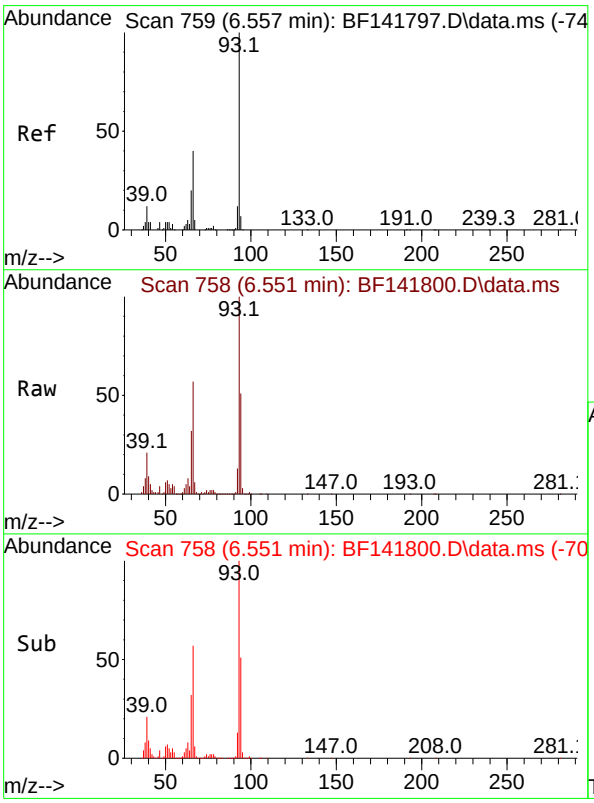
Ion	Ratio	Lower	Upper
112	100		
64	63.5	51.3	76.9
63	33.1	26.2	39.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

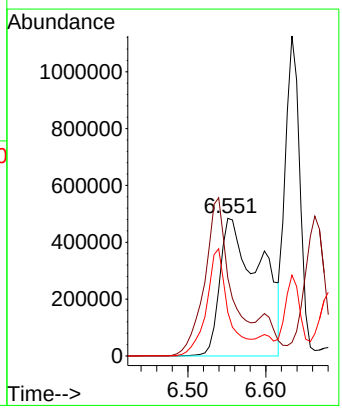


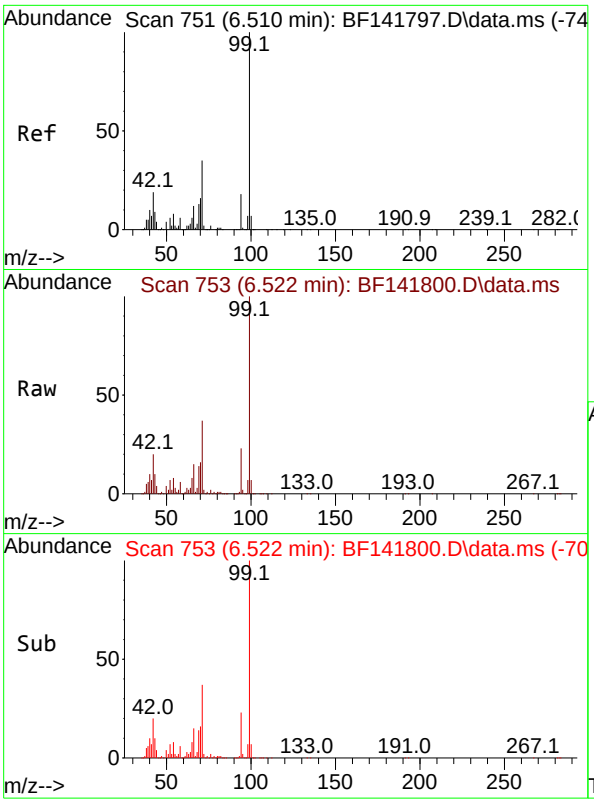


#6
Aniline
Concen: 71.624 ng m
RT: 6.551 min Scan# 758
Delta R.T. -0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 93 Resp: 1743358

Ion	Ratio	Lower	Upper
93	100		
66	56.8	32.3	48.5#
65	31.8	15.9	23.9#

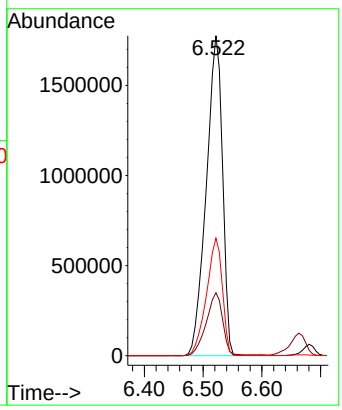




#7
Phenol-d6
Concen: 144.934 ng
RT: 6.522 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 99 Resp: 341177

Ion	Ratio	Lower	Upper
99	100		
42	19.7	15.2	22.8
71	36.7	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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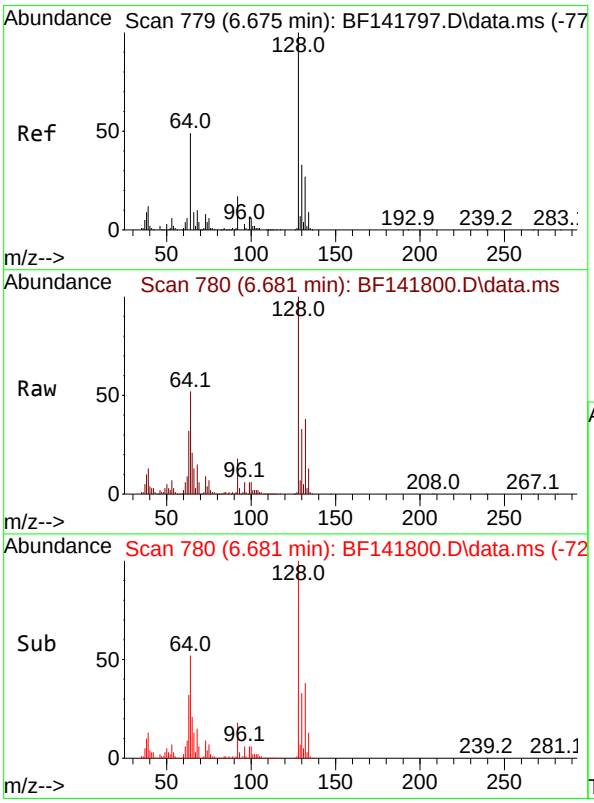
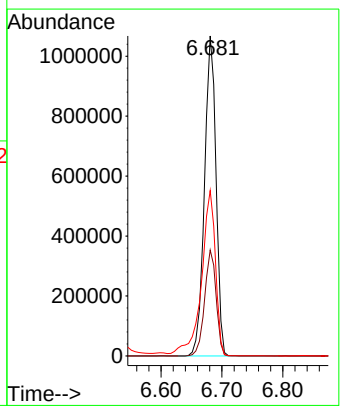
Supervised By :mohammad ahmed 02/28/2025

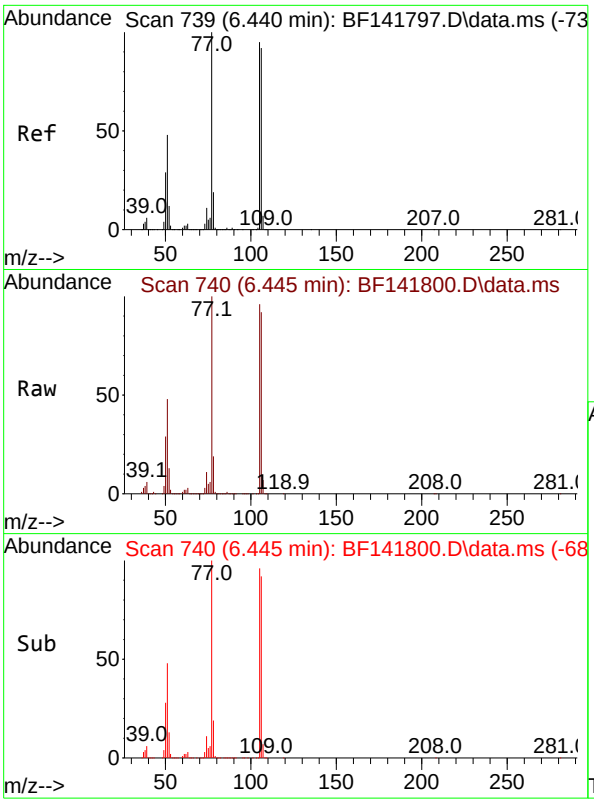


#8
2-Chlorophenol
Concen: 72.047 ng
RT: 6.681 min Scan# 780
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:128 Resp: 1409554

Ion	Ratio	Lower	Upper
128	100		
130	33.1	12.6	52.6
64	51.7	31.1	71.1

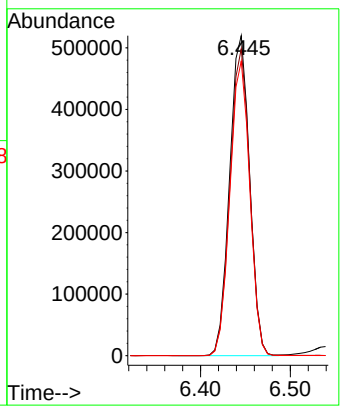




#9
Benzaldehyde
Concen: 58.556 ng
RT: 6.445 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 77 Resp: 80179

Ion	Ratio	Lower	Upper
77	100		
105	95.9	75.3	115.3
106	92.1	72.3	112.3



Instrument :
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ClientSampleId :
SSTDICC080

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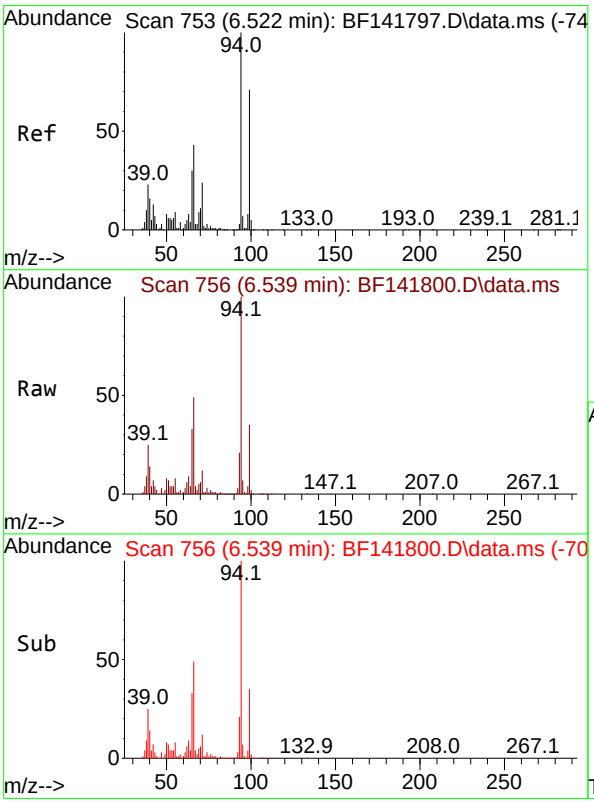
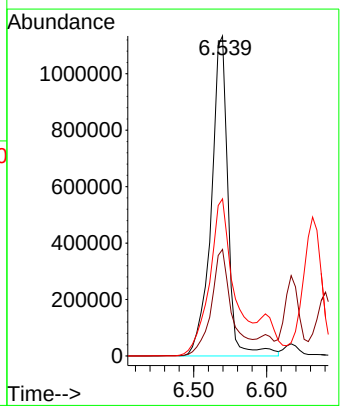
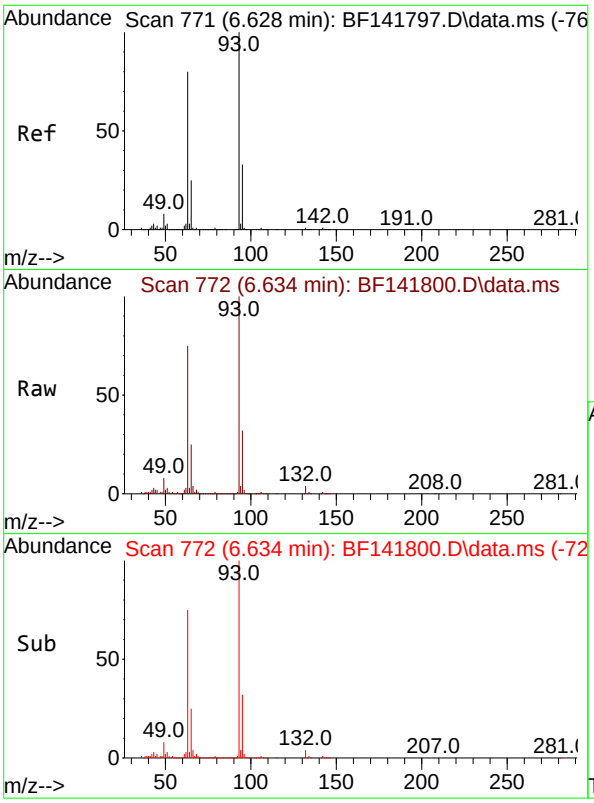


#10
Phenol
Concen: 72.063 ng m
RT: 6.539 min Scan# 756
Delta R.T. 0.017 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 94 Resp: 1807328

Ion	Ratio	Lower	Upper
94	100		
65	33.3	10.2	50.2
66	49.1	23.2	63.2

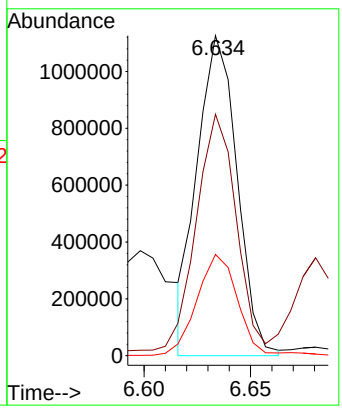




#11
bis(2-Chloroethyl)ether
Concen: 76.240 ng
RT: 6.634 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 93 Resp: 146186

Ion	Ratio	Lower	Upper
93	100		
63	75.5	59.3	99.3
95	31.7	13.2	53.2



Instrument :
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ClientSampleId :
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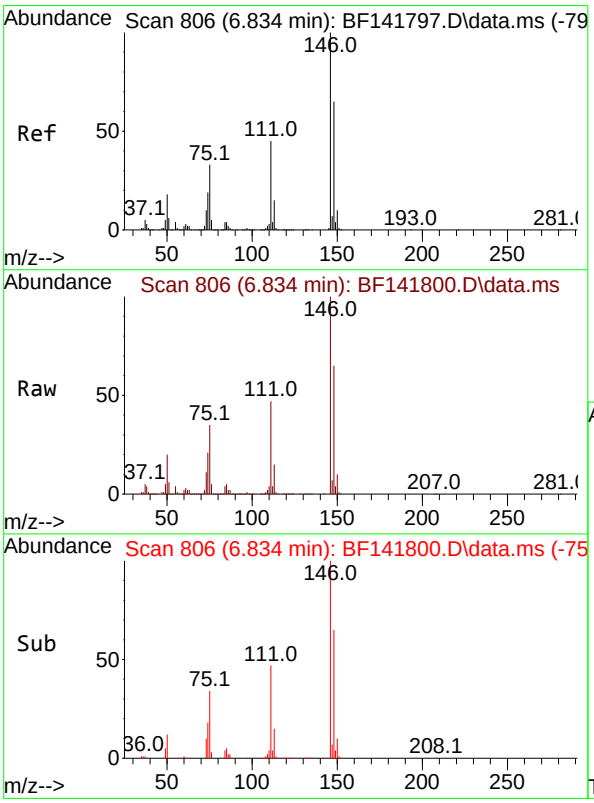
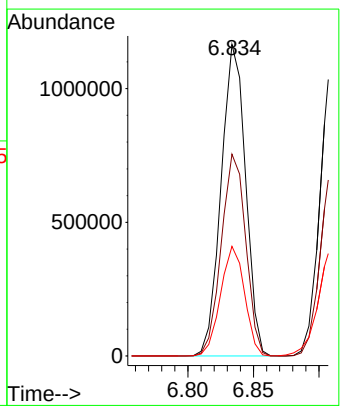
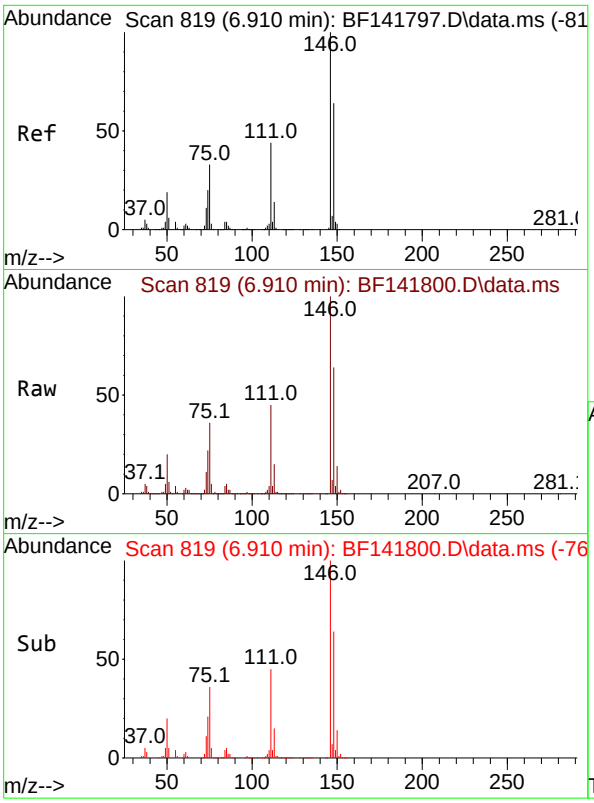


#12
1,3-Dichlorobenzene
Concen: 72.103 ng
RT: 6.834 min Scan# 806
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:146 Resp: 1510694

Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.8	77.6
75	35.2	26.2	39.4

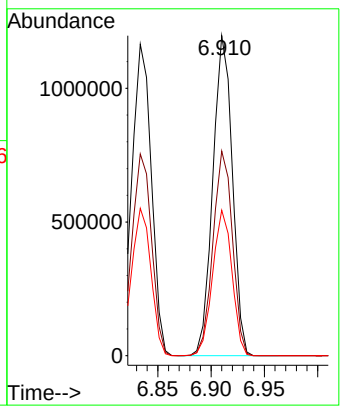




#13
1,4-Dichlorobenzene
Concen: 72.097 ng
RT: 6.910 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:146 Resp: 152204

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.4	77.2
111	45.5	35.5	53.3



Instrument :
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ClientSampleId :
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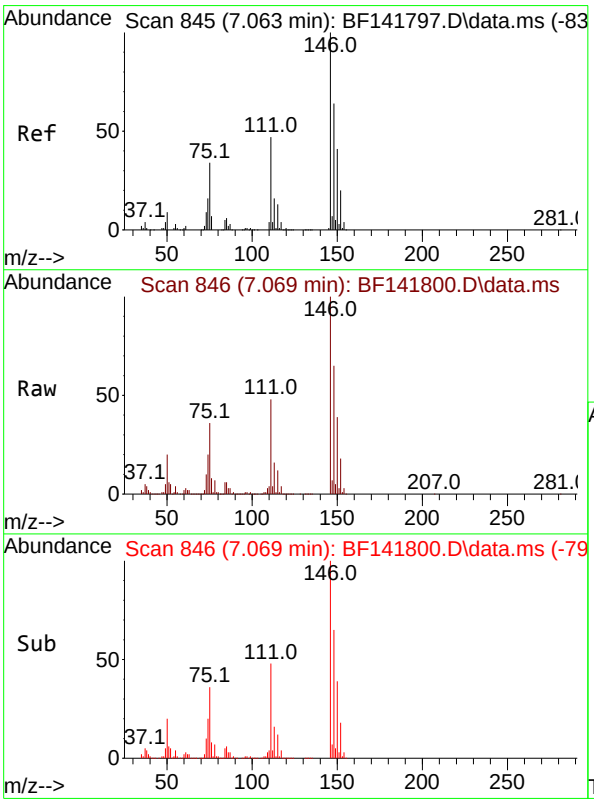
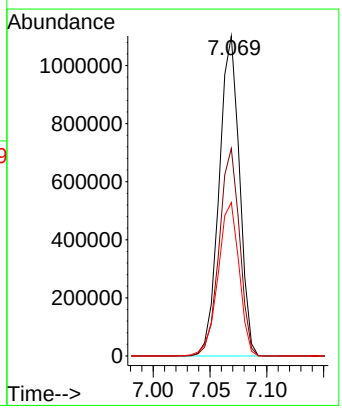
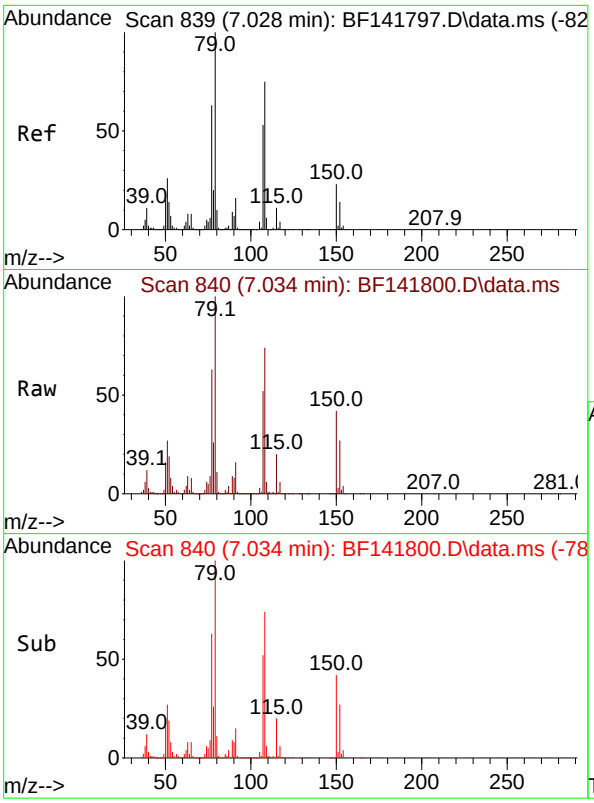


#14
1,2-Dichlorobenzene
Concen: 69.519 ng
RT: 7.069 min Scan# 846
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:146 Resp: 1370457

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.2	76.8
111	48.0	37.8	56.6





#15
Benzyl Alcohol
Concen: 72.454 ng
RT: 7.034 min Scan# 84
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 79 Resp: 136309

Ion	Ratio	Lower	Upper
79	100		
108	73.9	60.2	90.2
77	63.2	50.2	75.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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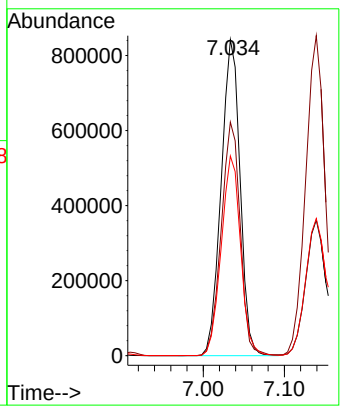
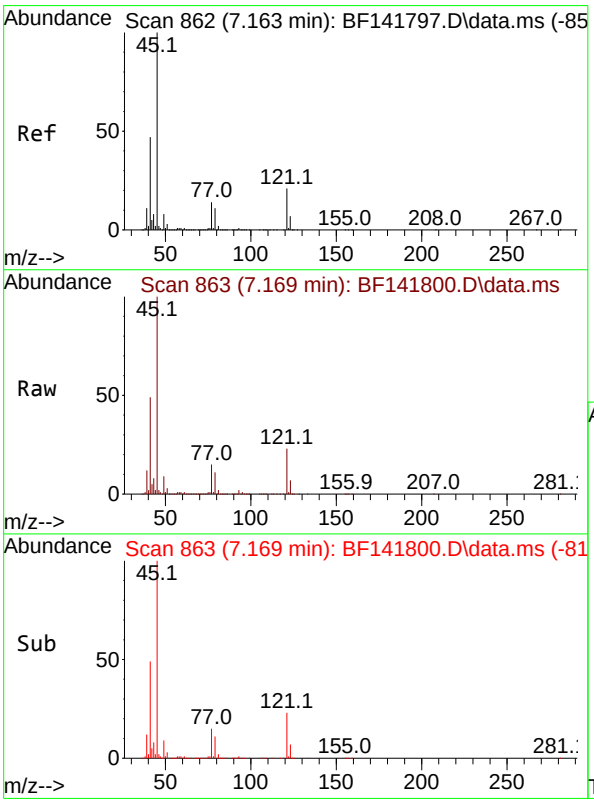
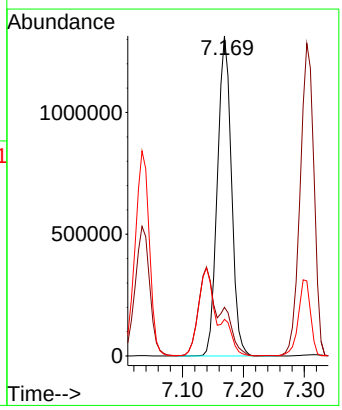


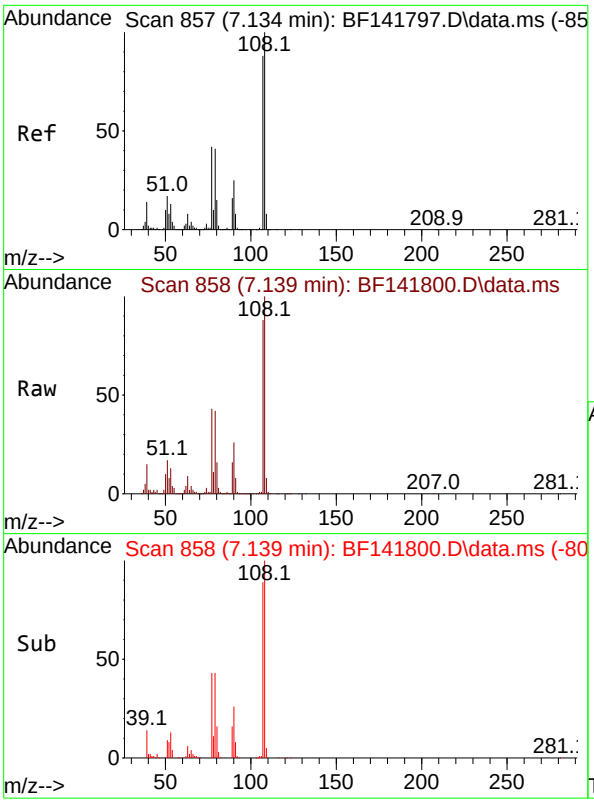


#16
2,2'-oxybis(1-Chloropropane)
Concen: 71.973 ng
RT: 7.169 min Scan# 863
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 45 Resp: 2095843

Ion	Ratio	Lower	Upper
45	100		
77	15.2	0.0	34.4
79	11.5	0.0	30.9

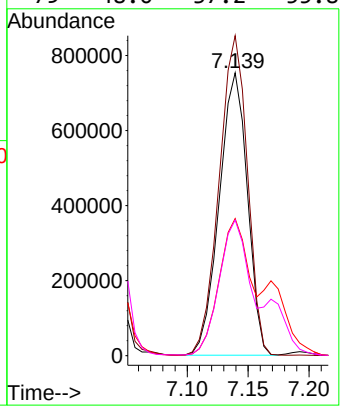




#17
2-Methylphenol
Concen: 75.016 ng
RT: 7.139 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:107 Resp: 121143

Ion	Ratio	Lower	Upper
107	100		
108	113.1	90.6	135.8
77	48.5	37.7	56.5
79	48.0	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
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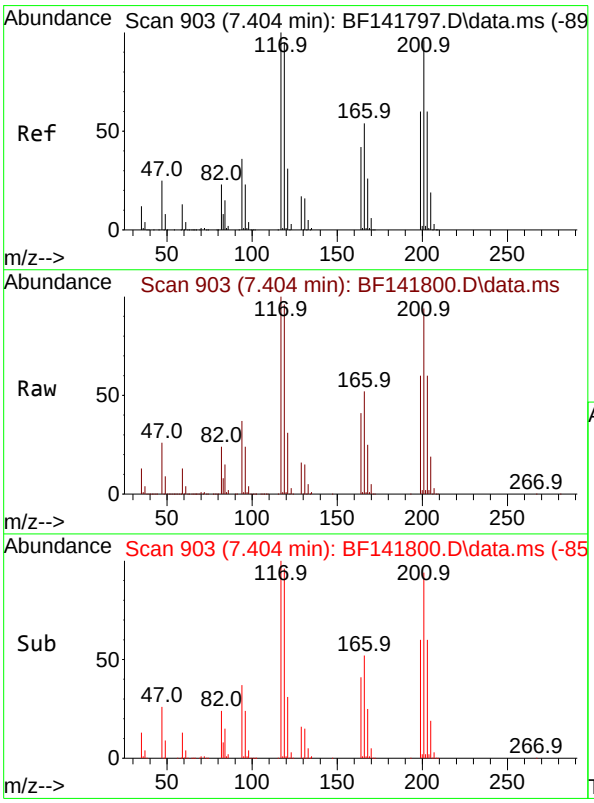
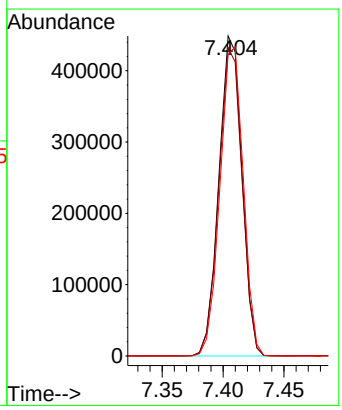
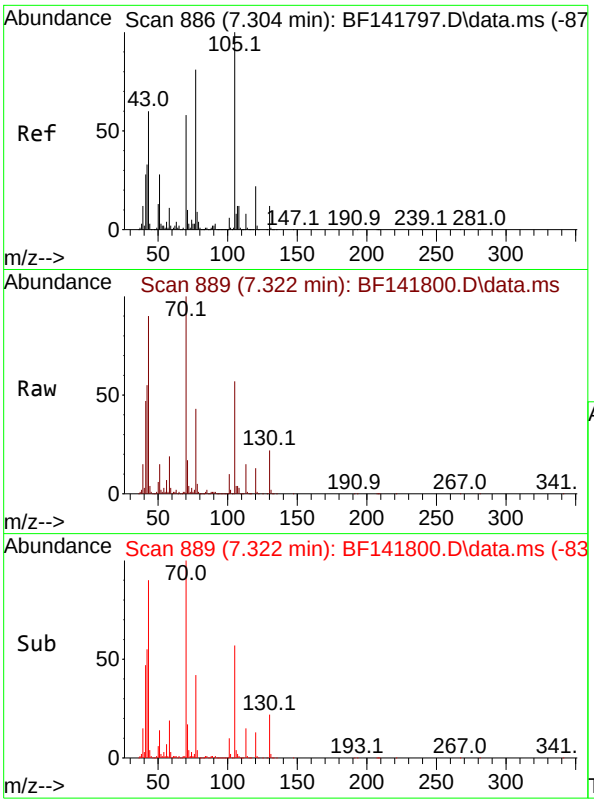


#18
Hexachloroethane
Concen: 75.056 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:117 Resp: 593057

Ion	Ratio	Lower	Upper
117	100		
119	96.3	75.8	113.8
201	94.2	76.7	115.1

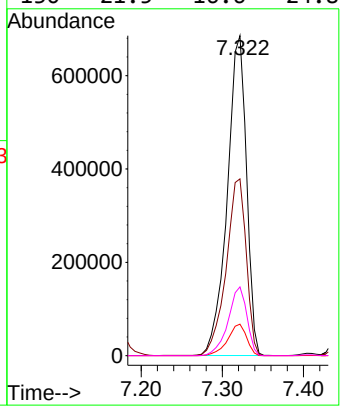




#19
n-Nitroso-di-n-propylamine
Concen: 72.793 ng
RT: 7.322 min Scan# 8
Delta R.T. 0.017 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 70 Resp: 112642

Ion	Ratio	Lower	Upper
70	100		
42	55.3	45.4	68.0
101	9.8	7.8	11.8
130	21.5	16.6	24.8



Instrument :
BNA_F
ClientSampleId :
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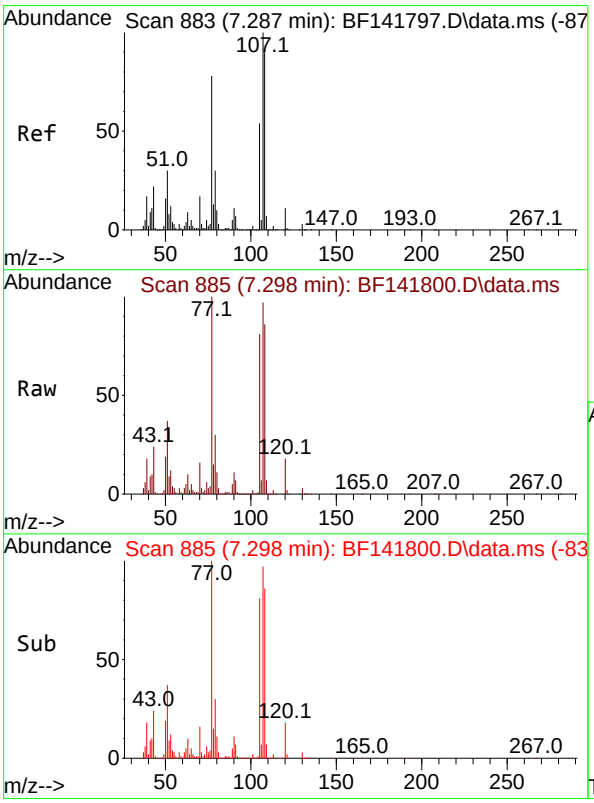
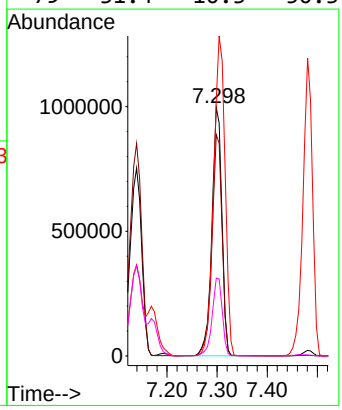
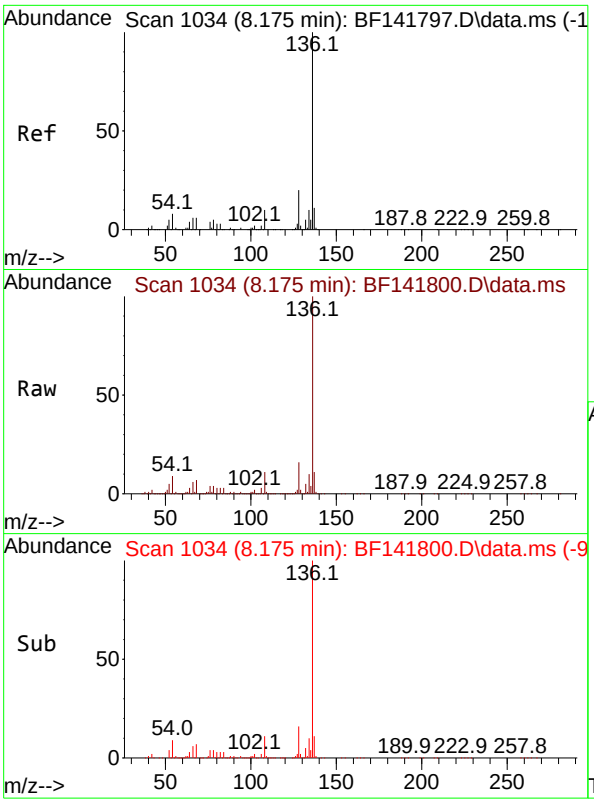


#20
3+4-Methylphenols
Concen: 68.816 ng
RT: 7.298 min Scan# 885
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:107 Resp: 1383814

Ion	Ratio	Lower	Upper
107	100		
108	89.1	69.7	109.7
77	103.3	58.3	98.3#
79	31.4	10.3	50.3

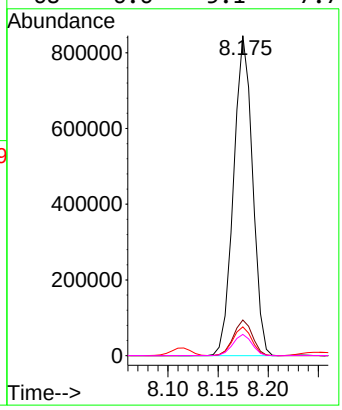




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:136 Resp: 111493

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	9.0	6.9	10.3
68	6.6	5.1	7.7



Instrument :
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ClientSampleId :
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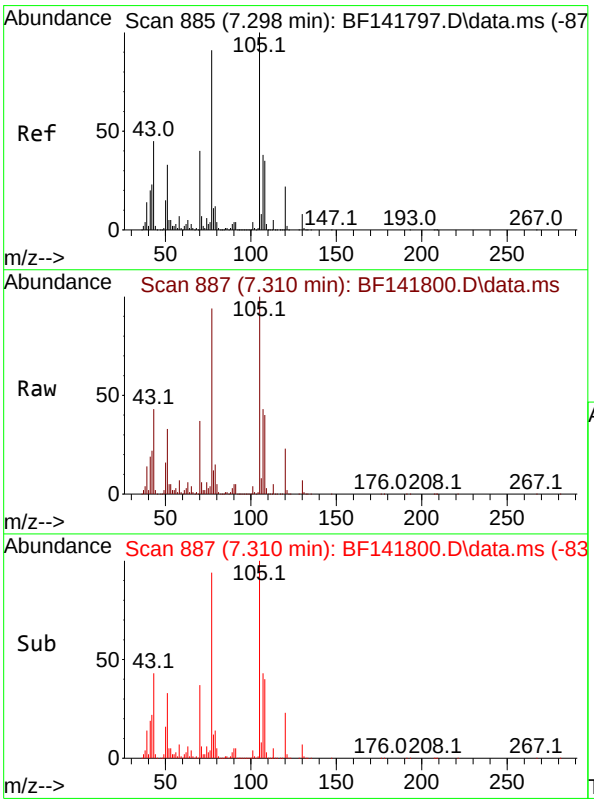
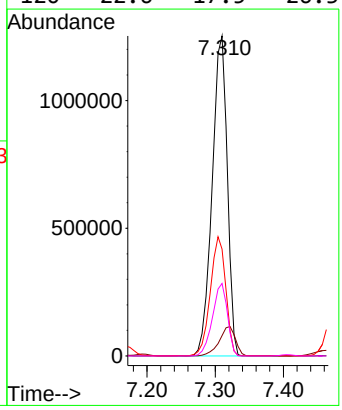
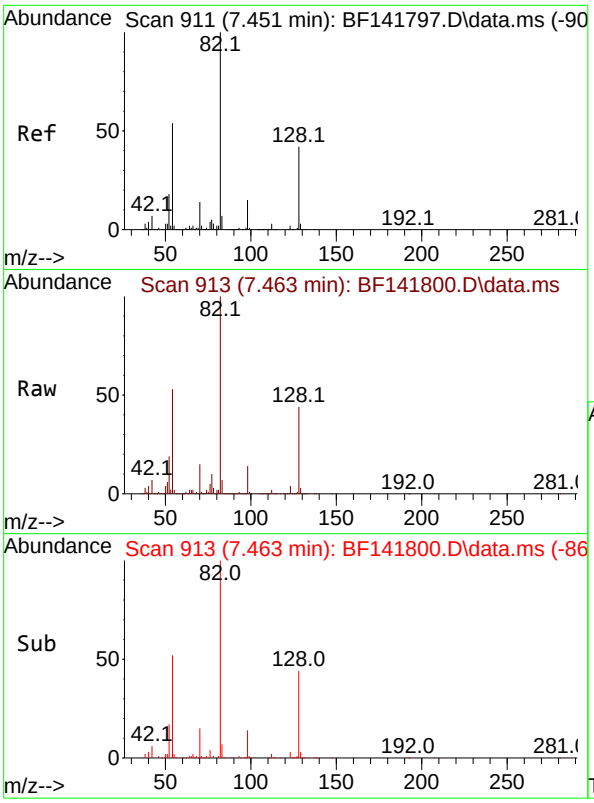


#22
Acetophenone
Concen: 71.209 ng
RT: 7.310 min Scan# 887
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:105 Resp: 1933636

Ion	Ratio	Lower	Upper
105	100		
71	6.3	5.4	8.0
51	33.4	26.1	39.1
120	22.6	17.5	26.3

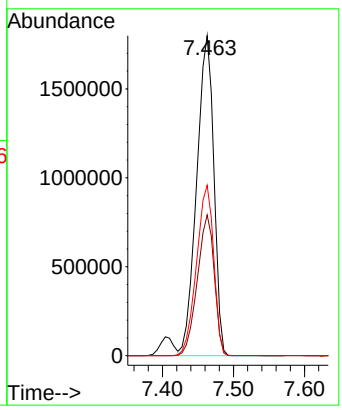




#23
Nitrobenzene-d5
Concen: 173.576 ng
RT: 7.463 min Scan# 9
Delta R.T. 0.011 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 82 Resp: 302761

Ion	Ratio	Lower	Upper
82	100		
128	44.0	33.5	50.3
54	53.3	42.7	64.1



Instrument :
BNA_F
ClientSampleId :
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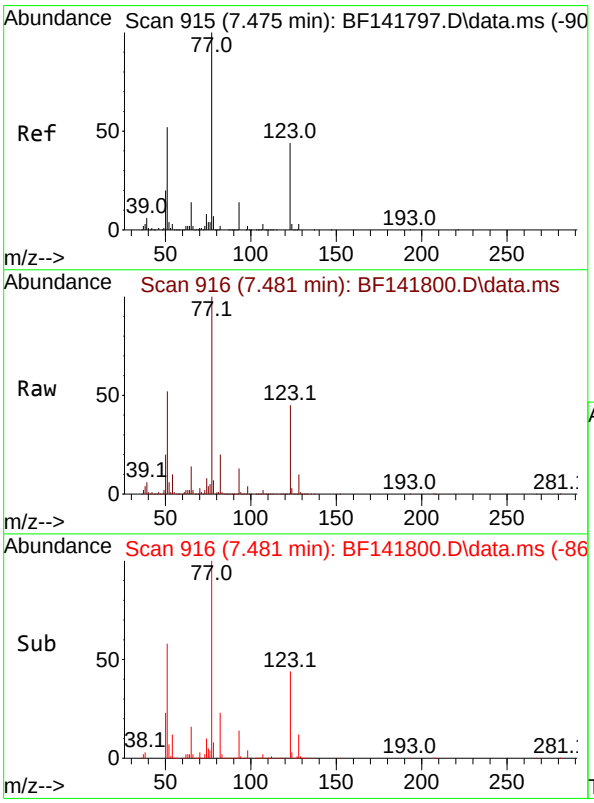
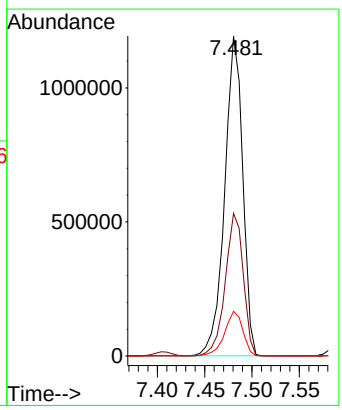
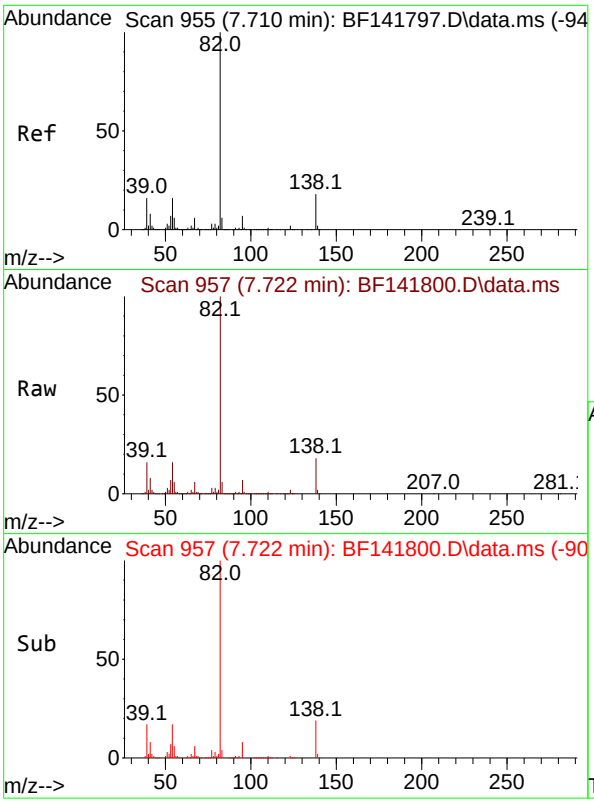


#24
Nitrobenzene
Concen: 84.587 ng
RT: 7.481 min Scan# 916
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 77 Resp: 1579955

Ion	Ratio	Lower	Upper
77	100		
123	44.5	35.8	53.8
65	14.0	11.2	16.8

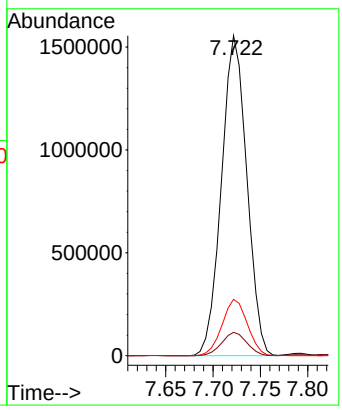




#25
Isophorone
Concen: 77.230 ng
RT: 7.722 min Scan# 9
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 82 Resp: 289404

Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.8
138	17.6	14.0	21.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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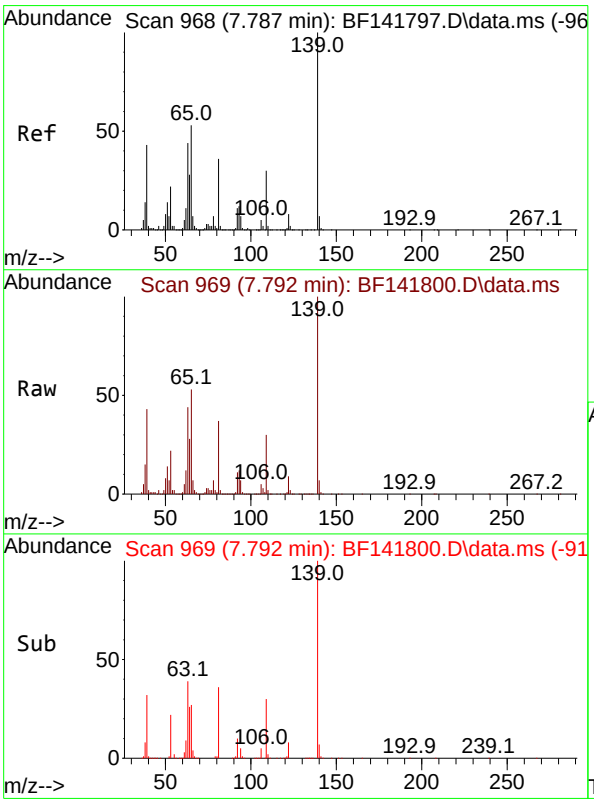
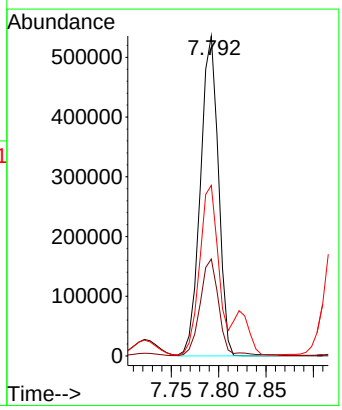
Supervised By :mohammad ahmed 02/28/2025

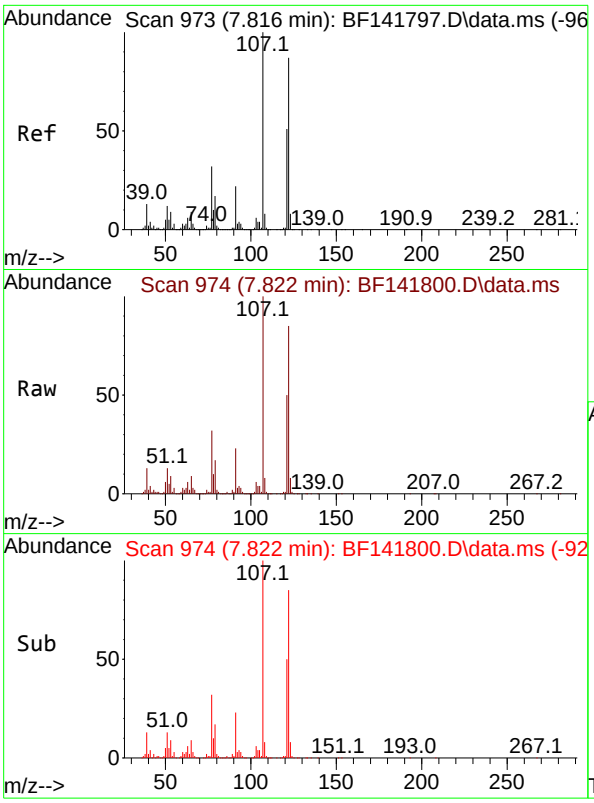


#26
2-Nitrophenol
Concen: 81.046 ng
RT: 7.792 min Scan# 969
Delta R.T. 0.005 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:139 Resp: 705125

Ion	Ratio	Lower	Upper
139	100		
109	30.3	24.1	36.1
65	53.3	42.3	63.5

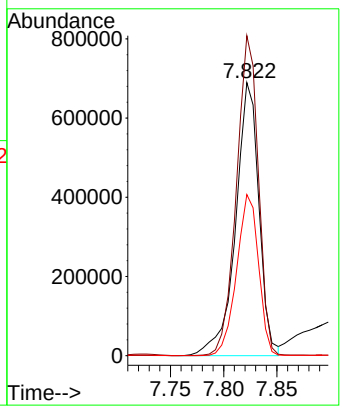




#27
2,4-Dimethylphenol
Concen: 76.304 ng
RT: 7.822 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:122 Resp: 105107

Ion	Ratio	Lower	Upper
122	100		
107	117.2	92.5	138.7
121	59.0	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
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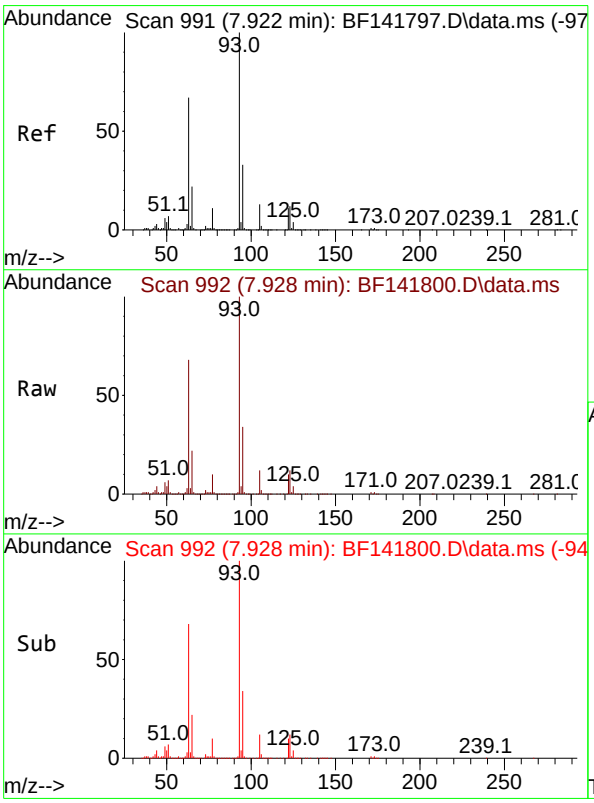
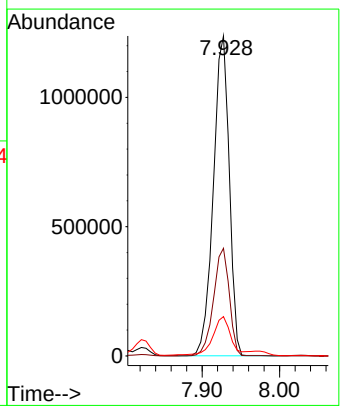
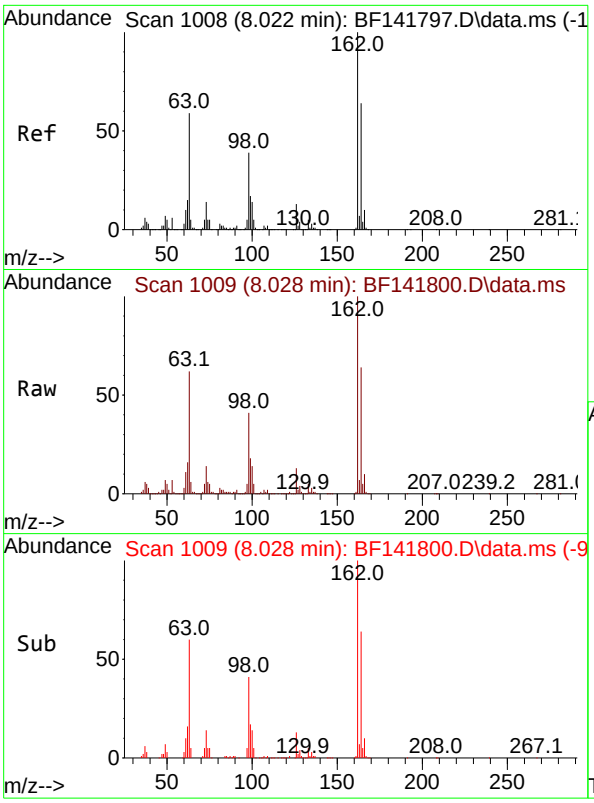


#28
bis(2-Chloroethoxy)methane
Concen: 73.596 ng
RT: 7.928 min Scan# 992
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 93 Resp: 1759255

Ion	Ratio	Lower	Upper
93	100		
95	33.7	26.5	39.7
123	12.3	10.0	15.0





#29
2,4-Dichlorophenol
Concen: 77.239 ng
RT: 8.028 min Scan# 1(
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:162 Resp: 122740

Ion	Ratio	Lower	Upper
162	100		
164	64.4	44.3	84.3
98	40.8	19.6	59.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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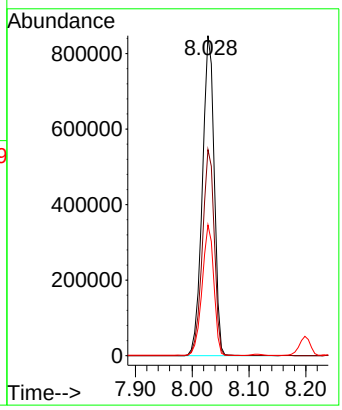
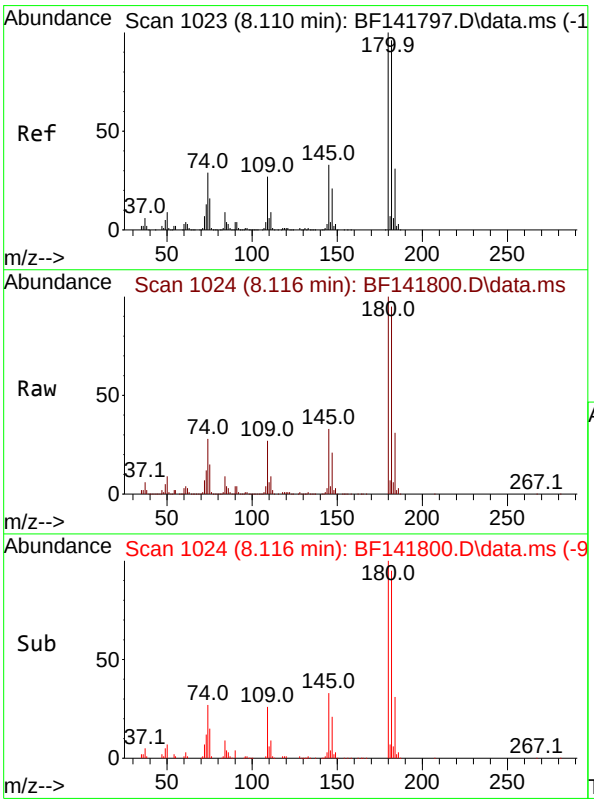
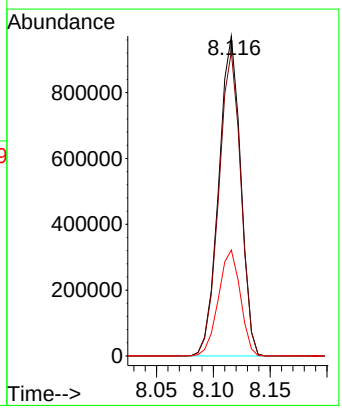


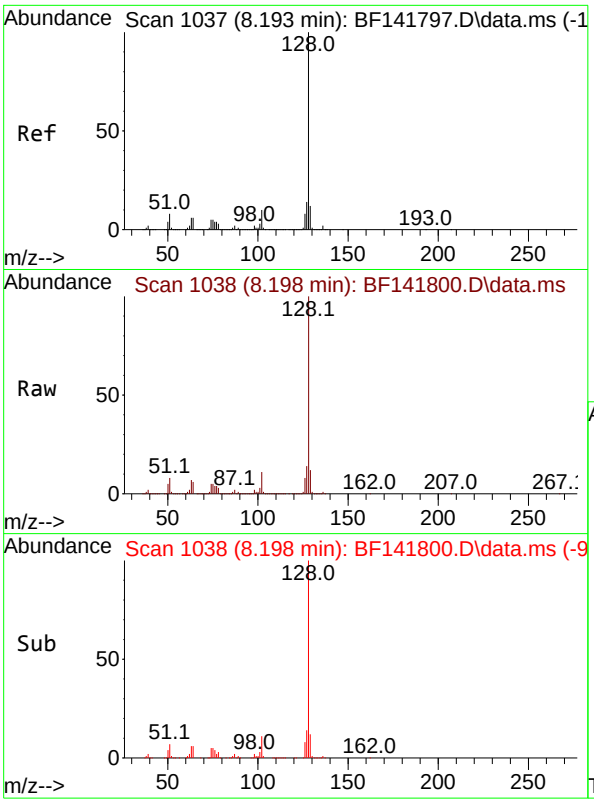


#30
1,2,4-Trichlorobenzene
Concen: 74.888 ng
RT: 8.116 min Scan# 1024
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:180 Resp: 1304033

Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.8	115.2
145	33.1	26.4	39.6





#31
Naphthalene
Concen: 70.504 ng
RT: 8.198 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:128 Resp: 404011

Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.2	13.8
127	14.3	11.0	16.4

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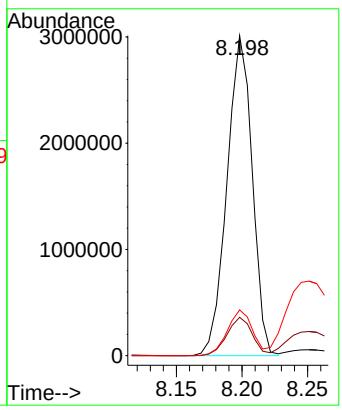
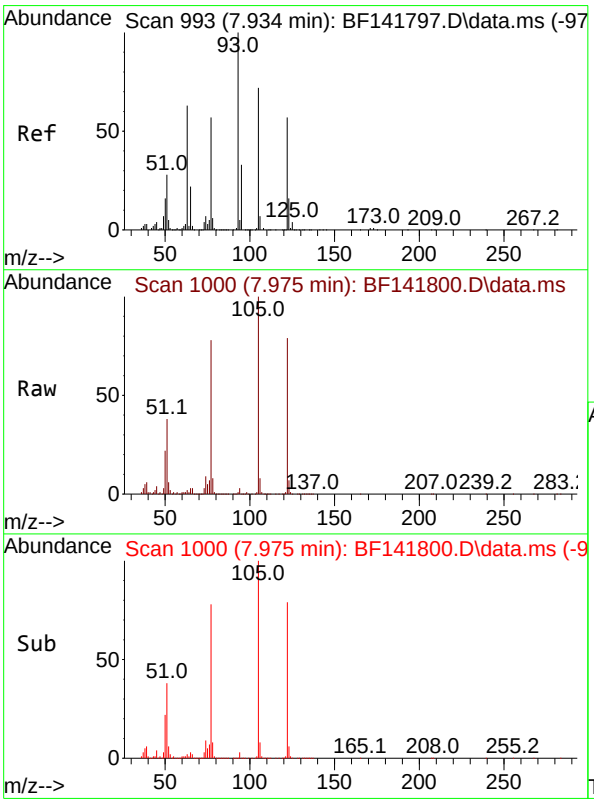
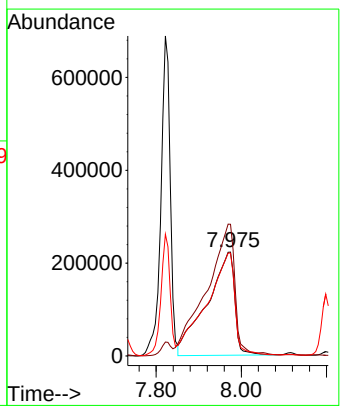


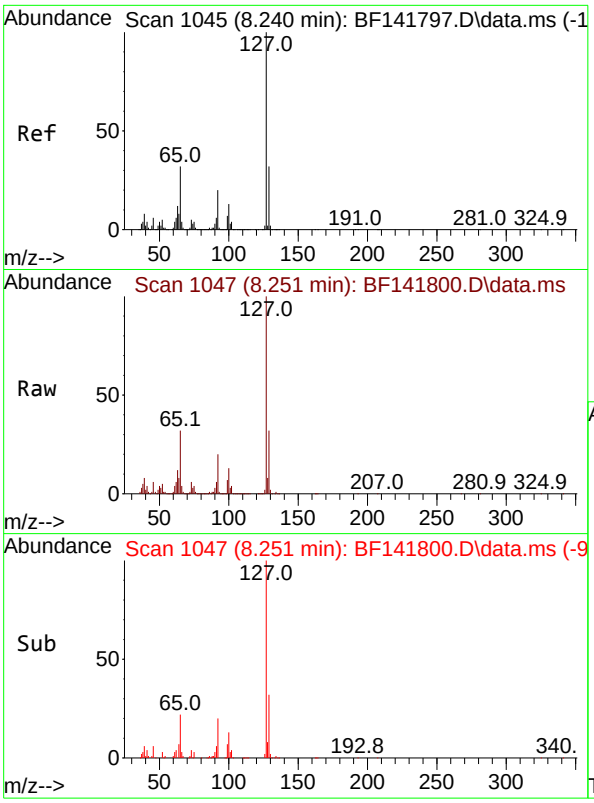


#32
Benzoic acid
Concen: 81.363 ng
RT: 7.975 min Scan# 1000
Delta R.T. 0.041 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:122 Resp: 1008619

Ion	Ratio	Lower	Upper
122	100		
105	126.8	105.8	145.8
77	99.0	79.9	119.9

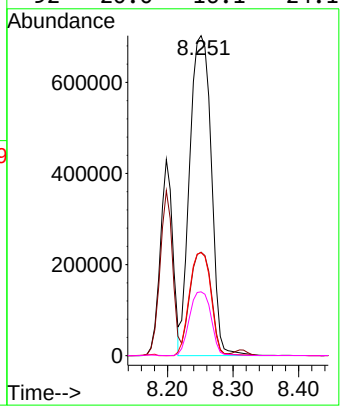




#33
4-Chloroaniline
Concen: 76.489 ng
RT: 8.251 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:127 Resp: 160709

Ion	Ratio	Lower	Upper
127	100		
129	32.3	26.1	39.1
65	32.2	25.7	38.5
92	20.0	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
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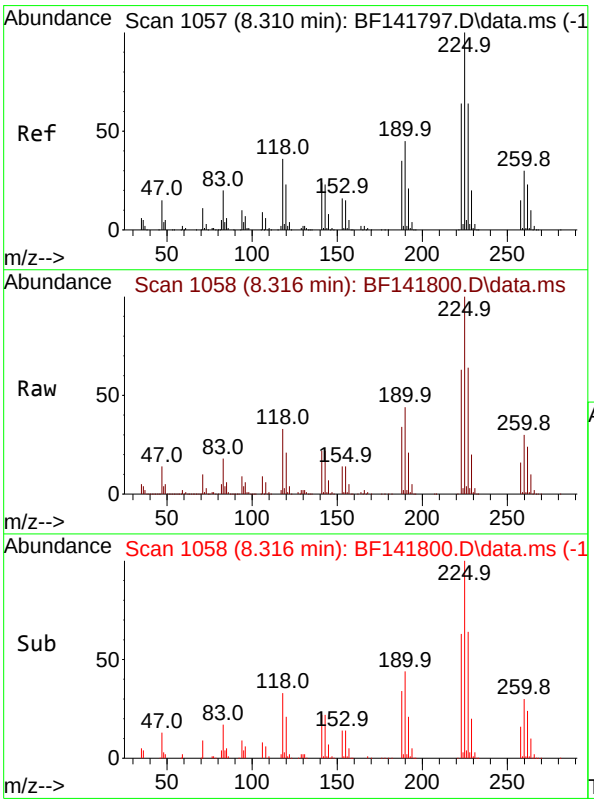
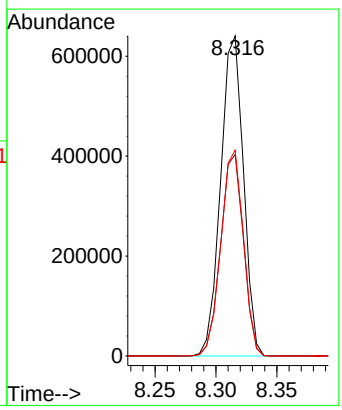
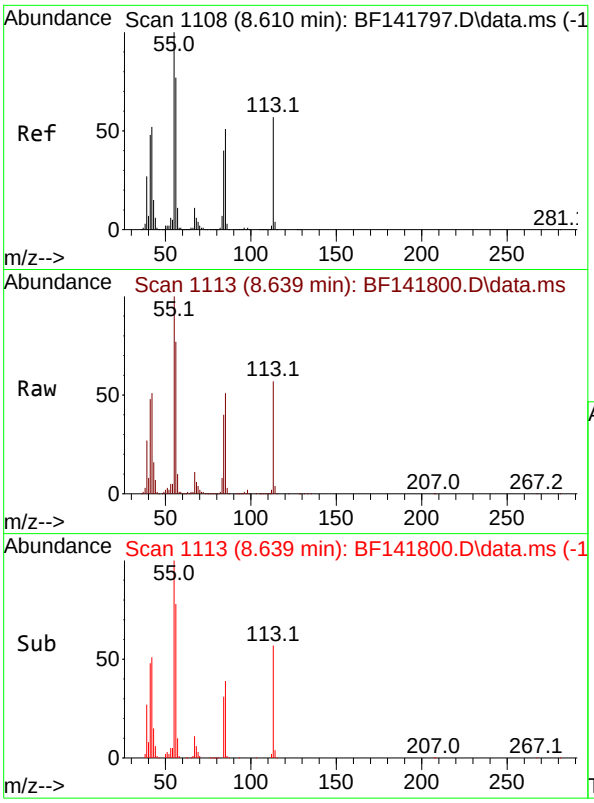


#34
Hexachlorobutadiene
Concen: 77.265 ng
RT: 8.316 min Scan# 1058
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:225 Resp: 836069

Ion	Ratio	Lower	Upper
225	100		
223	63.0	51.4	77.2
227	64.3	51.6	77.4





#35
Caprolactam
Concen: 78.359 ng
RT: 8.639 min Scan# 1
Delta R.T. 0.029 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:113 Resp: 38314

Ion	Ratio	Lower	Upper
113	100		
55	175.7	155.6	195.6
56	136.0	114.6	154.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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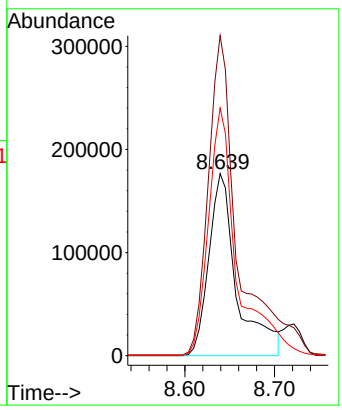
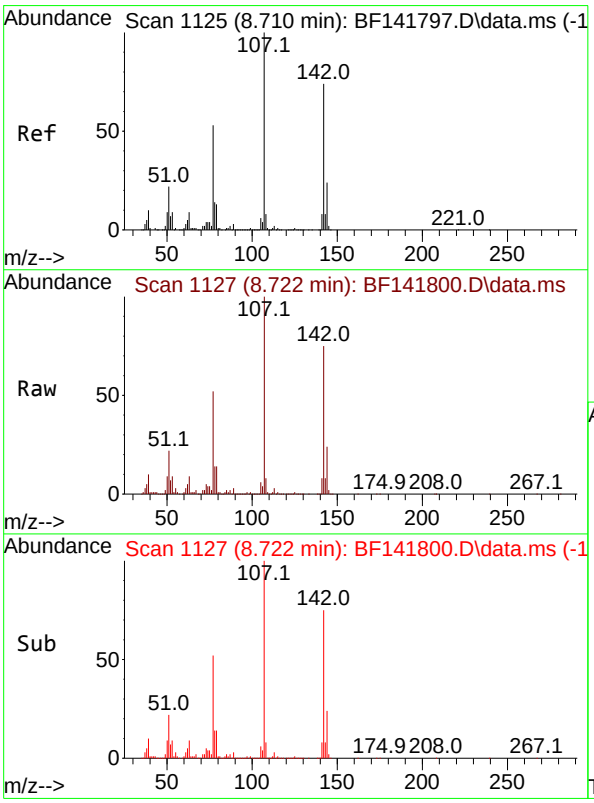
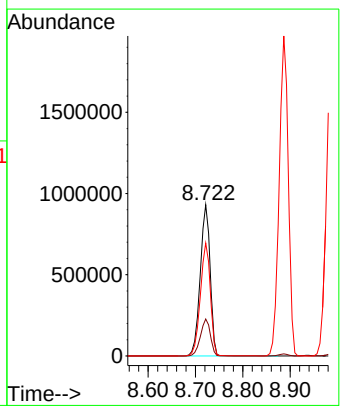


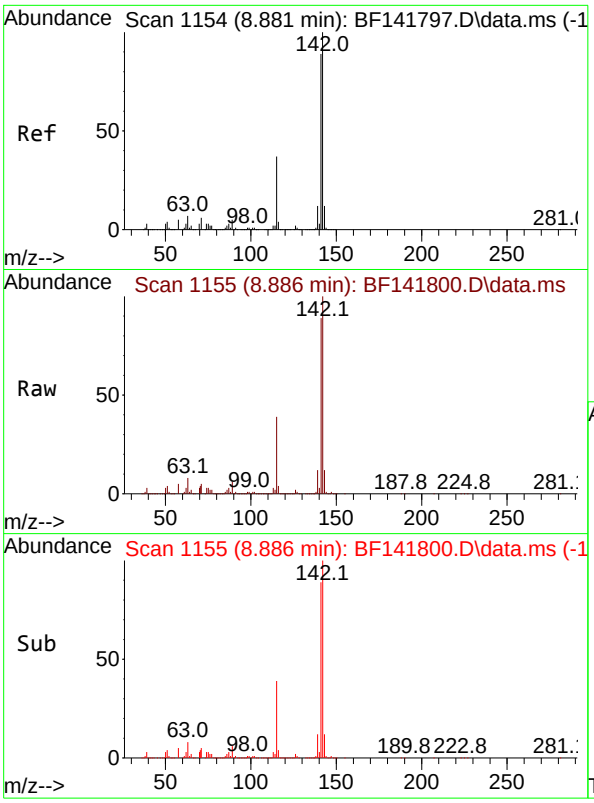


#36
4-Chloro-3-methylphenol
Concen: 76.431 ng
RT: 8.722 min Scan# 1127
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:107 Resp: 1349234

Ion	Ratio	Lower	Upper
107	100		
144	24.4	19.4	29.0
142	74.7	59.4	89.0

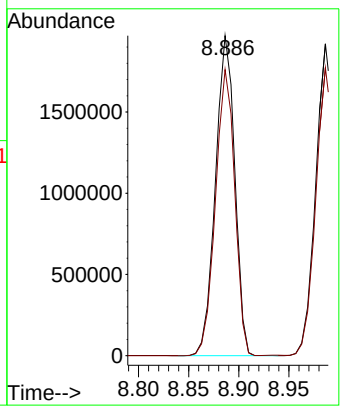




#37
2-Methylnaphthalene
Concen: 70.167 ng
RT: 8.886 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:142 Resp: 263730

Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.1	106.7



Instrument :
BNA_F
ClientSampleId :
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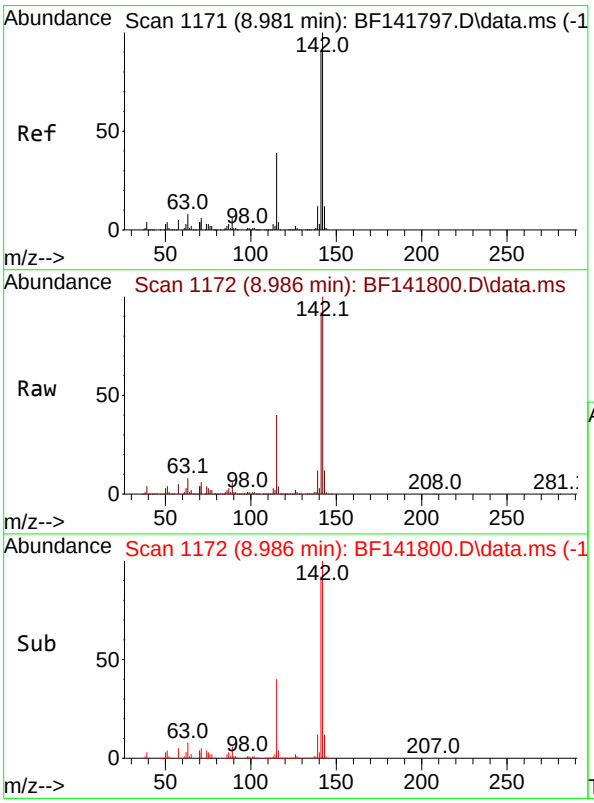
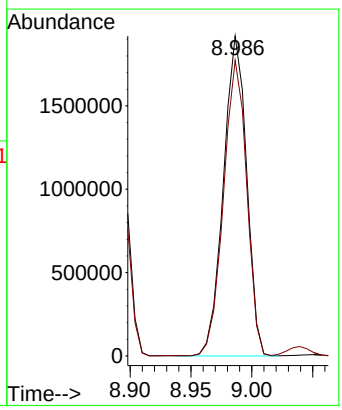
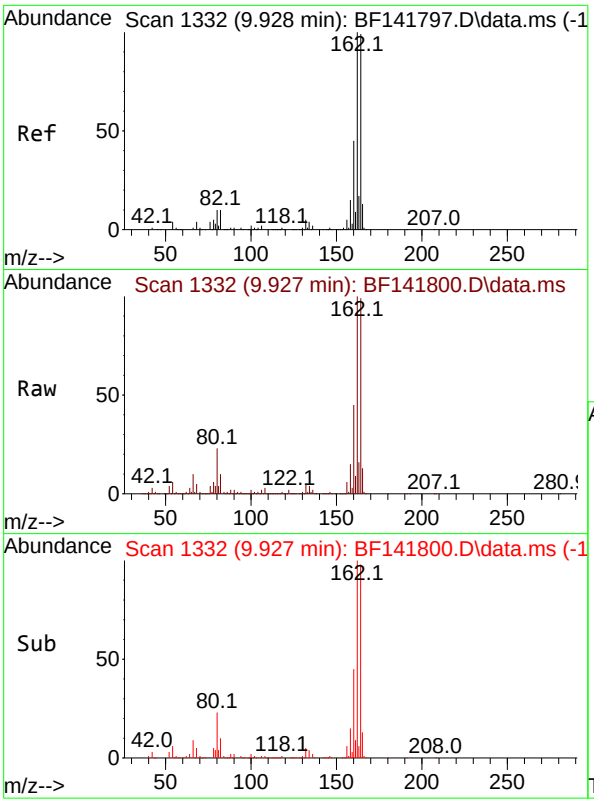


#38
1-Methylnaphthalene
Concen: 70.457 ng
RT: 8.986 min Scan# 1172
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:142 Resp: 2541019

Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.1	109.7

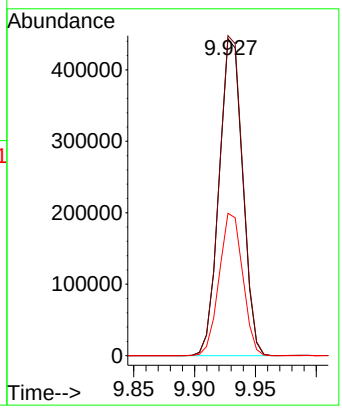




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.927 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:164 Resp: 59668

Ion	Ratio	Lower	Upper
164	100		
162	100.9	80.6	120.8
160	44.9	36.3	54.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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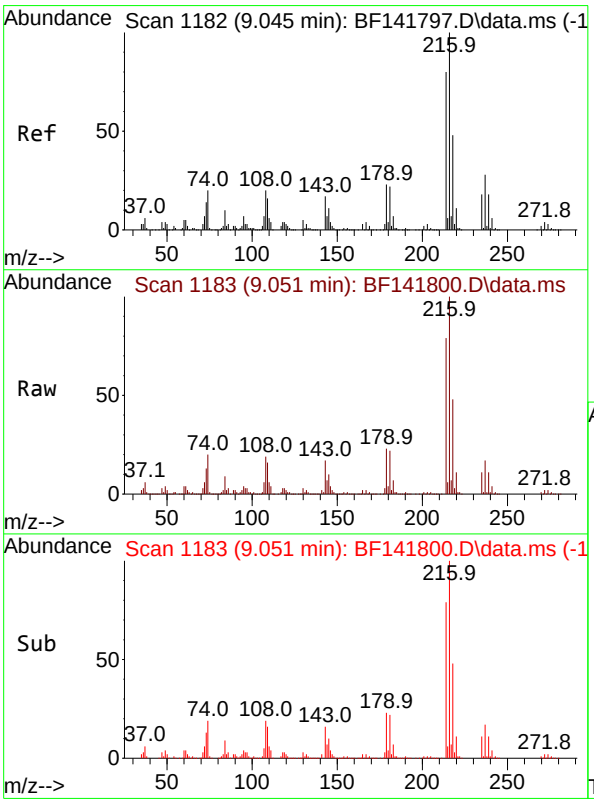
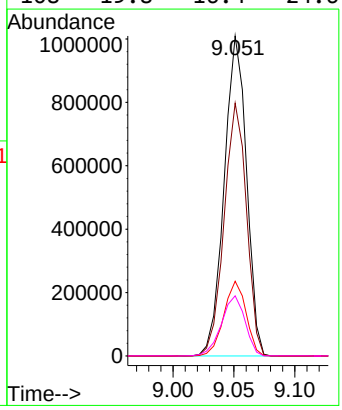
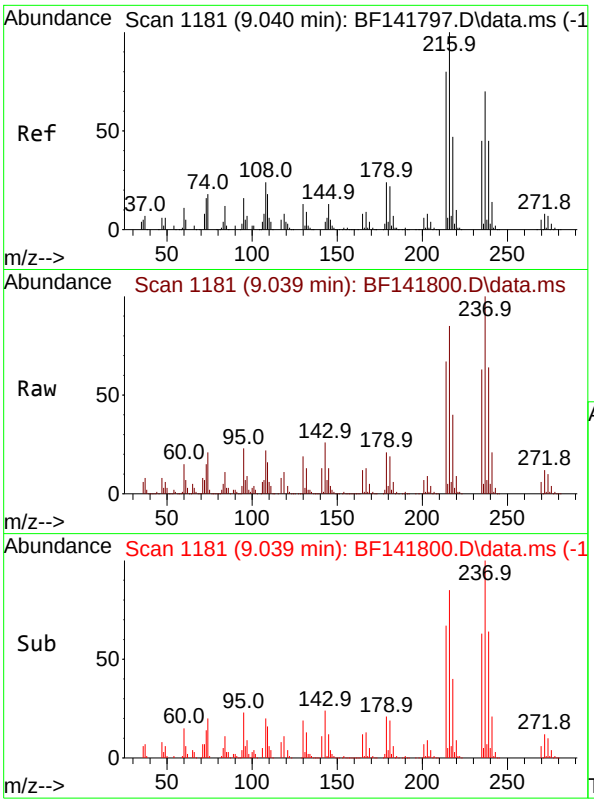


#40
1,2,4,5-Tetrachlorobenzene
Concen: 74.773 ng
RT: 9.051 min Scan# 1183
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:216 Resp: 1288540

Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.5	95.3
179	23.2	18.1	27.1
108	19.8	16.4	24.6

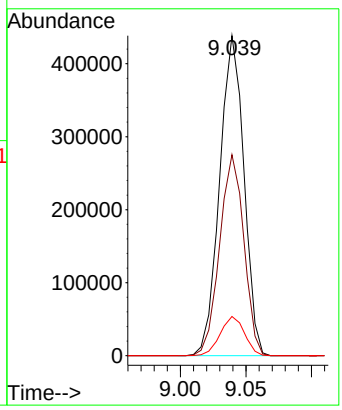




#41
Hexachlorocyclopentadiene
Concen: 78.461 ng
RT: 9.039 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:237 Resp: 56426

Ion	Ratio	Lower	Upper
237	100		
235	62.8	43.3	83.3
272	12.3	0.0	31.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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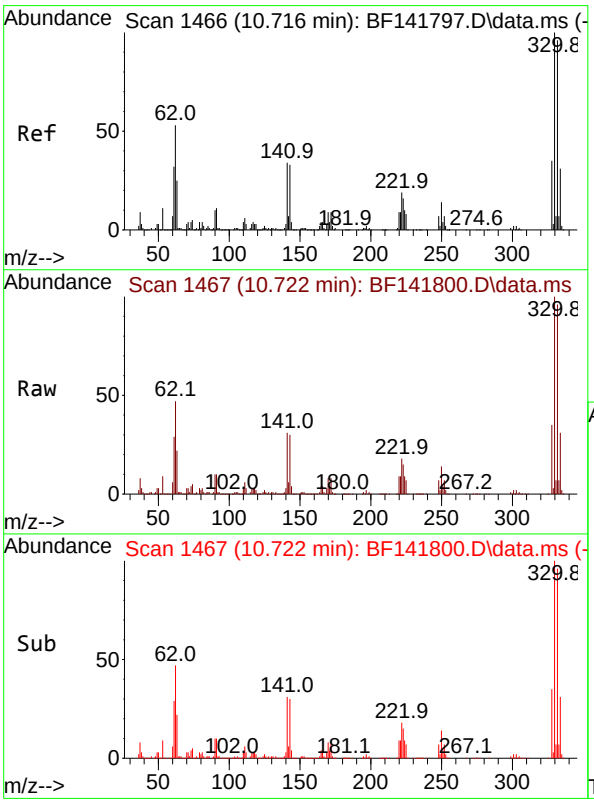
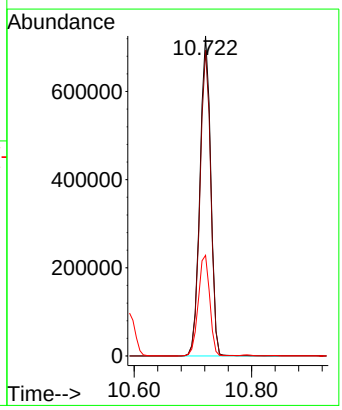
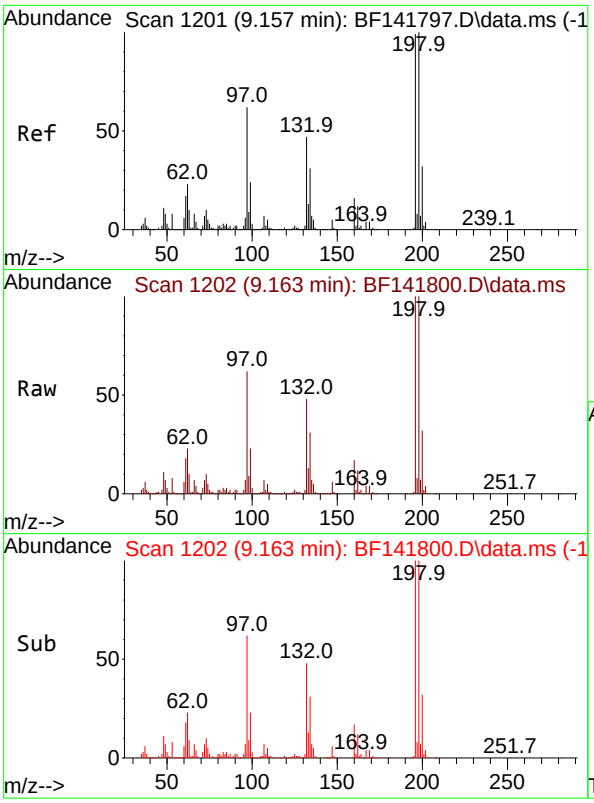


#42
2,4,6-Tribromophenol
Concen: 164.969 ng
RT: 10.722 min Scan# 1467
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:330 Resp: 924112

Ion	Ratio	Lower	Upper
330	100		
332	95.4	76.6	115.0
141	33.3	29.0	43.4

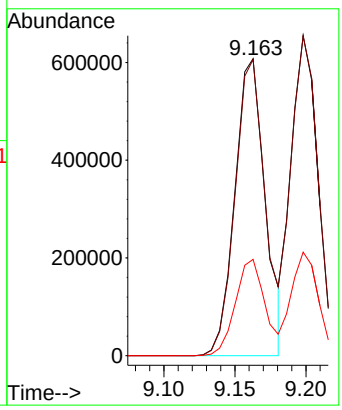




#43
2,4,6-Trichlorophenol
Concen: 80.742 ng
RT: 9.163 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:196 Resp: 89879

Ion	Ratio	Lower	Upper
196	100		
198	99.7	80.4	120.6
200	32.4	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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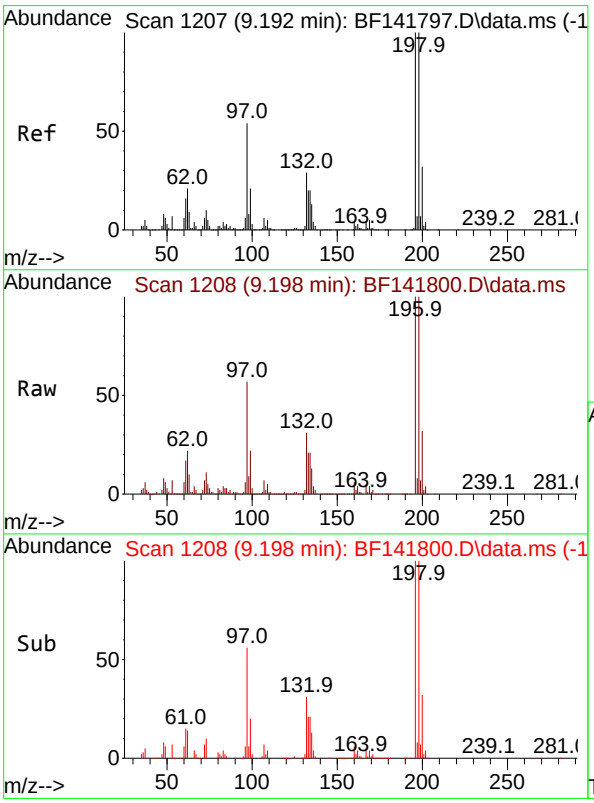
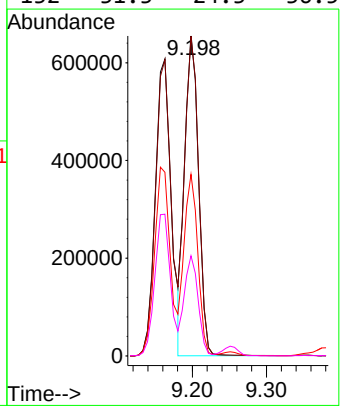
Supervised By :mohammad ahmed 02/28/2025

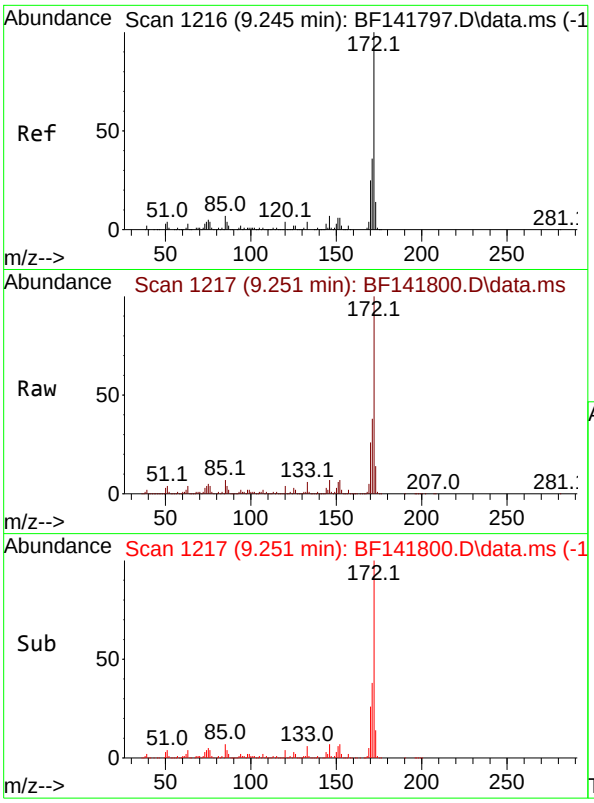


#44
2,4,5-Trichlorophenol
Concen: 77.984 ng
RT: 9.198 min Scan# 1208
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:196 Resp: 859610

Ion	Ratio	Lower	Upper
196	100		
198	99.9	79.7	119.5
97	56.8	44.2	66.2
132	31.3	24.3	36.5

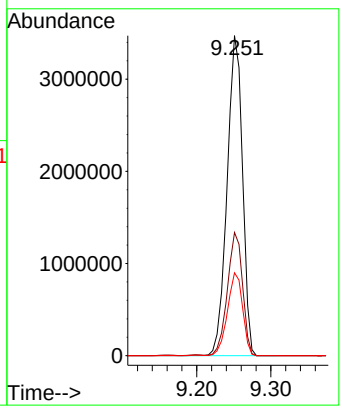




#45
2-Fluorobiphenyl
Concen: 134.541 ng
RT: 9.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:172 Resp: 500660

Ion	Ratio	Lower	Upper
172	100		
171	38.5	29.2	43.8
170	25.9	19.7	29.5



Instrument :
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ClientSampleId :
SSTDICC080

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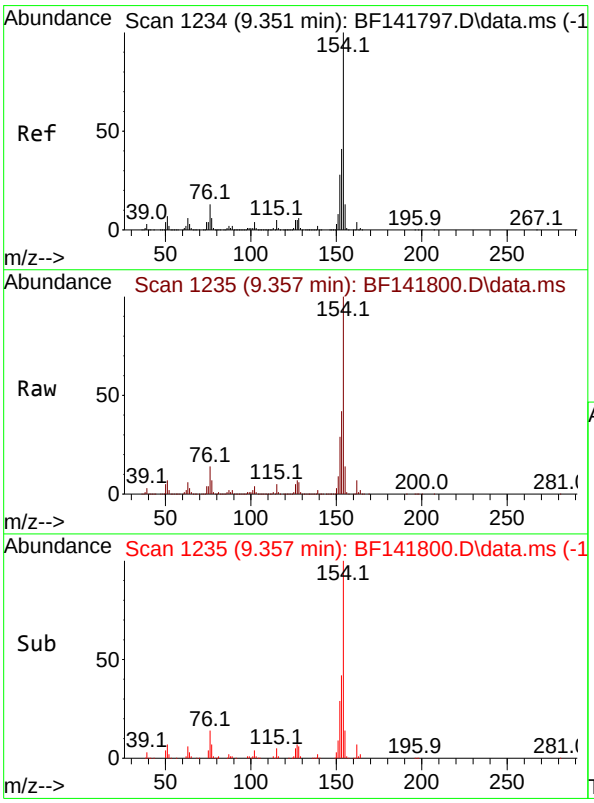
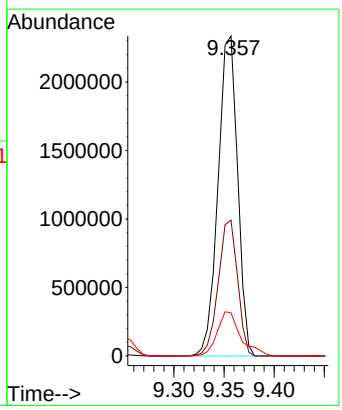
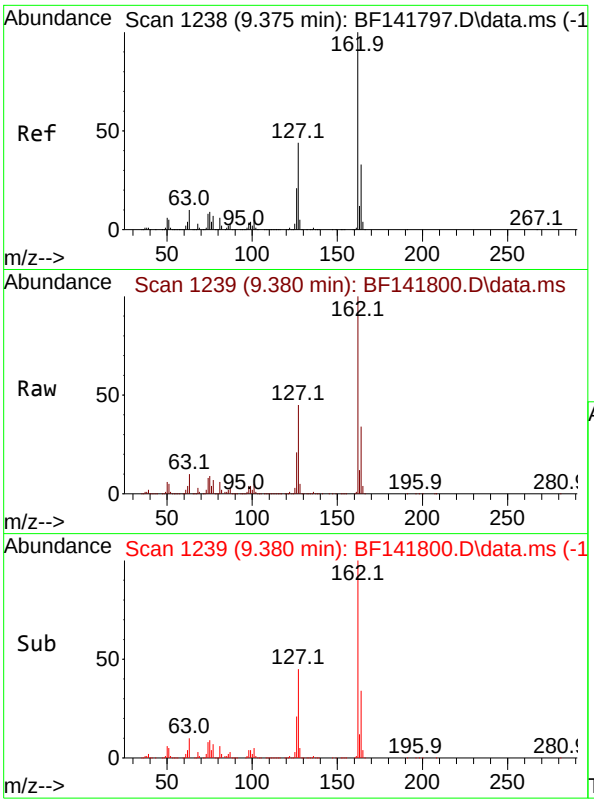


#46
1,1'-Biphenyl
Concen: 69.499 ng
RT: 9.357 min Scan# 1235
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:154 Resp: 3156440

Ion	Ratio	Lower	Upper
154	100		
153	42.4	21.4	61.4
76	13.5	0.0	33.4

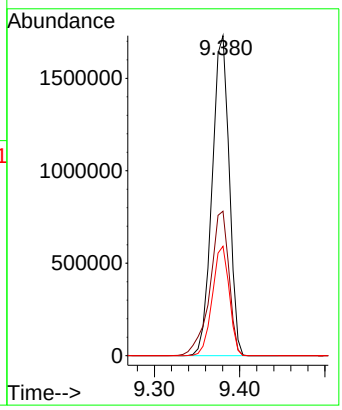




#47
2-Chloronaphthalene
Concen: 71.641 ng
RT: 9.380 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:162 Resp: 240146

Ion	Ratio	Lower	Upper
162	100		
127	45.2	35.0	52.6
164	34.2	26.6	40.0



Instrument :
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ClientSampleId :
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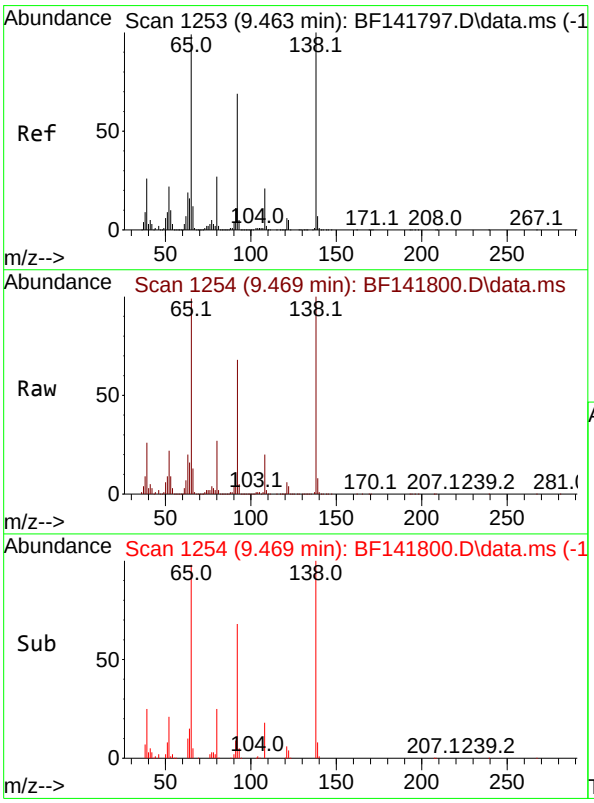
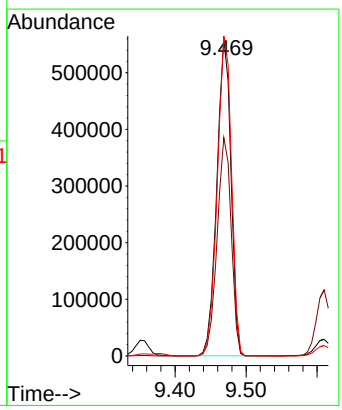
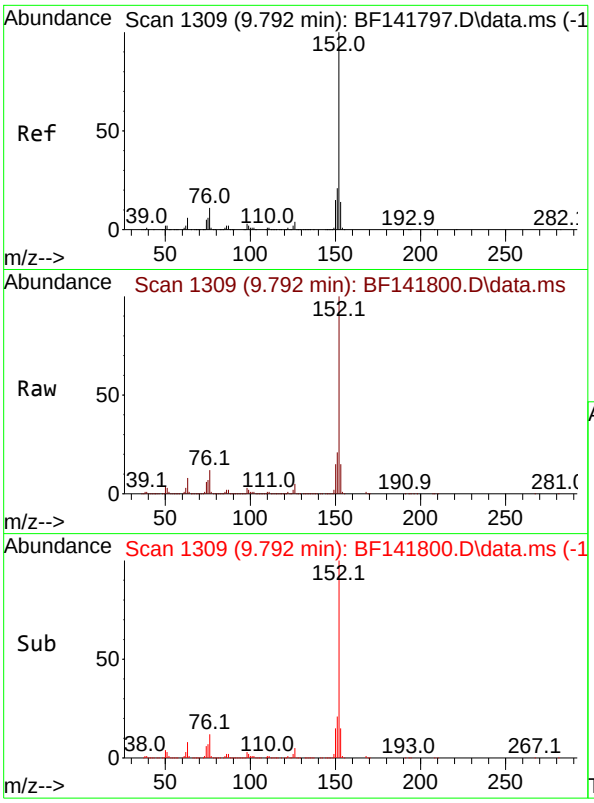


#48
2-Nitroaniline
Concen: 80.727 ng
RT: 9.469 min Scan# 1254
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 65 Resp: 770567

Ion	Ratio	Lower	Upper
65	100		
92	68.7	55.7	83.5
138	100.7	80.6	121.0

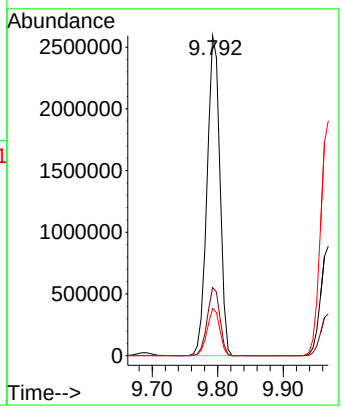




#49
Acenaphthylene
Concen: 69.880 ng
RT: 9.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:152 Resp: 351207

Ion	Ratio	Lower	Upper
152	100		
151	21.3	16.6	24.8
153	14.7	11.2	16.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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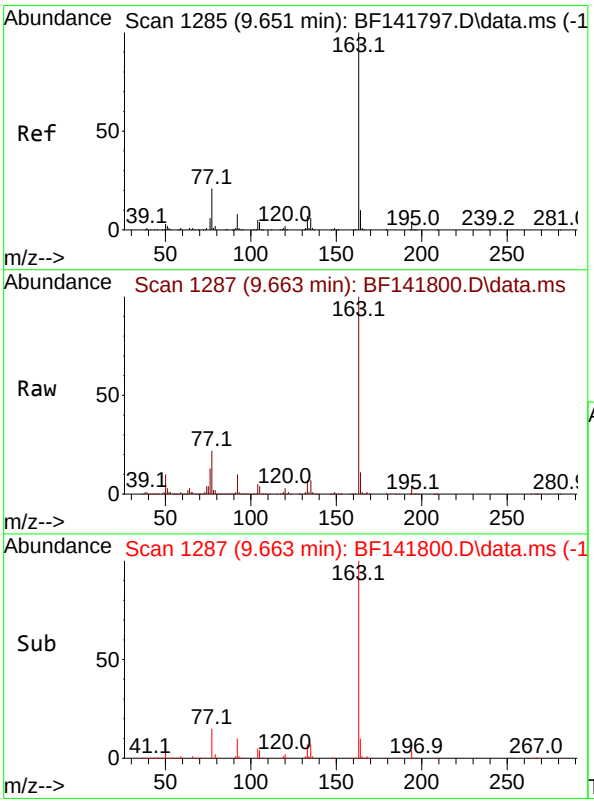
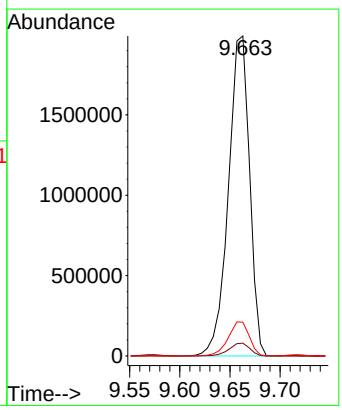
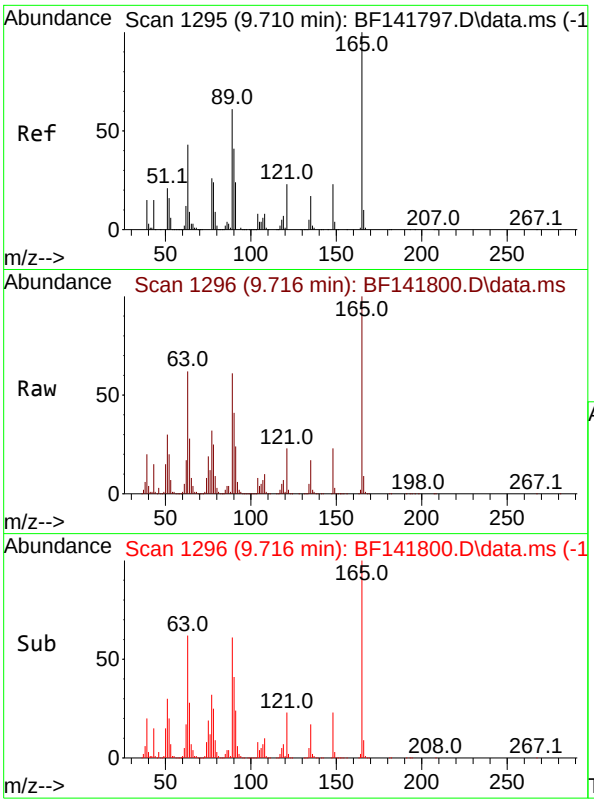


#50
Dimethylphthalate
Concen: 73.107 ng
RT: 9.663 min Scan# 1287
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:163 Resp: 2921217

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.5	8.4	12.6





#51
2,6-Dinitrotoluene
Concen: 79.481 ng
RT: 9.716 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:165 Resp: 62262

Ion	Ratio	Lower	Upper
165	100		
63	61.9	49.5	74.3
89	61.1	49.0	73.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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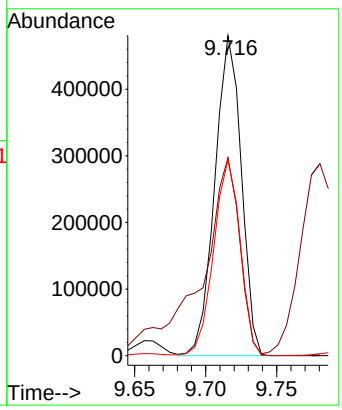
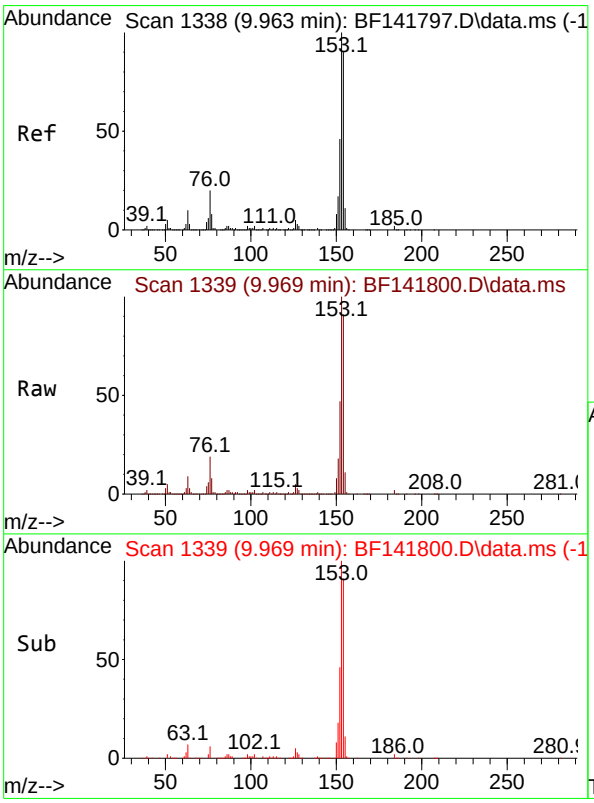
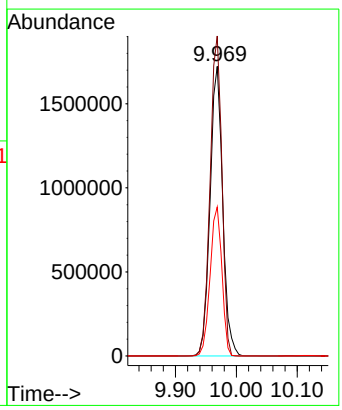


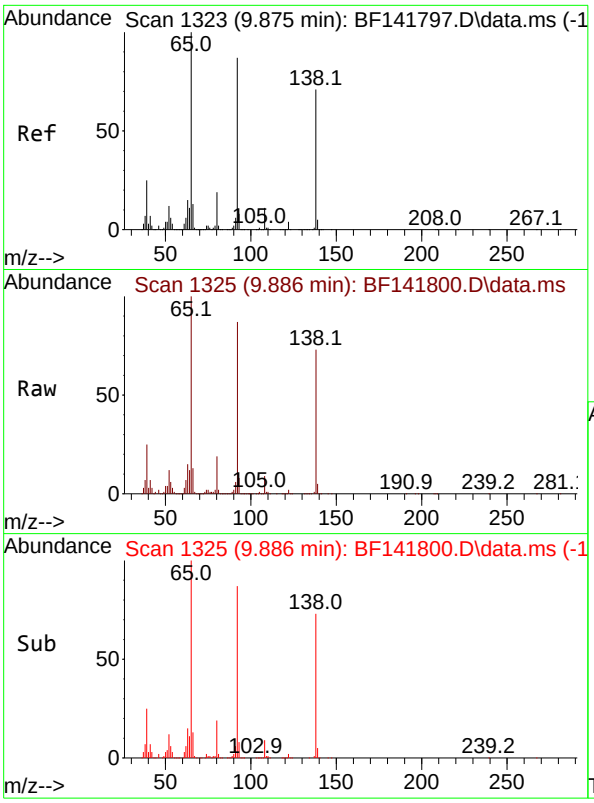


#52
Acenaphthene
Concen: 73.139 ng
RT: 9.969 min Scan# 1339
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:154 Resp: 2480302

Ion	Ratio	Lower	Upper
154	100		
153	110.5	88.7	133.1
152	51.5	40.9	61.3





#53
3-Nitroaniline
Concen: 79.835 ng
RT: 9.886 min Scan# 1
Delta R.T. 0.011 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:138 Resp: 66711

Ion	Ratio	Lower	Upper
138	100		
108	13.0	12.7	19.1
92	120.1	97.9	146.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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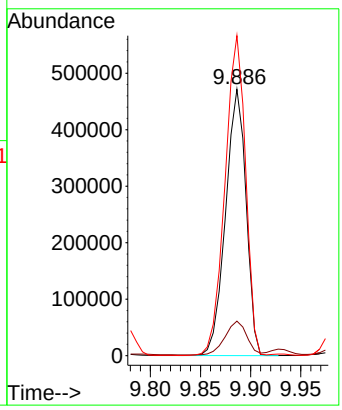
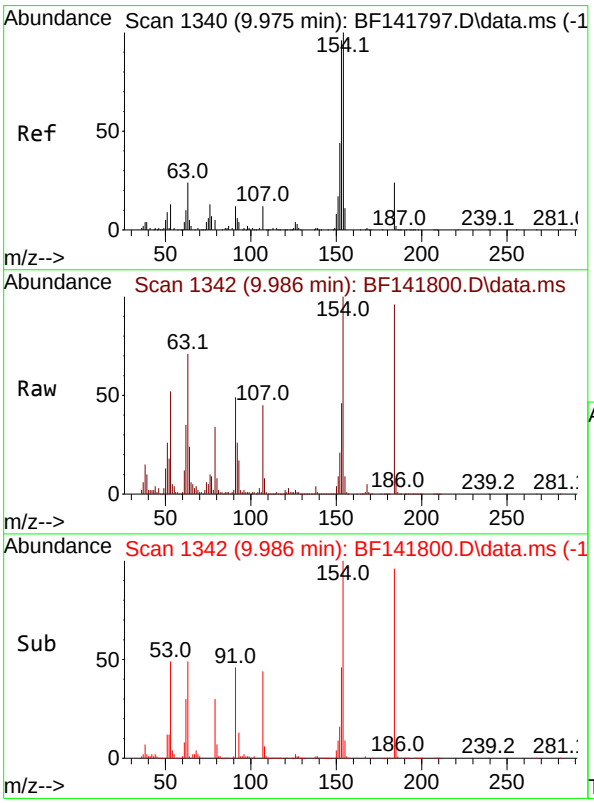
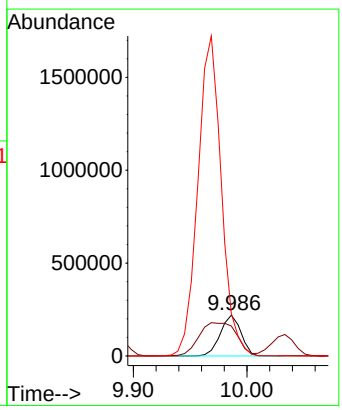


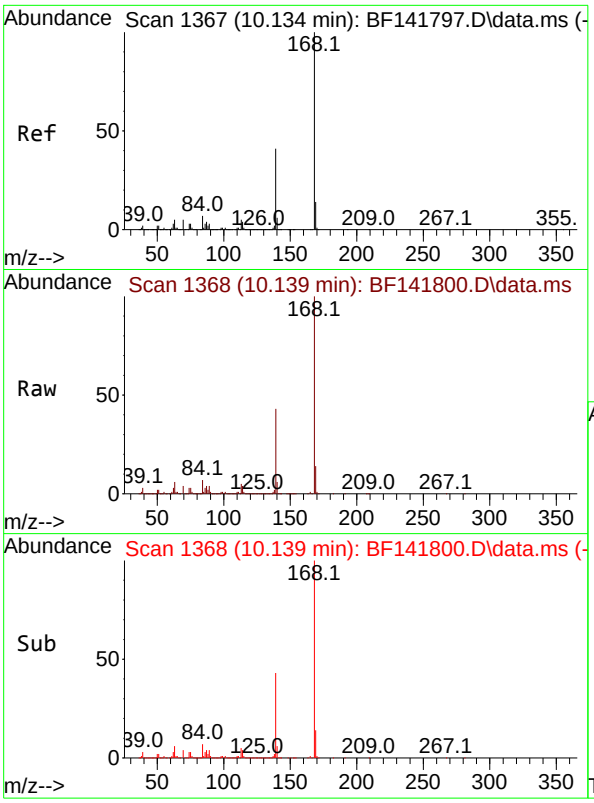


#54
2,4-Dinitrophenol
Concen: 79.409 ng
RT: 9.986 min Scan# 1342
Delta R.T. 0.011 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:184 Resp: 277943

Ion	Ratio	Lower	Upper
184	100		
63	73.4	79.0	118.6#
154	103.9	335.8	503.8#





#55
Dibenzofuran
Concen: 69.448 ng
RT: 10.139 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:168 Resp: 342789

Ion	Ratio	Lower	Upper
168	100		
139	42.7	32.9	49.3
169	14.3	11.1	16.7

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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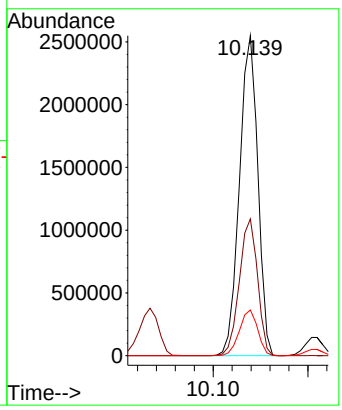
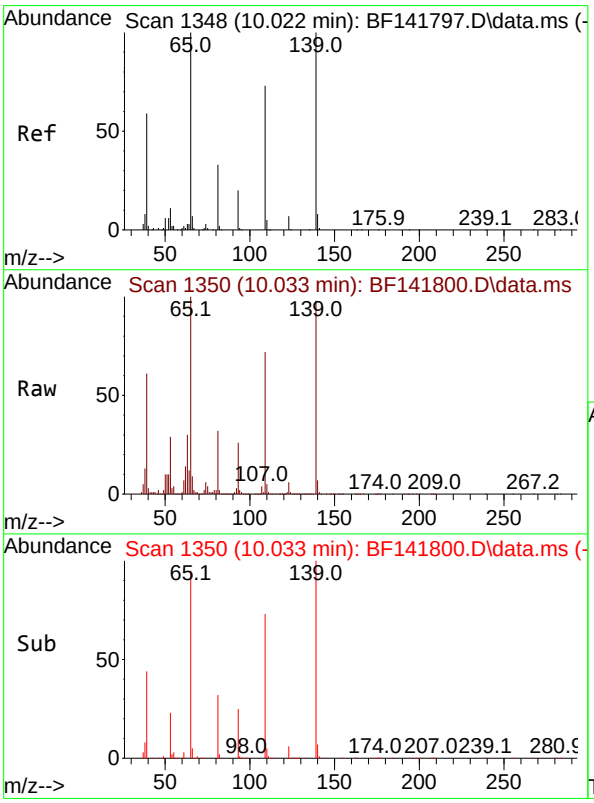
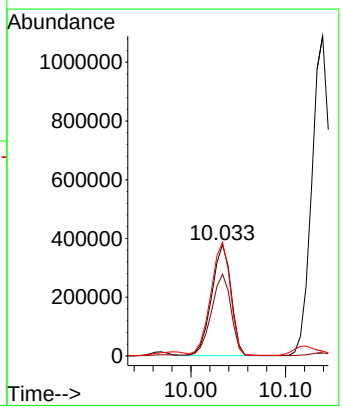


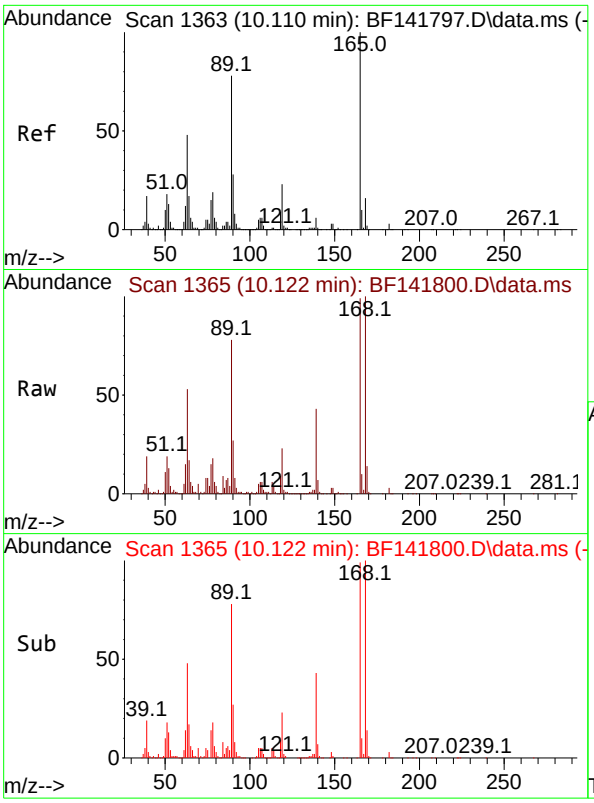


#56
4-Nitrophenol
Concen: 91.723 ng
RT: 10.033 min Scan# 1350
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:139 Resp: 541317

Ion	Ratio	Lower	Upper
139	100		
109	73.6	53.4	93.4
65	102.2	82.1	122.1

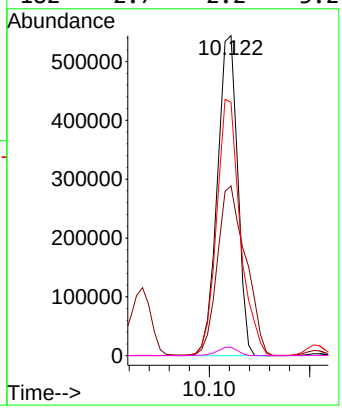




#57
2,4-Dinitrotoluene
Concen: 79.344 ng
RT: 10.122 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:165 Resp: 76401

Ion	Ratio	Lower	Upper
165	100		
63	53.1	38.8	58.2
89	79.2	62.6	94.0
182	2.7	2.2	3.2



Instrument :
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ClientSampleId :
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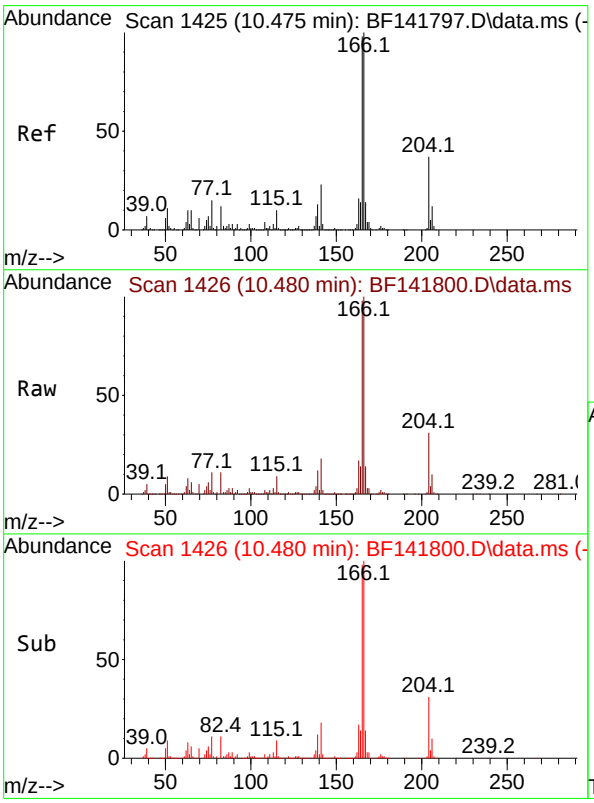
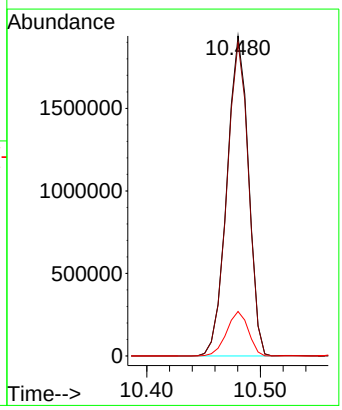
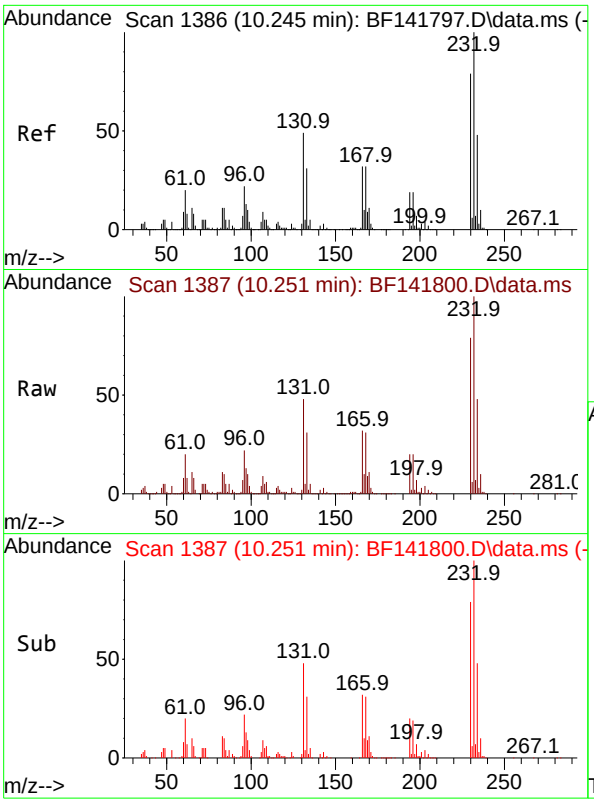


#58
Fluorene
Concen: 69.170 ng
RT: 10.480 min Scan# 1426
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:166 Resp: 2557382

Ion	Ratio	Lower	Upper
166	100		
165	98.0	78.6	117.8
167	13.9	11.0	16.4

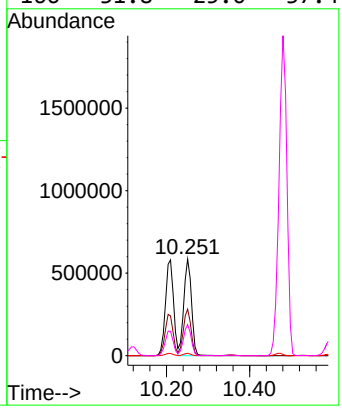




#59
2,3,4,6-Tetrachlorophenol
Concen: 78.537 ng
RT: 10.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:232 Resp: 75291

Ion	Ratio	Lower	Upper
232	100		
131	47.5	37.8	56.8
130	2.4	2.0	3.0
166	31.8	25.0	37.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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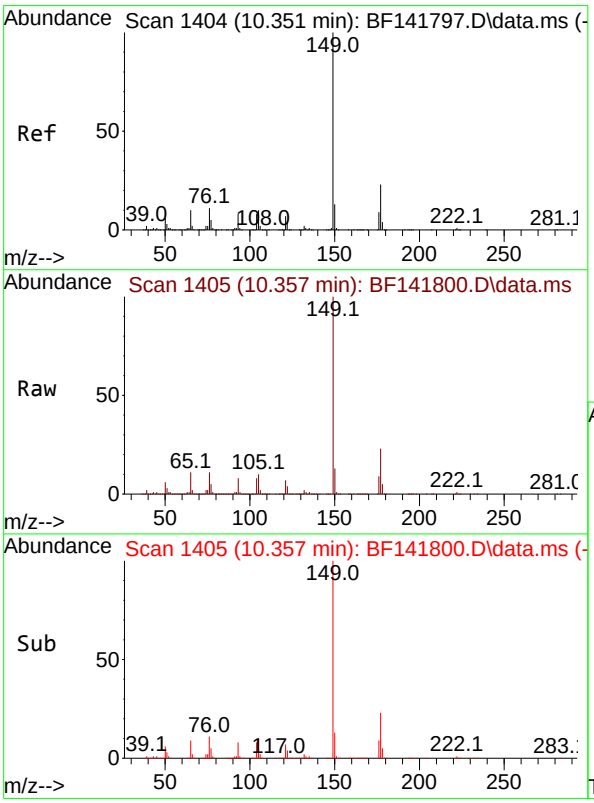
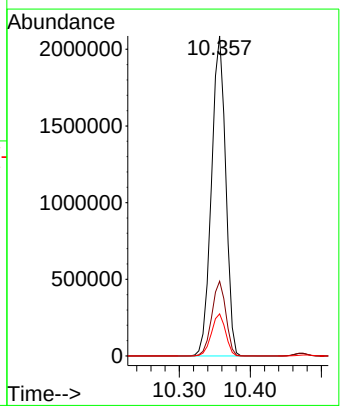
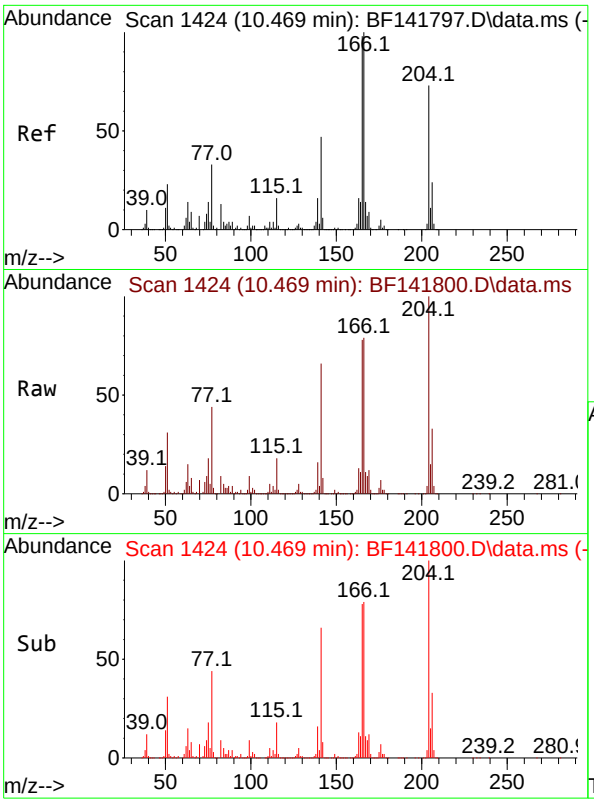


#60
Diethylphthalate
Concen: 72.232 ng
RT: 10.357 min Scan# 1405
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:149 Resp: 2893471

Ion	Ratio	Lower	Upper
149	100		
177	23.3	18.3	27.5
150	13.2	10.3	15.5





#61
4-Chlorophenyl-phenylether
Concen: 72.414 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:204 Resp: 134144

Ion	Ratio	Lower	Upper
204	100		
206	33.0	26.2	39.4
141	65.7	51.7	77.5

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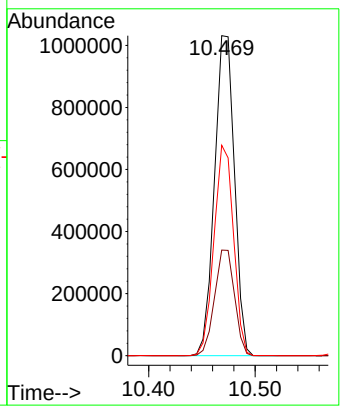
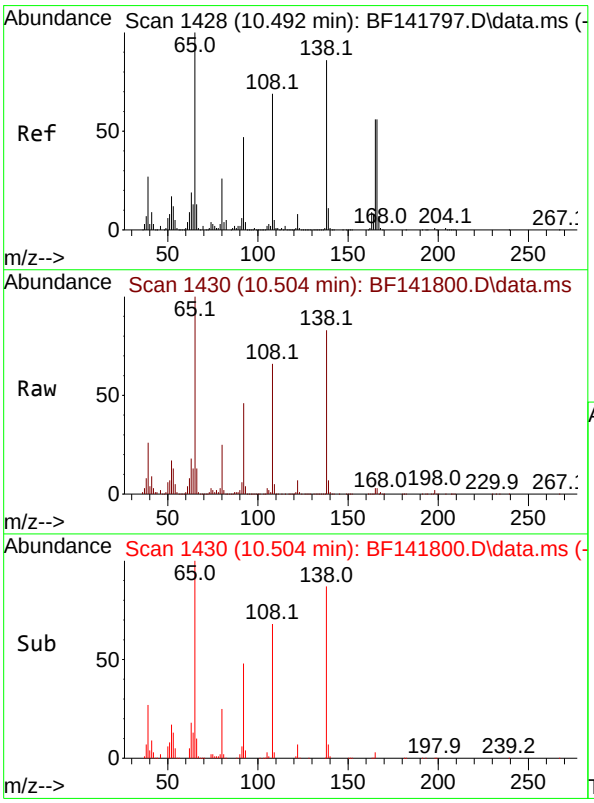
Supervised By :mohammad ahmed 02/28/2025

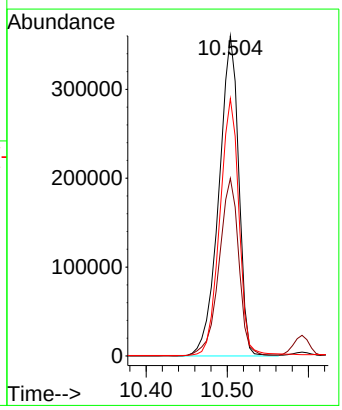


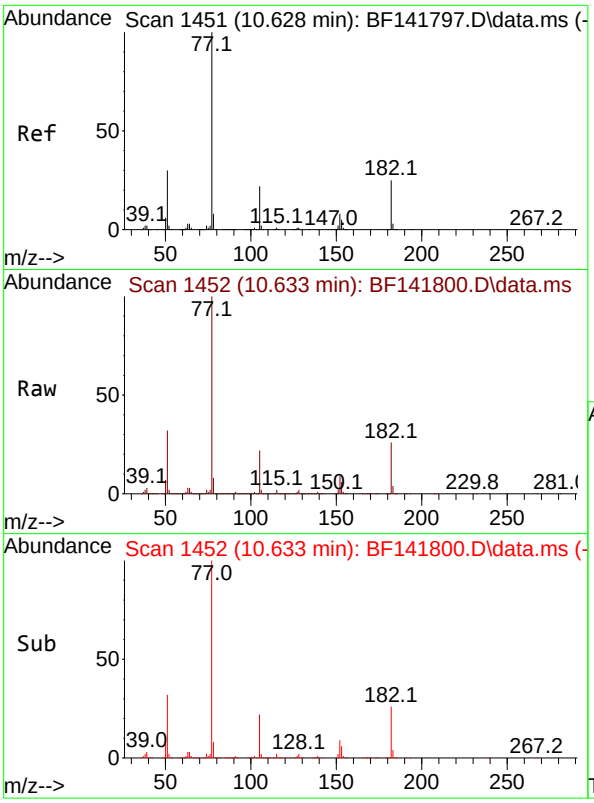


#62
4-Nitroaniline
Concen: 89.663 ng
RT: 10.504 min Scan# 1430
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:138 Resp: 611855

Ion	Ratio	Lower	Upper
138	100		
92	55.5	34.9	74.9
108	80.4	59.6	99.6

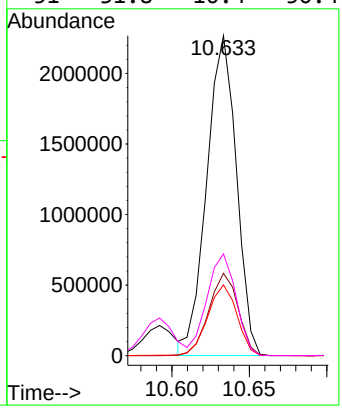




#63
Azobenzene
Concen: 71.441 ng
RT: 10.633 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 77 Resp: 301318

Ion	Ratio	Lower	Upper
77	100		
182	25.7	4.2	44.2
105	22.1	1.5	41.5
51	31.8	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
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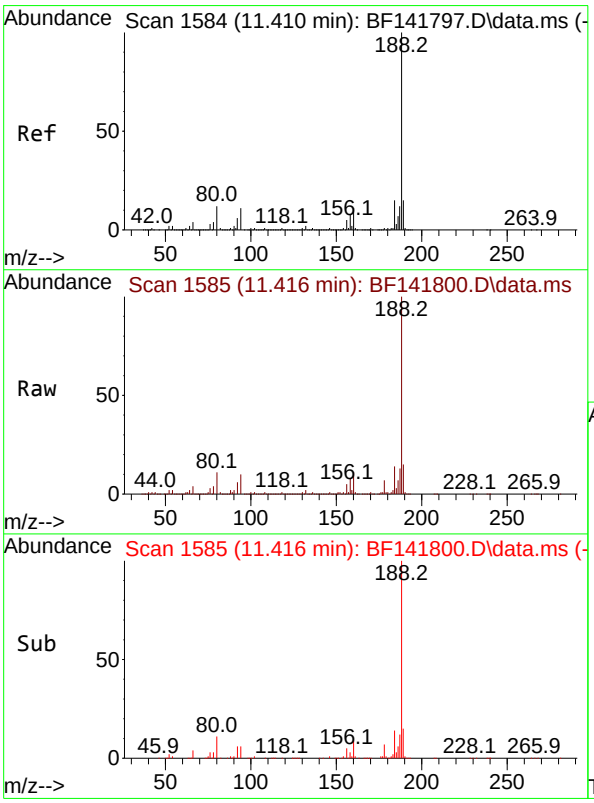
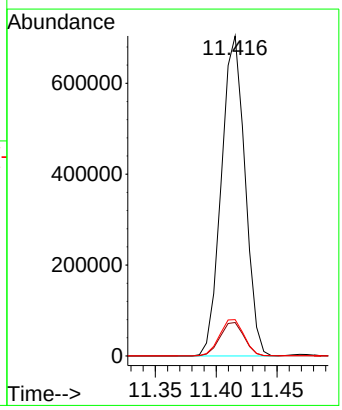
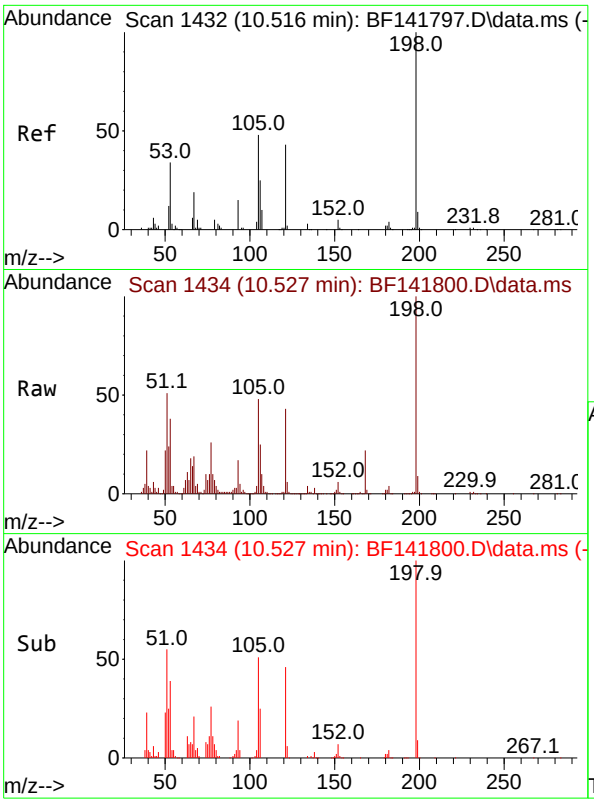


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1585
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:188 Resp: 953117

Ion	Ratio	Lower	Upper
188	100		
94	10.4	8.9	13.3
80	11.4	9.7	14.5





#65
4,6-Dinitro-2-methylphenol
Concen: 80.929 ng
RT: 10.527 min Scan# 14
Delta R.T. 0.011 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:198 Resp: 39334

Ion	Ratio	Lower	Upper
198	100		
51	50.9	32.1	72.1
105	47.7	28.5	68.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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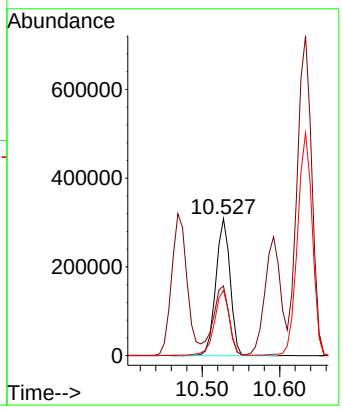
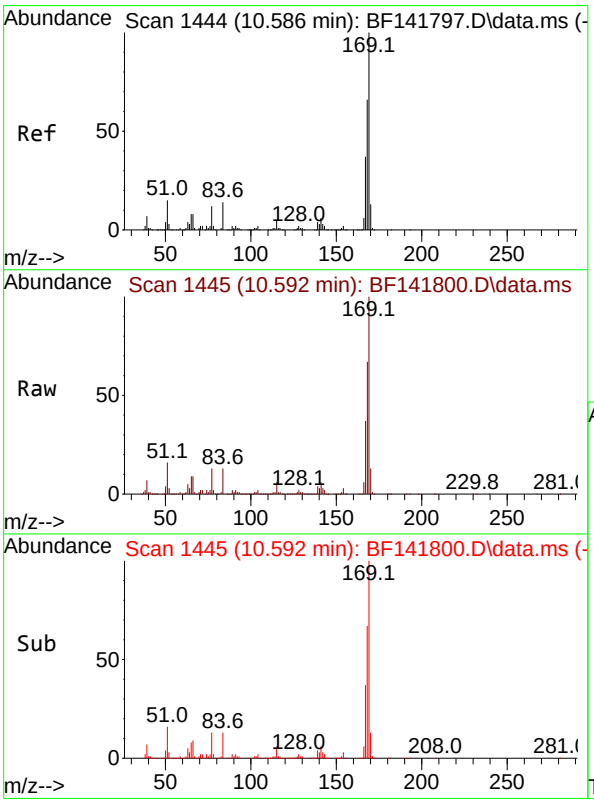
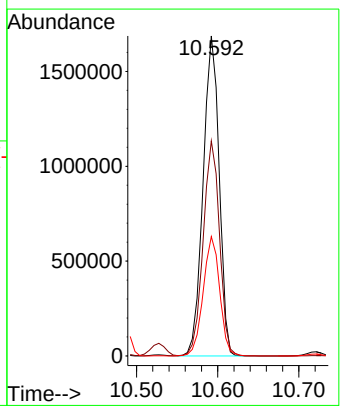


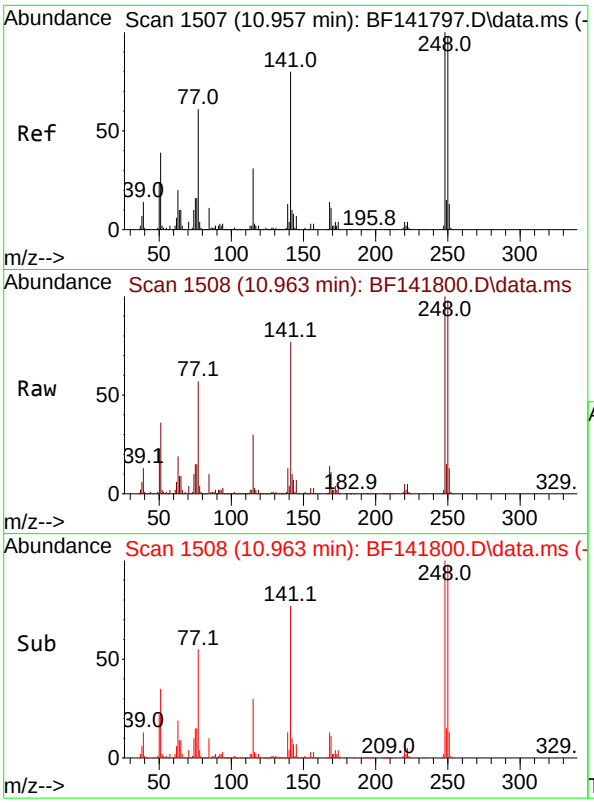


#66
n-Nitrosodiphenylamine
Concen: 73.923 ng
RT: 10.592 min Scan# 1445
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:169 Resp: 2313580

Ion	Ratio	Lower	Upper
169	100		
168	67.2	53.0	79.6
167	37.3	29.3	43.9

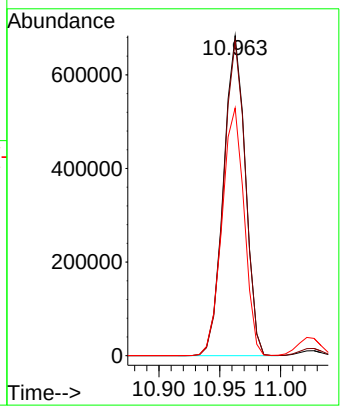




#67
4-Bromophenyl-phenylether
Concen: 76.550 ng
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:248 Resp: 85221

Ion	Ratio	Lower	Upper
248	100		
250	98.3	78.1	117.1
141	77.4	64.3	96.5



Instrument :
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ClientSampleId :
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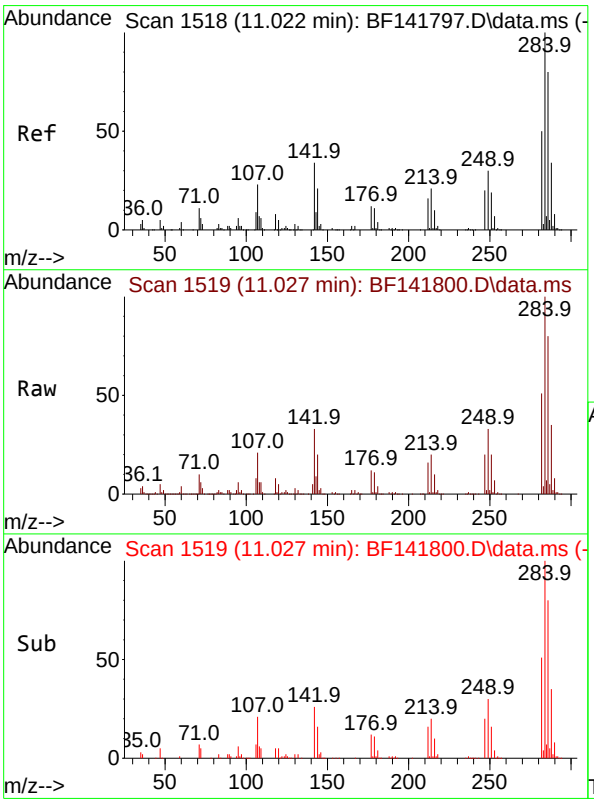
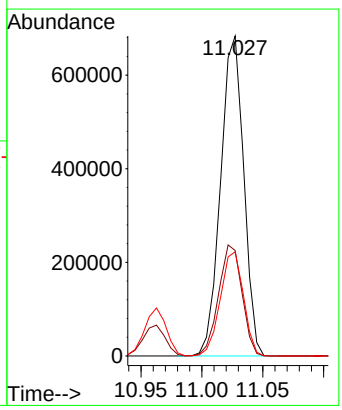
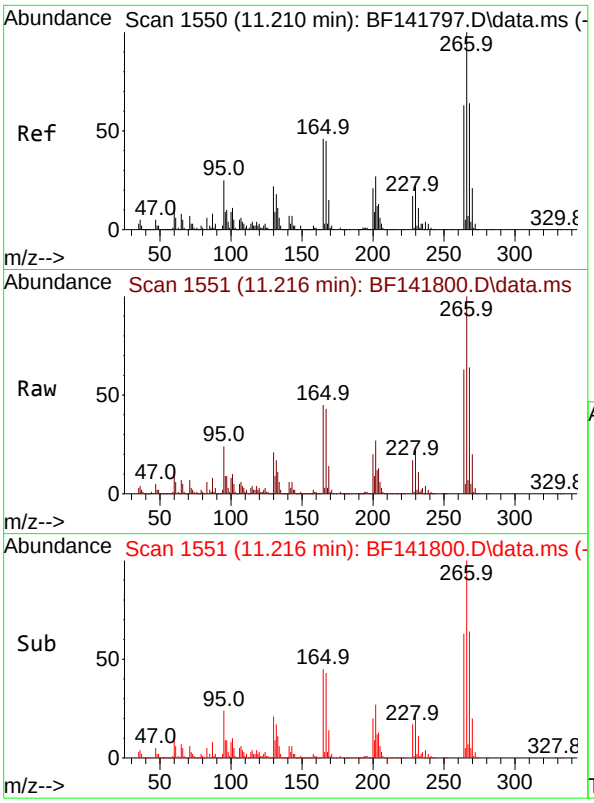


#68
Hexachlorobenzene
Concen: 76.782 ng
RT: 11.027 min Scan# 1519
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:284 Resp: 902644

Ion	Ratio	Lower	Upper
284	100		
142	33.0	28.2	42.2
249	32.5	25.5	38.3

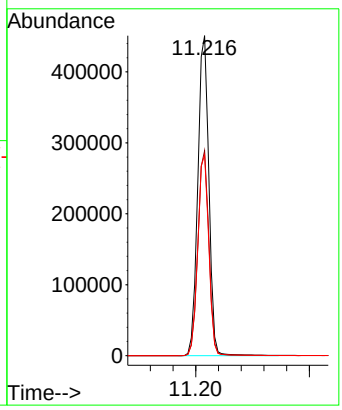




#70
Pentachlorophenol
Concen: 81.849 ng
RT: 11.216 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:266 Resp: 61026

Ion	Ratio	Lower	Upper
266	100		
268	64.0	50.9	76.3
264	62.8	50.2	75.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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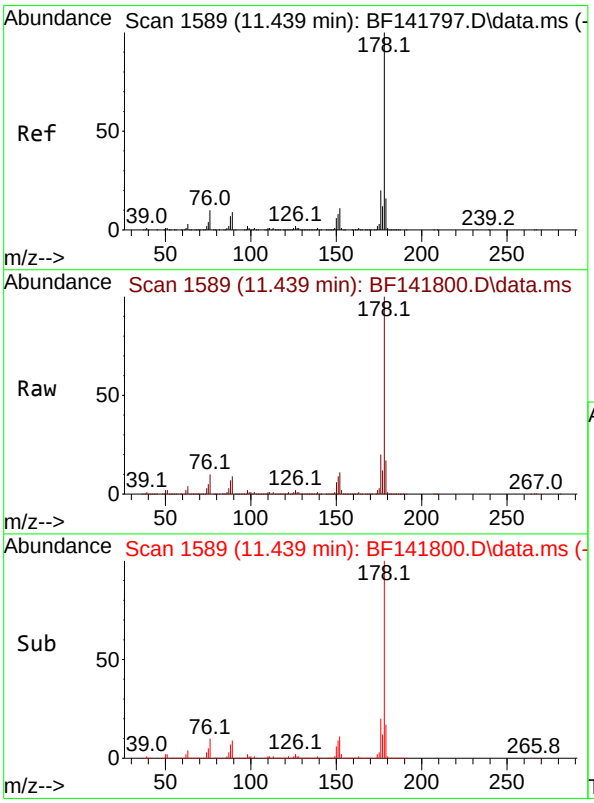
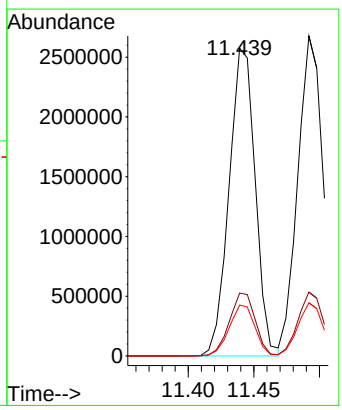
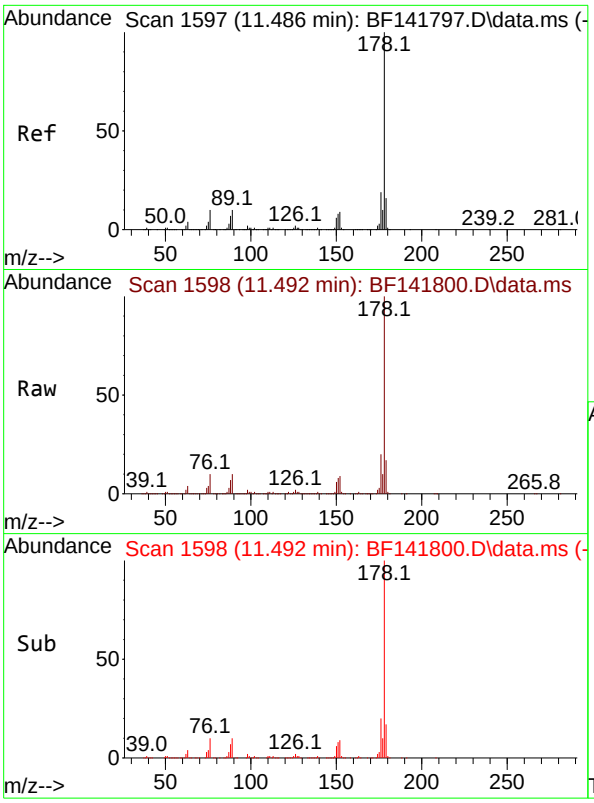


#71
Phenanthrene
Concen: 70.307 ng
RT: 11.439 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:178 Resp: 3584436

Ion	Ratio	Lower	Upper
178	100		
176	20.4	16.0	24.0
179	16.5	12.6	19.0

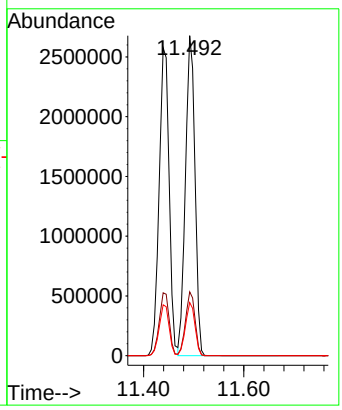




#72
Anthracene
Concen: 69.487 ng
RT: 11.492 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:178 Resp: 355048

Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.4	23.0
179	16.6	12.8	19.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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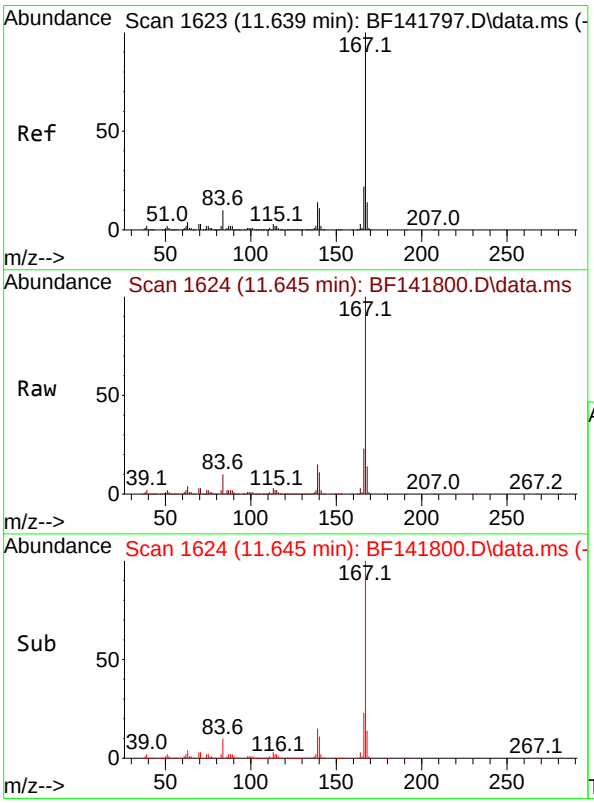
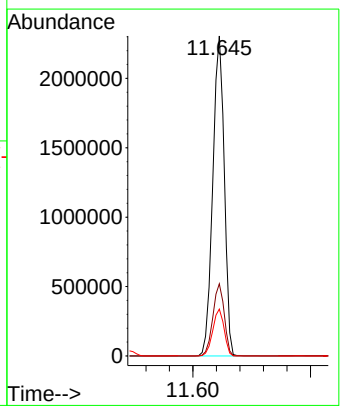
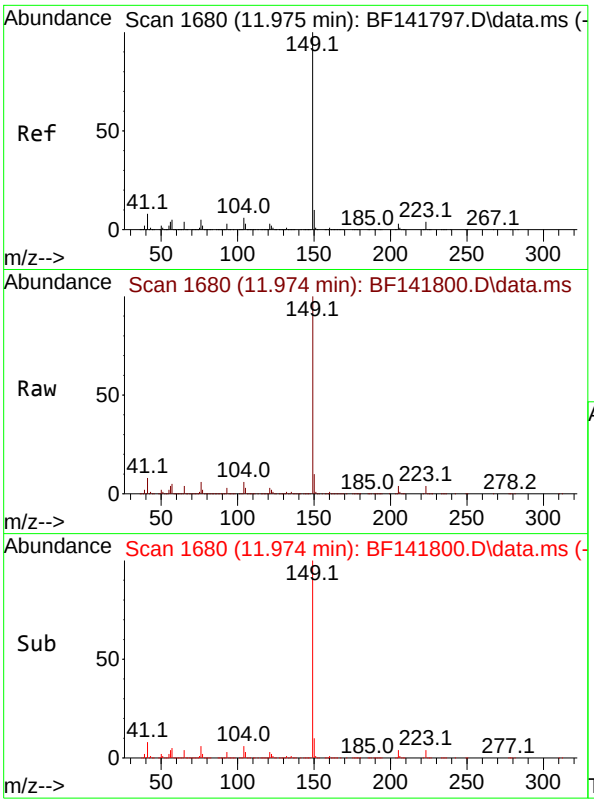


#73
Carbazole
Concen: 69.380 ng
RT: 11.645 min Scan# 1624
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:167 Resp: 3130504

Ion	Ratio	Lower	Upper
167	100		
166	22.6	17.5	26.3
139	14.7	11.3	16.9

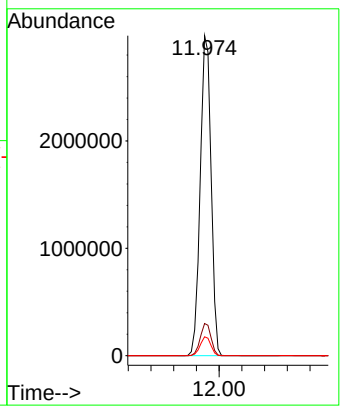




#74
Di-n-butylphthalate
Concen: 68.971 ng
RT: 11.974 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:149 Resp: 394481

Ion	Ratio	Lower	Upper
149	100		
150	10.1	7.7	11.5
104	5.9	4.4	6.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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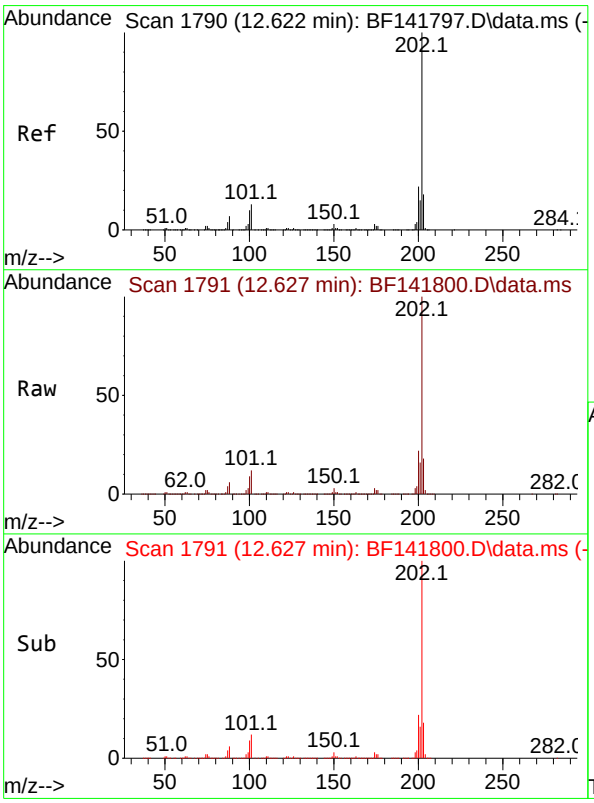
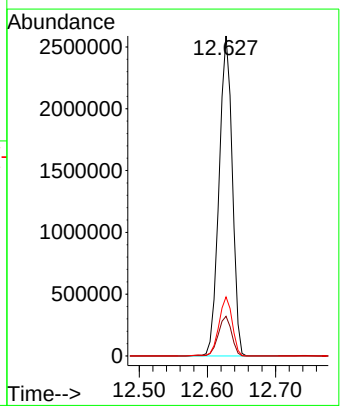
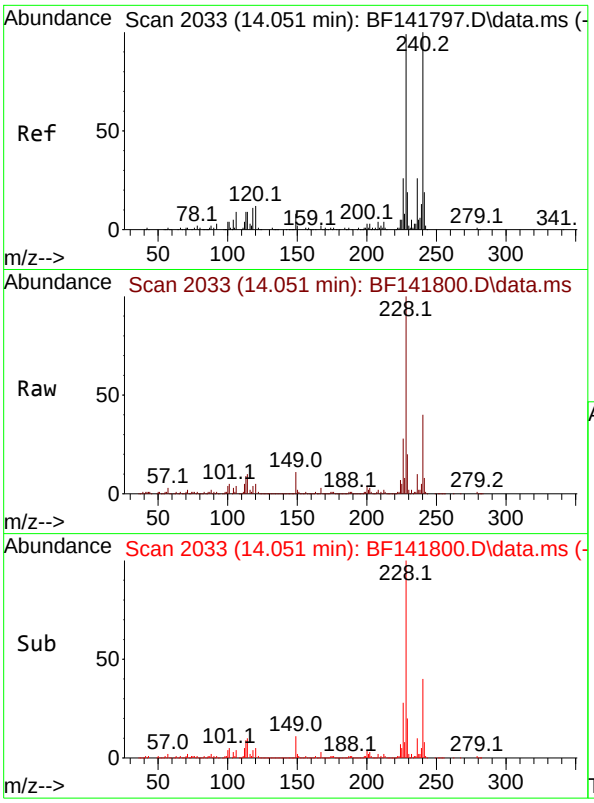


#75
Fluoranthene
Concen: 66.922 ng
RT: 12.627 min Scan# 1791
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:202 Resp: 3496011

Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	32.8
203	18.5	0.0	38.0





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2(
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:240 Resp: 52320(

Ion	Ratio	Lower	Upper
240	100		
120	12.6	9.7	14.5
236	26.0	21.0	31.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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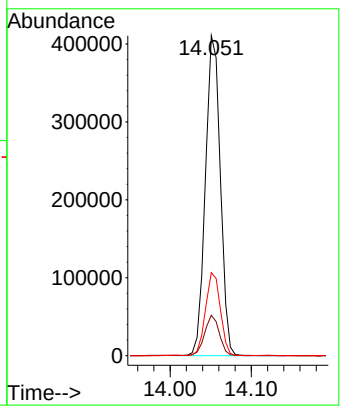
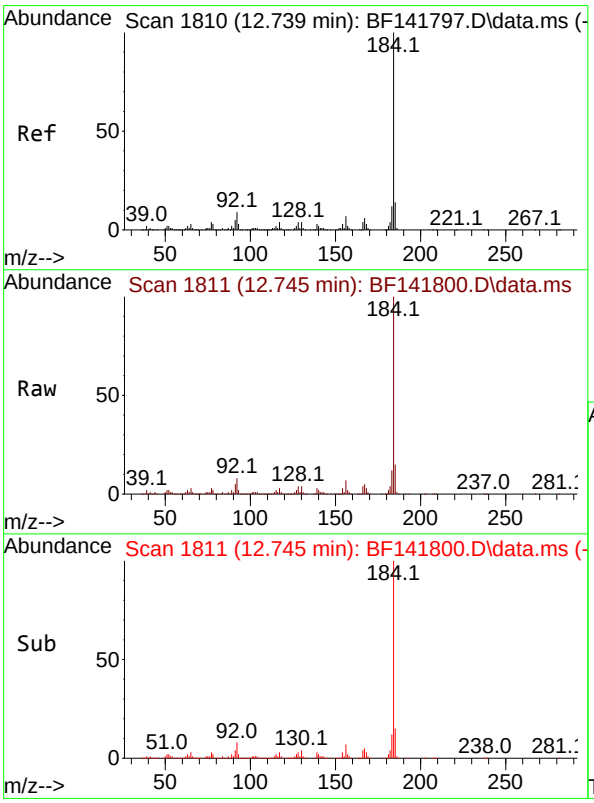
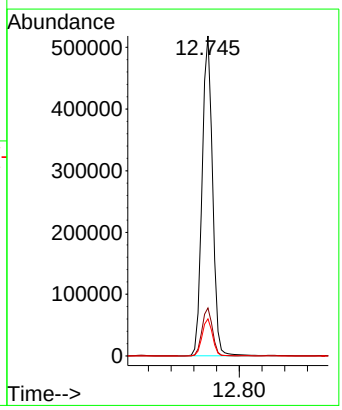


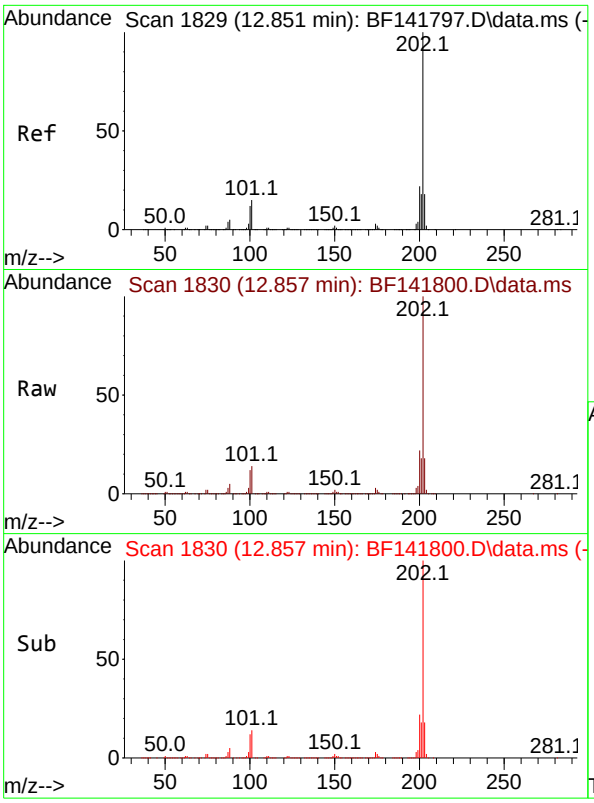


#77
Benzidine
Concen: 100.283 ng
RT: 12.745 min Scan# 1811
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:184 Resp: 660393

Ion	Ratio	Lower	Upper
184	100		
185	15.0	11.6	17.4
183	11.6	9.4	14.0

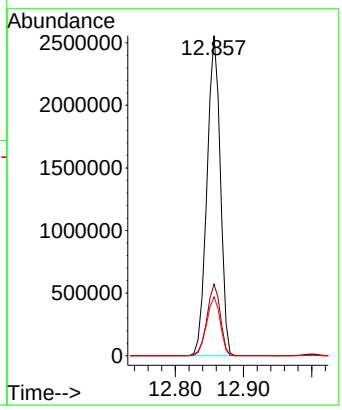




#78
Pyrene
Concen: 76.502 ng
RT: 12.857 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:202 Resp: 346603

Ion	Ratio	Lower	Upper
202	100		
200	22.4	17.4	26.0
203	18.4	14.6	22.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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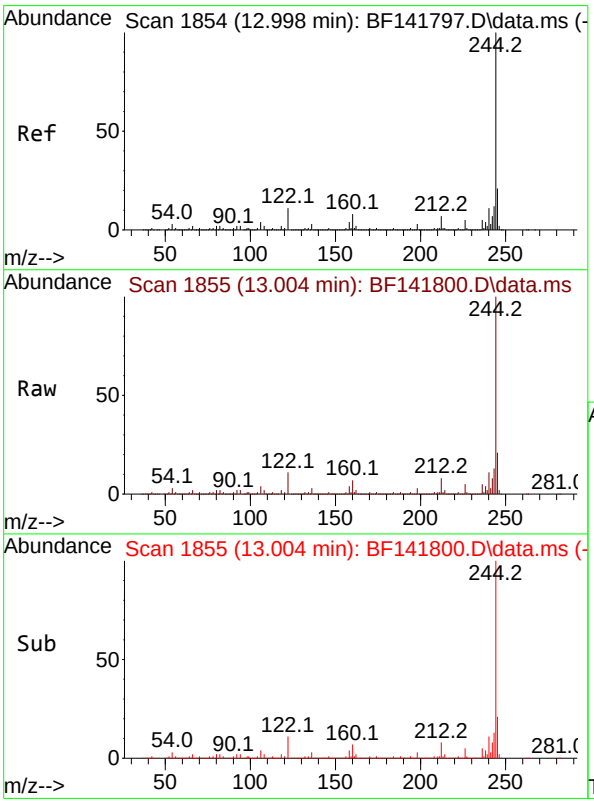
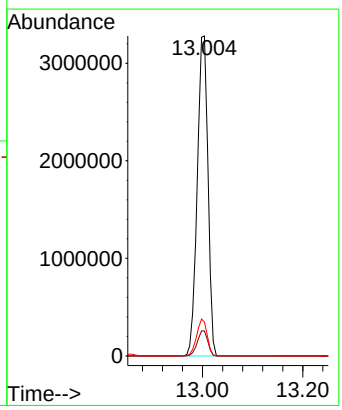
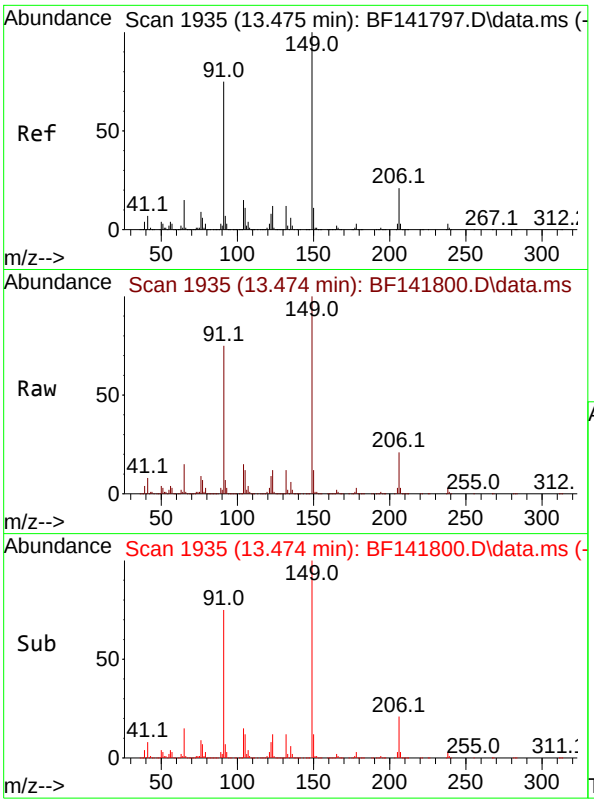


#79
Terphenyl-d14
Concen: 149.765 ng
RT: 13.004 min Scan# 1855
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:244 Resp: 4843134

Ion	Ratio	Lower	Upper
244	100		
212	7.8	6.0	9.0
122	10.5	9.0	13.6

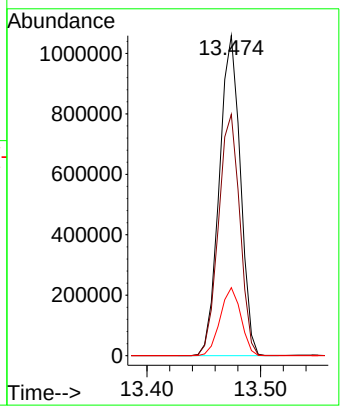




#80
Butylbenzylphthalate
Concen: 82.887 ng
RT: 13.474 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:149 Resp: 136438

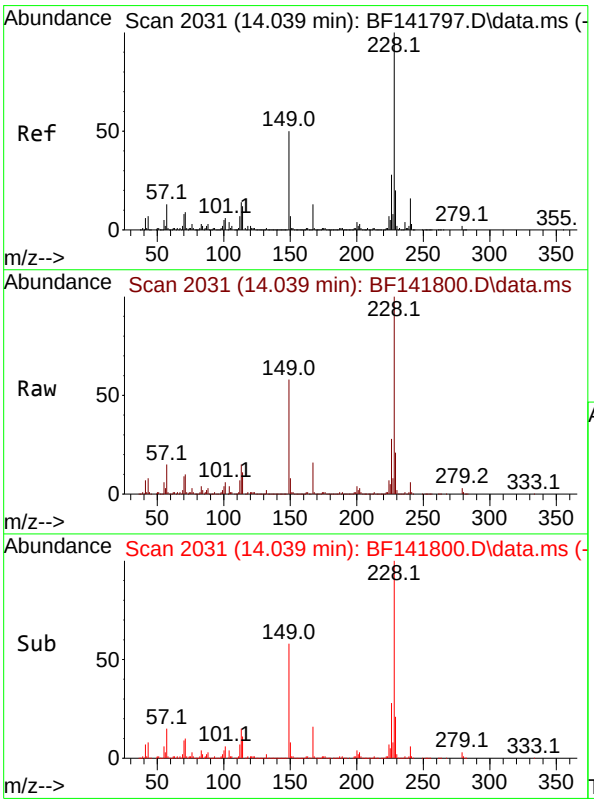
Ion	Ratio	Lower	Upper
149	100		
91	75.4	60.1	90.1
206	21.2	16.8	25.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

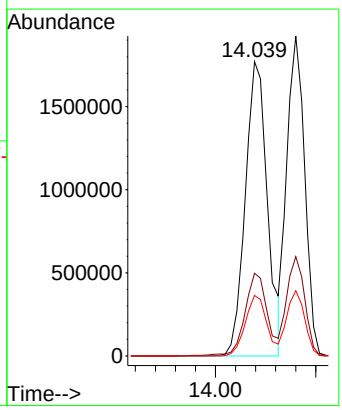
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

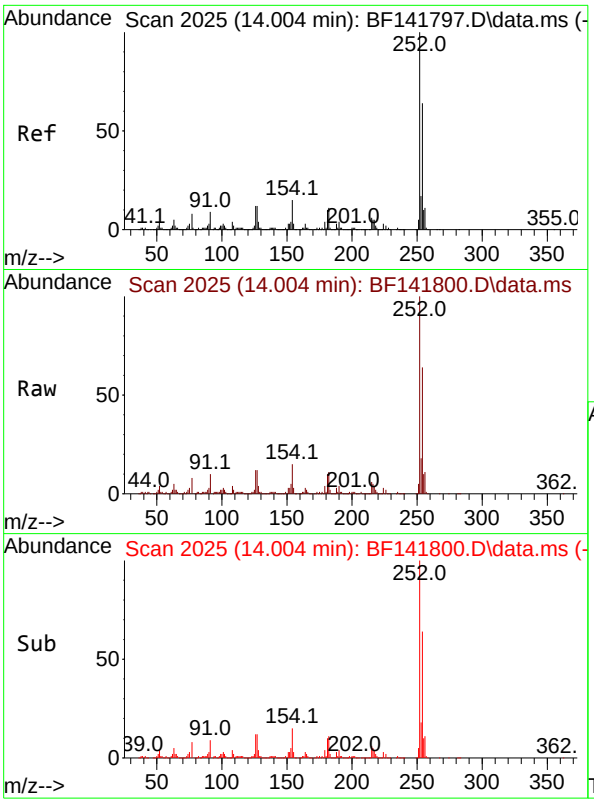


#81
Benzo(a)anthracene
Concen: 78.217 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:228 Resp: 2703093

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.1	33.1
229	20.6	16.1	24.1

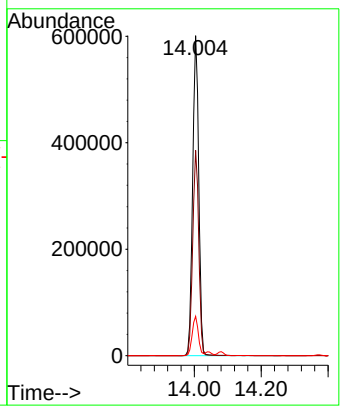




#82
3,3'-Dichlorobenzidine
Concen: 76.939 ng
RT: 14.004 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:252 Resp: 76285

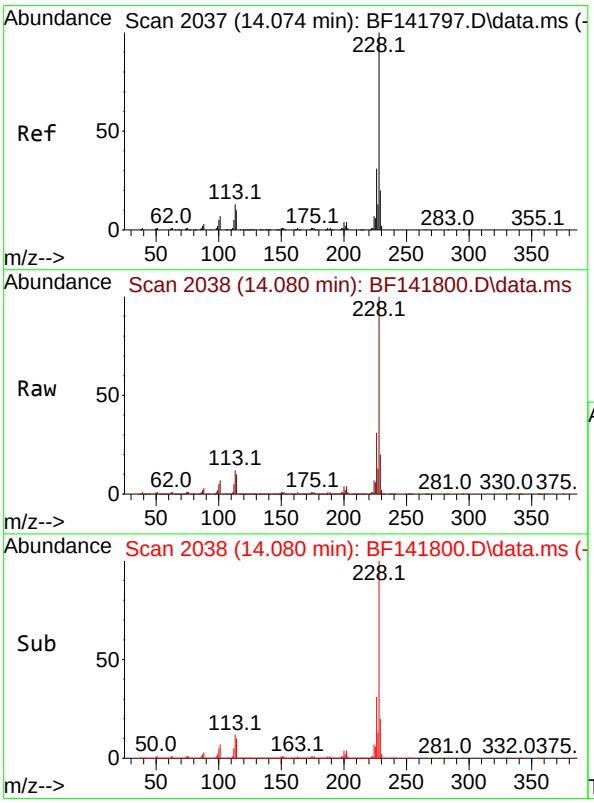
Ion	Ratio	Lower	Upper
252	100		
254	64.2	51.4	77.0
126	12.3	9.8	14.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

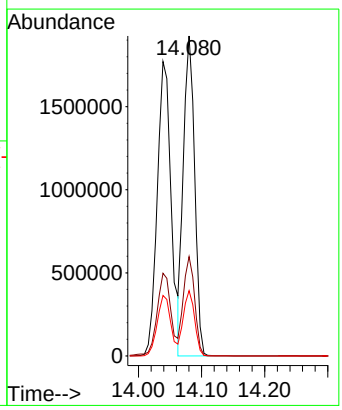
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

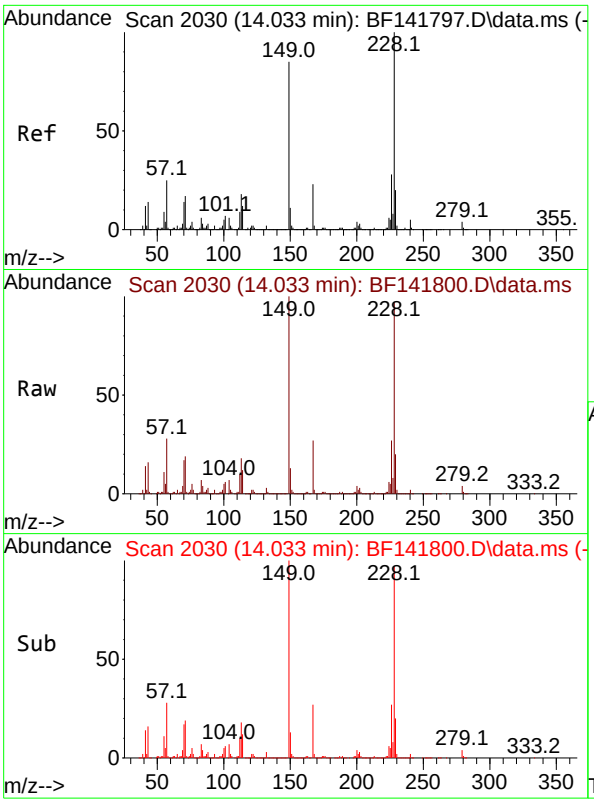


#83
Chrysene
Concen: 75.176 ng
RT: 14.080 min Scan# 2038
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:228 Resp: 2394861

Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.6	37.0
229	20.4	16.1	24.1





#84
Bis(2-ethylhexyl)phthalate
Concen: 84.426 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

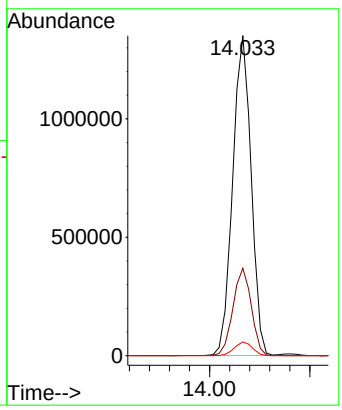
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

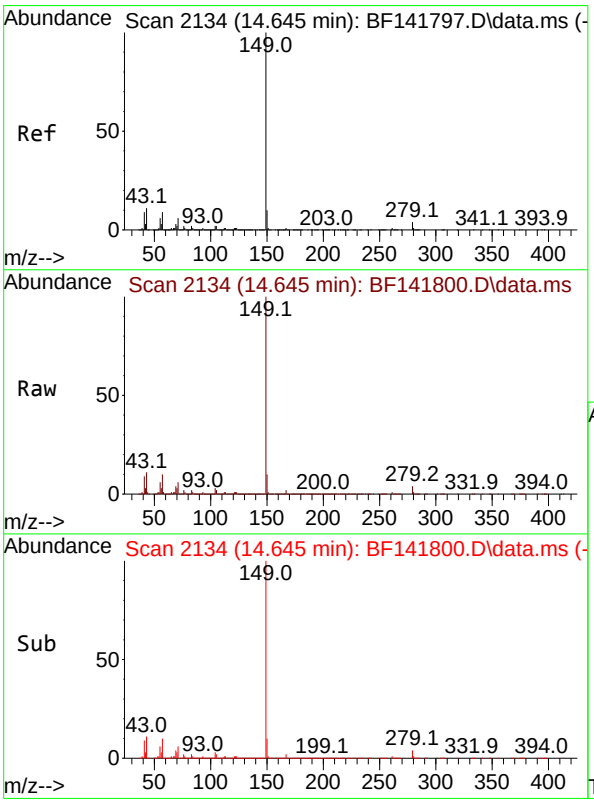
Tgt Ion:149 Resp: 173041

Ion	Ratio	Lower	Upper
149	100		
167	27.3	21.2	31.8
279	4.3	3.3	4.9

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

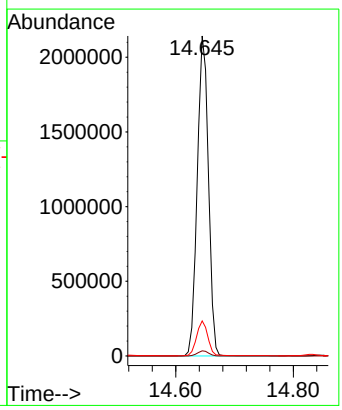


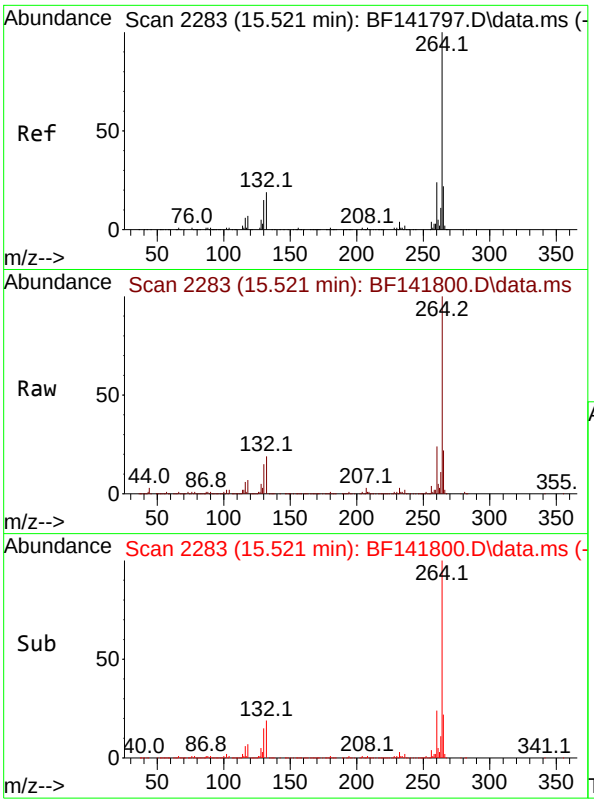


#85
Di-n-octyl phthalate
Concen: 91.958 ng
RT: 14.645 min Scan# 2134
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:149 Resp: 2821762

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	10.9	8.6	12.8





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

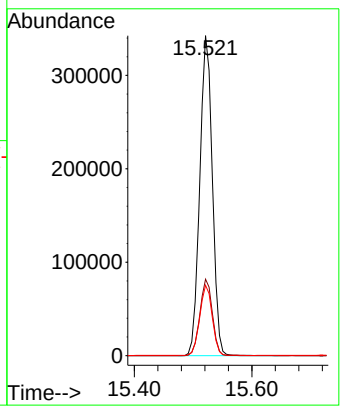
Tgt Ion:264 Resp: 50861

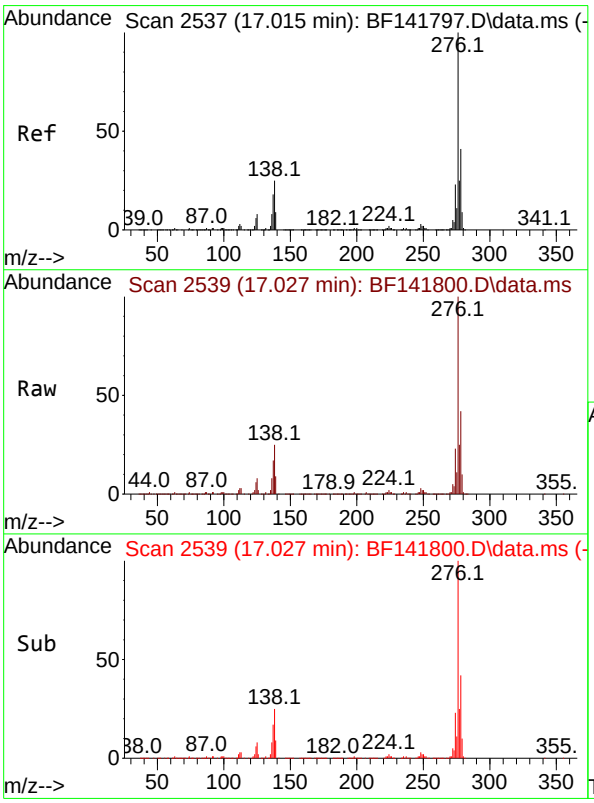
Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.9	28.3
265	22.0	17.4	26.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

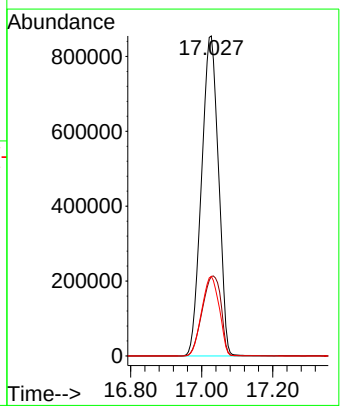


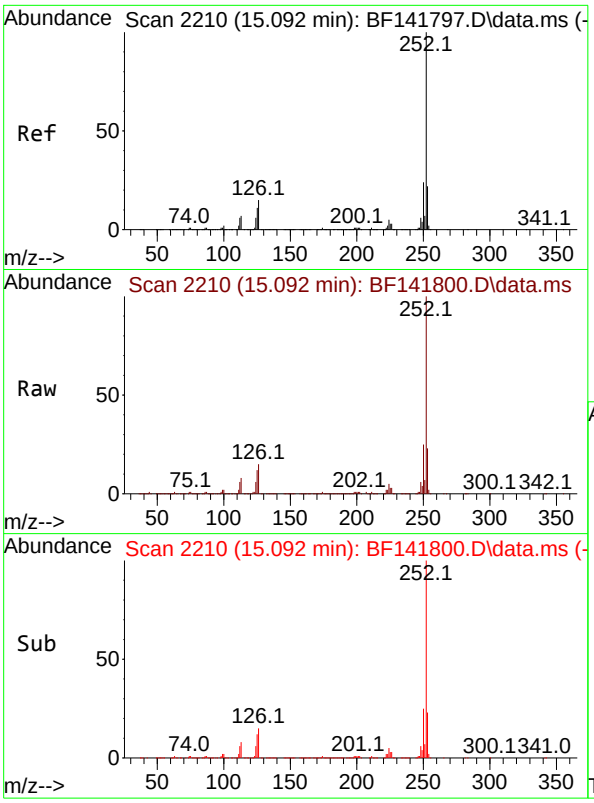


#87
Indeno(1,2,3-cd)pyrene
Concen: 87.778 ng
RT: 17.027 min Scan# 2539
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:276 Resp: 2842850

Ion	Ratio	Lower	Upper
276	100		
138	27.7	22.5	33.7
277	25.7	20.3	30.5

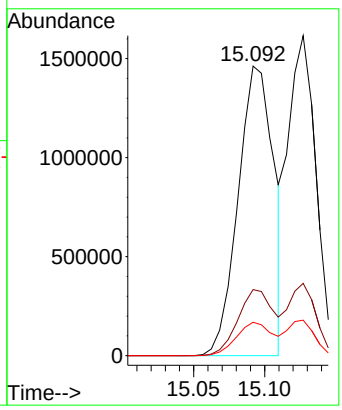




#88
Benzo(b)fluoranthene
Concen: 73.777 ng
RT: 15.092 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:252 Resp: 255601

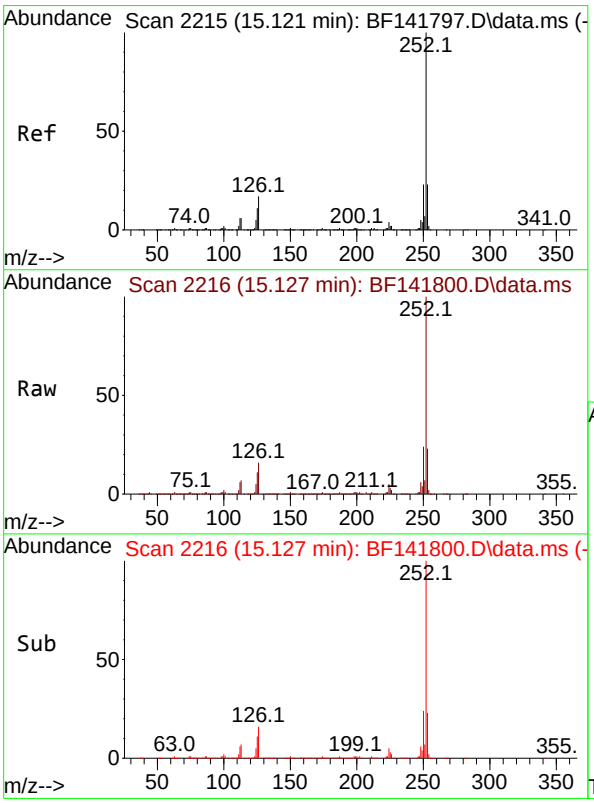
Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.7	26.5
125	11.6	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

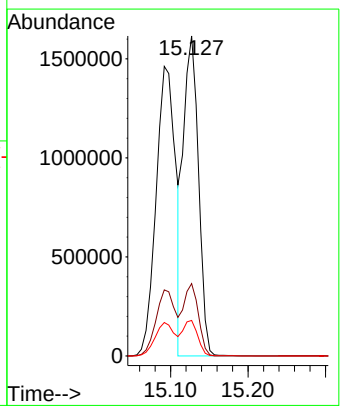
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

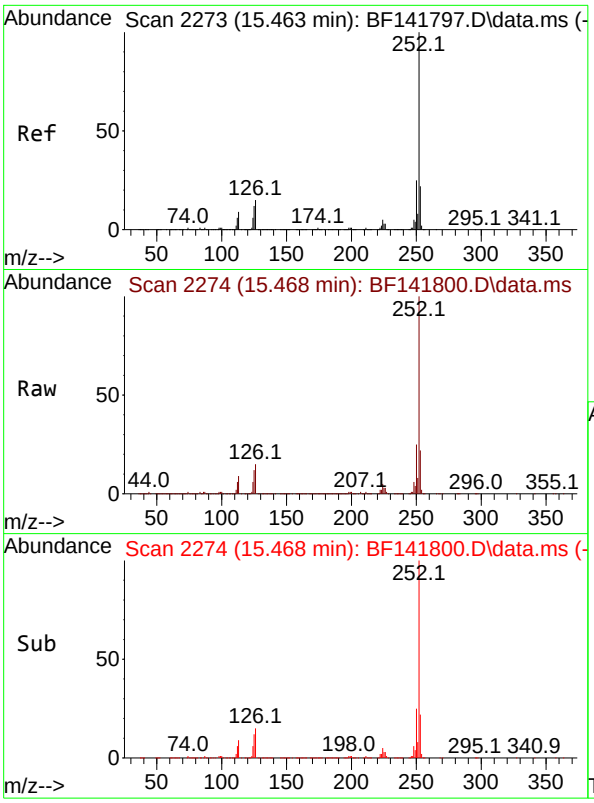


#89
Benzo(k)fluoranthene
Concen: 74.176 ng
RT: 15.127 min Scan# 2216
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:252 Resp: 2184261

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.8	26.8
125	11.1	8.8	13.2





#90
Benzo(a)pyrene
Concen: 77.617 ng
RT: 15.468 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

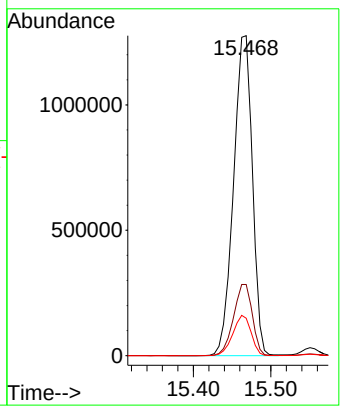
Tgt Ion:252 Resp: 215658

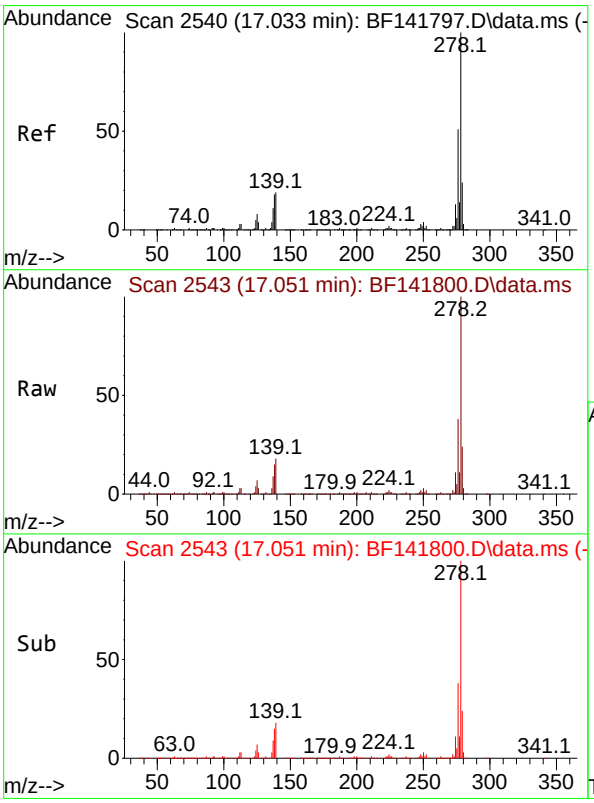
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	11.7	9.4	14.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

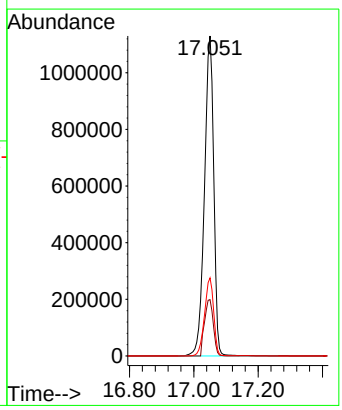


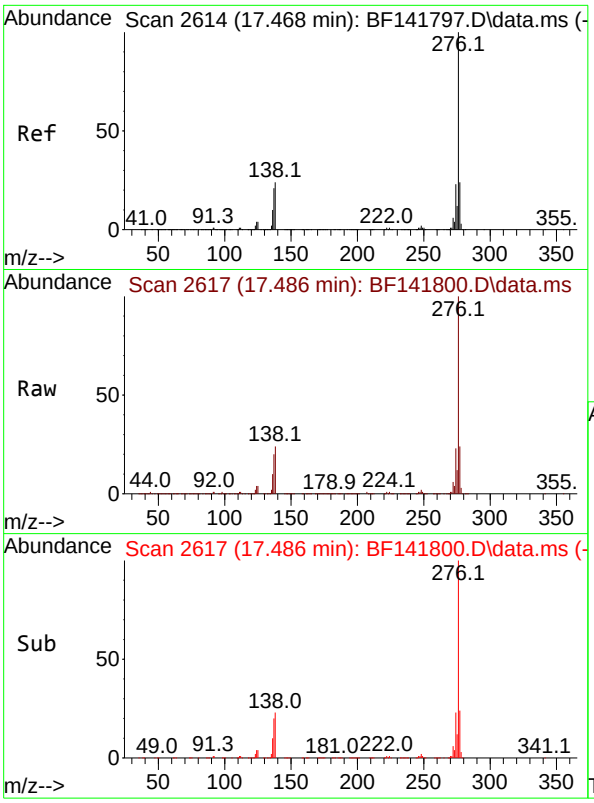


#91
Dibenzo(a,h)anthracene
Concen: 85.844 ng
RT: 17.051 min Scan# 2543
Delta R.T. 0.017 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:278 Resp: 2269377

Ion	Ratio	Lower	Upper
278	100		
139	17.6	14.9	22.3
279	24.4	19.3	28.9

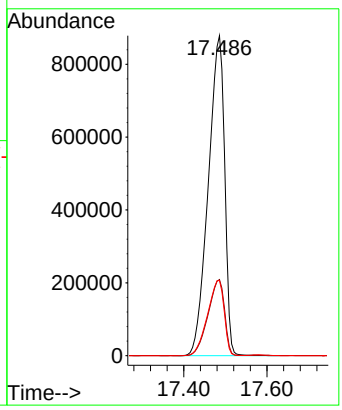




#92
Benzo(g,h,i)perylene
Concen: 88.534 ng
RT: 17.486 min Scan# 2
Delta R.T. 0.017 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:276 Resp: 239775

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.4	29.0
138	23.5	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.892	152	336406	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	1367272	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	753741	20.000	ng		0.00
64) Phenanthrene-d10	11.410	188	1211382	20.000	ng		0.00
76) Chrysene-d12	14.051	240	696919	20.000	ng		0.00
86) Perylene-d12	15.521	264	634238	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.498	112	1736670	82.443	ng		0.00
7) Phenol-d6	6.510	99	2276751	83.039	ng		0.00
23) Nitrobenzene-d5	7.457	82	2025812	94.707	ng		0.00
42) 2,4,6-Tribromophenol	10.716	330	596677	84.321	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	3570541	75.957	ng		0.00
79) Terphenyl-d14	12.998	244	3534753	82.060	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.681	88	396533	41.486	ng		100
3) Pyridine	3.446	79	1012428	42.572	ng		99
4) n-Nitrosodimethylamine	3.404	42	498621	43.575	ng		99
6) Aniline	6.557	93	1221626	42.857	ng		100
8) 2-Chlorophenol	6.675	128	957321	42.011	ng		100
9) Benzaldehyde	6.440	77	696694	43.684	ng		99
10) Phenol	6.528	94	1219216	41.614	ng		99
11) bis(2-Chloroethyl)ether	6.628	93	932690	41.763	ng		99
12) 1,3-Dichlorobenzene	6.834	146	1012705	41.498	ng		99
13) 1,4-Dichlorobenzene	6.910	146	1009763	41.066	ng		99
14) 1,2-Dichlorobenzene	7.063	146	938112	40.857	ng		100
15) Benzyl Alcohol	7.028	79	932679	42.564	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	1447535	42.679	ng		99
17) 2-Methylphenol	7.134	107	796850	42.365	ng		100
18) Hexachloroethane	7.404	117	389901	42.366	ng		99
19) n-Nitroso-di-n-propyla...	7.310	70	748423	41.525	ng		99
20) 3+4-Methylphenols	7.292	107	979968	41.840	ng	#	85
22) Acetophenone	7.298	105	1345874	40.417	ng		98
24) Nitrobenzene	7.475	77	1047974	45.751	ng		100
25) Isophorone	7.710	82	1881562	40.944	ng		99
26) 2-Nitrophenol	7.787	139	462297	45.447	ng		99
27) 2,4-Dimethylphenol	7.816	122	708317	41.931	ng		100
28) bis(2-Chloroethoxy)met...	7.922	93	1183035	40.357	ng		100
29) 2,4-Dichlorophenol	8.022	162	821536	42.157	ng		100
30) 1,2,4-Trichlorobenzene	8.110	180	870339	40.757	ng		100
31) Naphthalene	8.192	128	2800645	39.854	ng		100
32) Benzoic acid	7.939	122	635541	45.545	ng		99
33) 4-Chloroaniline	8.239	127	1033113	40.096	ng		99
34) Hexachlorobutadiene	8.310	225	544620	41.042	ng		99
35) Caprolactam	8.616	113	256209	42.737	ng		99
36) 4-Chloro-3-methylphenol	8.710	107	905842	41.844	ng		100
37) 2-Methylnaphthalene	8.881	142	1830313	39.710	ng		99
38) 1-Methylnaphthalene	8.981	142	1752937	39.635	ng		99
40) 1,2,4,5-Tetrachloroben...	9.045	216	872629	40.086	ng		100
41) Hexachlorocyclopentadiene	9.039	237	354082	38.975	ng		98
43) 2,4,6-Trichlorophenol	9.157	196	592786	42.156	ng		99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	582125	41.806	ng		100
46) 1,1'-Biphenyl	9.351	154	2229687	38.864	ng		100
47) 2-Chloronaphthalene	9.375	162	1663643	39.288	ng		100
48) 2-Nitroaniline	9.463	65	514104	44.684	ng		99
49) Acenaphthylene	9.792	152	2533613	39.907	ng		100
50) Dimethylphthalate	9.651	163	2031698	40.250	ng		100
51) 2,6-Dinitrotoluene	9.710	165	425445	44.292	ng		97
52) Acenaphthene	9.963	154	1734464	40.488	ng		99
53) 3-Nitroaniline	9.881	138	449174	43.938	ng		95
54) 2,4-Dinitrophenol	9.981	184	176378	47.494	ng	#	1
55) Dibenzofuran	10.133	168	2456099	39.391	ng		100
56) 4-Nitrophenol	10.022	139	370704	49.725	ng		99
57) 2,4-Dinitrotoluene	10.110	165	536914	45.704	ng		99
58) Fluorene	10.475	166	1800318	38.547	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	515976	42.607	ng		100
60) Diethylphthalate	10.351	149	2018830	39.896	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	901998	38.546	ng		99
62) 4-Nitroaniline	10.492	138	421232	48.866	ng		99
63) Azobenzene	10.628	77	2141198	40.188	ng		99
65) 4,6-Dinitro-2-methylph...	10.516	198	256241	45.441	ng		99
66) n-Nitrosodiphenylamine	10.586	169	1608263	40.431	ng		100
67) 4-Bromophenyl-phenylether	10.957	248	574667	40.614	ng		99
68) Hexachlorobenzene	11.022	284	608067	40.697	ng		99
69) Atrazine	11.110	200	420733	38.463	ng		99
70) Pentachlorophenol	11.210	266	417260	44.032	ng		100
71) Phenanthrene	11.439	178	2557877	39.475	ng		100
72) Anthracene	11.486	178	2540876	39.126	ng		99
73) Carbazole	11.639	167	2254761	39.317	ng		100
74) Di-n-butylphthalate	11.975	149	2874276	39.540	ng		100
75) Fluoranthene	12.622	202	2552790	38.448	ng		100
77) Benzidine	12.739	184	657519	74.959	ng		99
78) Pyrene	12.851	202	2553211	42.307	ng		100
80) Butylbenzylphthalate	13.469	149	957186	43.655	ng		98
81) Benzo(a)anthracene	14.039	228	1852195	40.236	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	573075	43.392	ng		100
83) Chrysene	14.074	228	1718188	40.491	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	1183508	43.350	ng		99
85) Di-n-octyl phthalate	14.645	149	1881499	46.033	ng		99
87) Indeno(1,2,3-cd)pyrene	17.015	276	1767077	43.754	ng		100
88) Benzo(b)fluoranthene	15.086	252	1710890	39.602	ng		99
89) Benzo(k)fluoranthene	15.121	252	1454422	39.608	ng		99
90) Benzo(a)pyrene	15.457	252	1416788	40.891	ng		99
91) Dibenzo(a,h)anthracene	17.033	278	1440368	43.693	ng		100
92) Benzo(g,h,i)perylene	17.468	276	1484943	43.969	ng		99

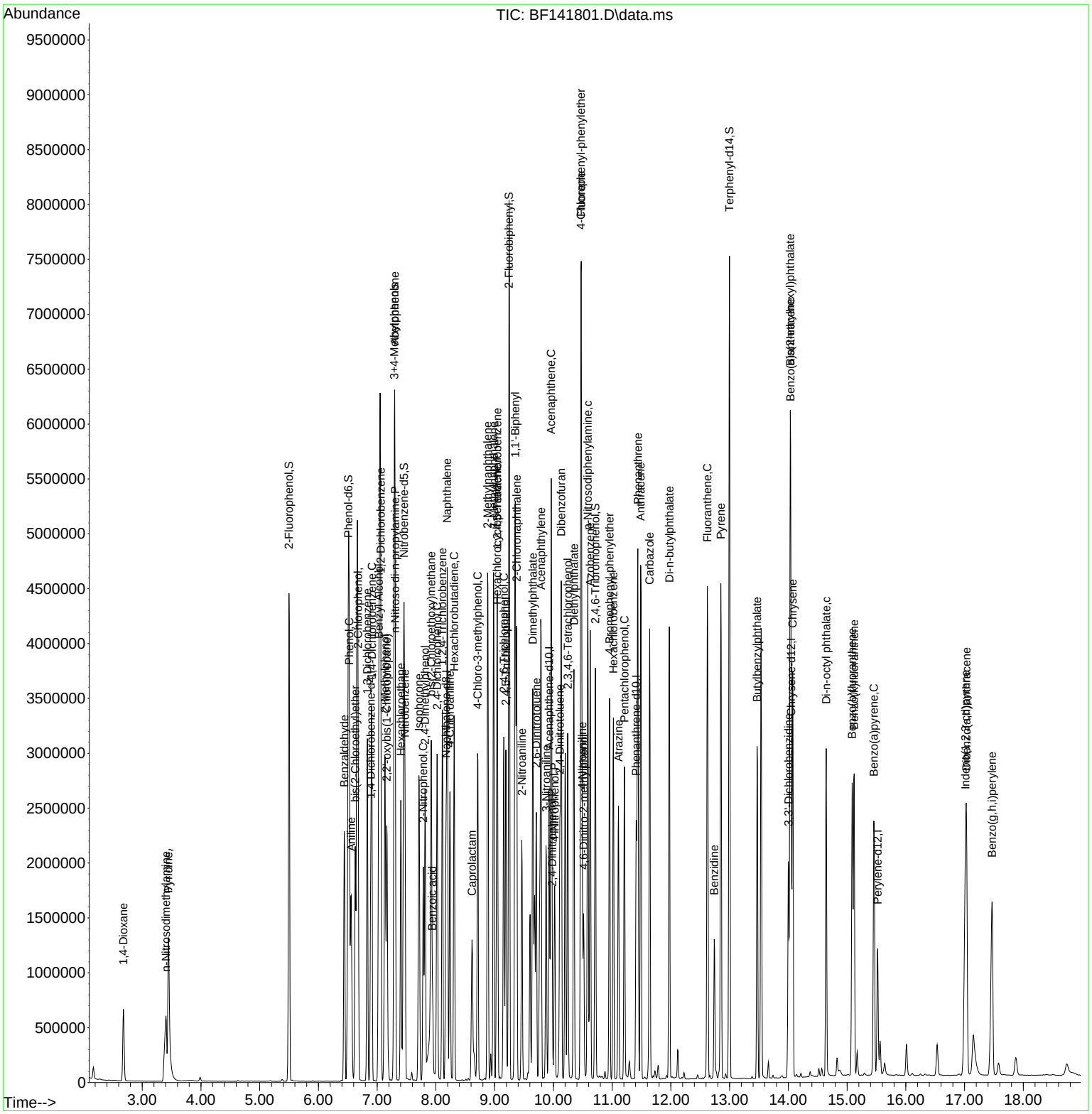
(#) = qualifier out of range (m) = manual integration (+) = signals summed

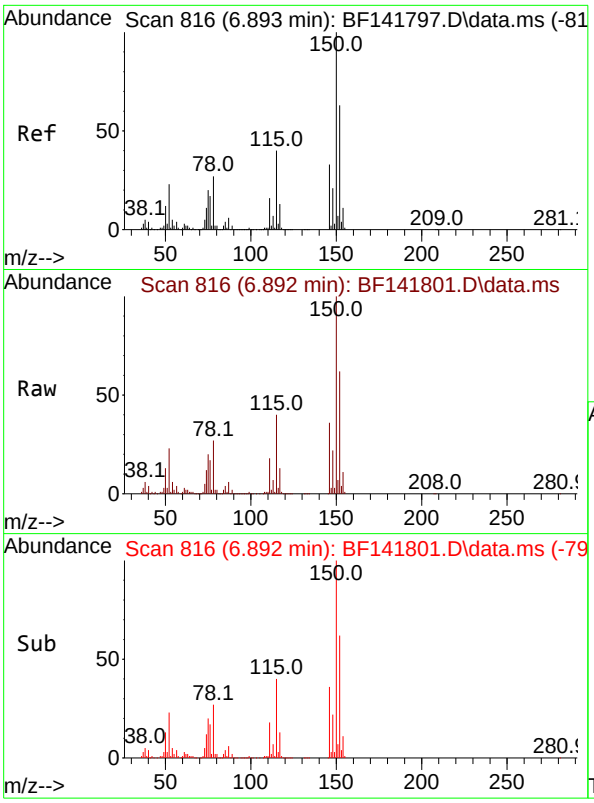
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



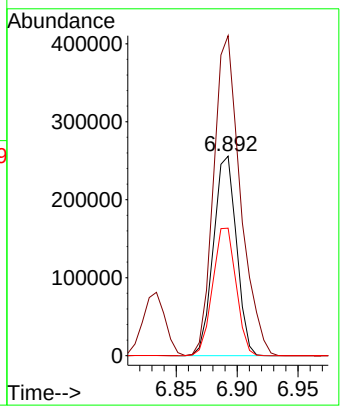


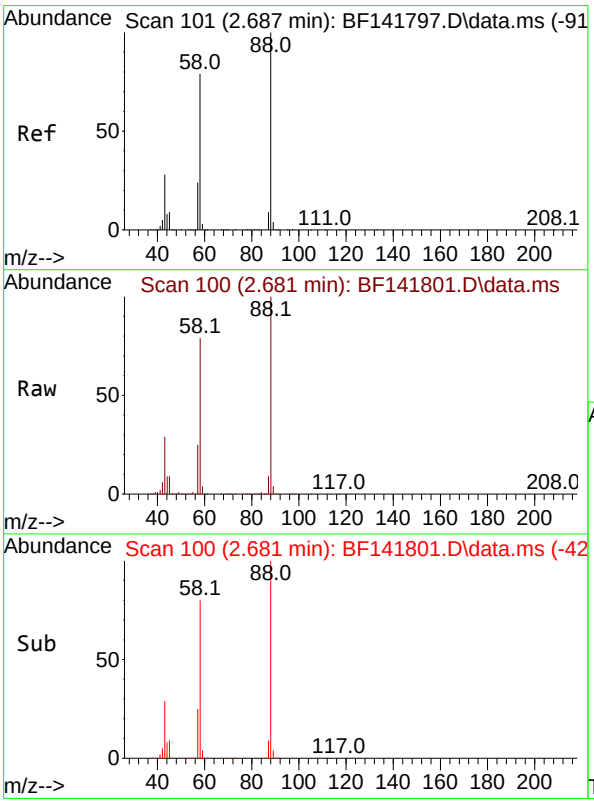
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 8
Delta R.T. -0.001 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:152 Resp: 336406

Ion	Ratio	Lower	Upper
152	100		
150	160.3	127.5	191.3
115	63.9	51.4	77.2

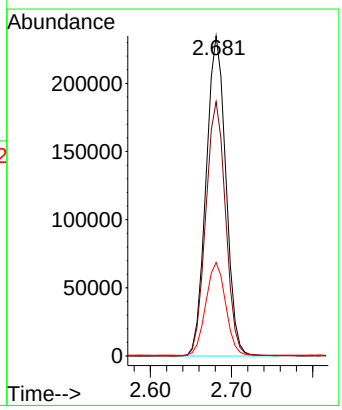


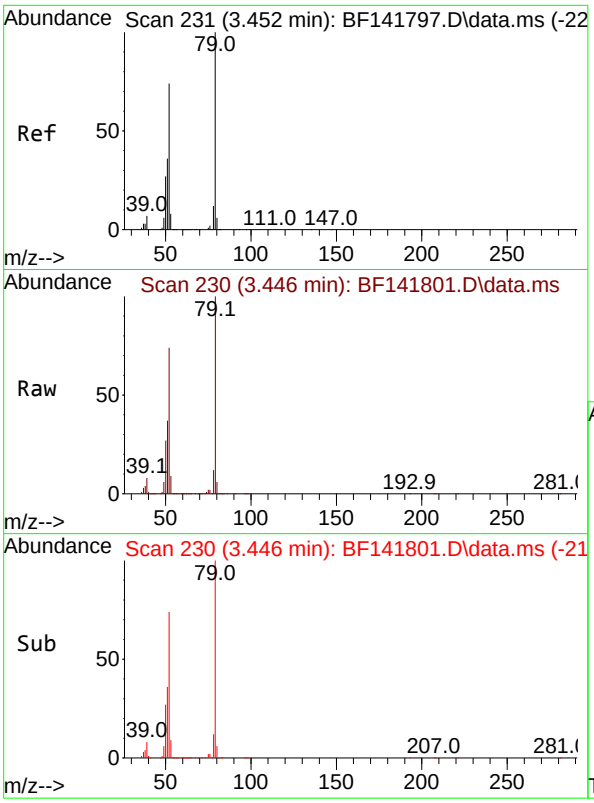


#2
1,4-Dioxane
Concen: 41.486 ng
RT: 2.681 min Scan# 100
Delta R.T. -0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 88 Resp: 396533

Ion	Ratio	Lower	Upper
88	100		
58	79.7	63.9	95.9
43	29.0	23.0	34.6



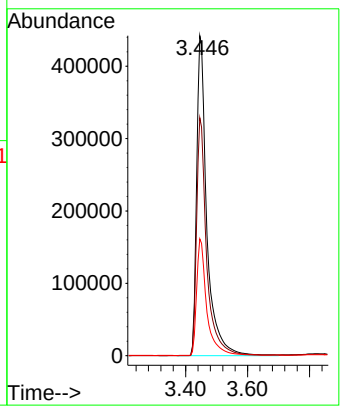


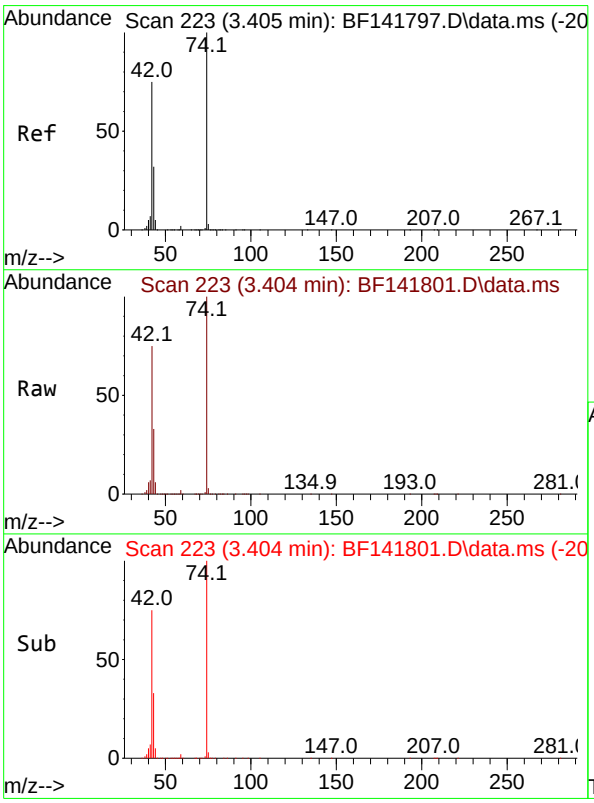
#3
Pyridine
Concen: 42.572 ng
RT: 3.446 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion: 79 Resp: 1012428

Ion	Ratio	Lower	Upper
79	100		
52	74.3	59.0	88.4
51	36.5	29.0	43.4

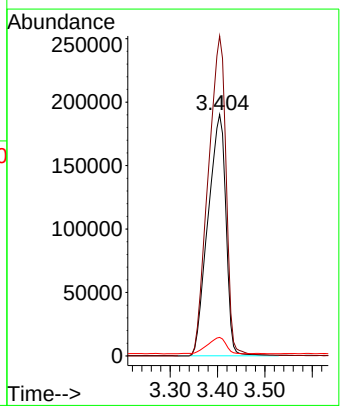


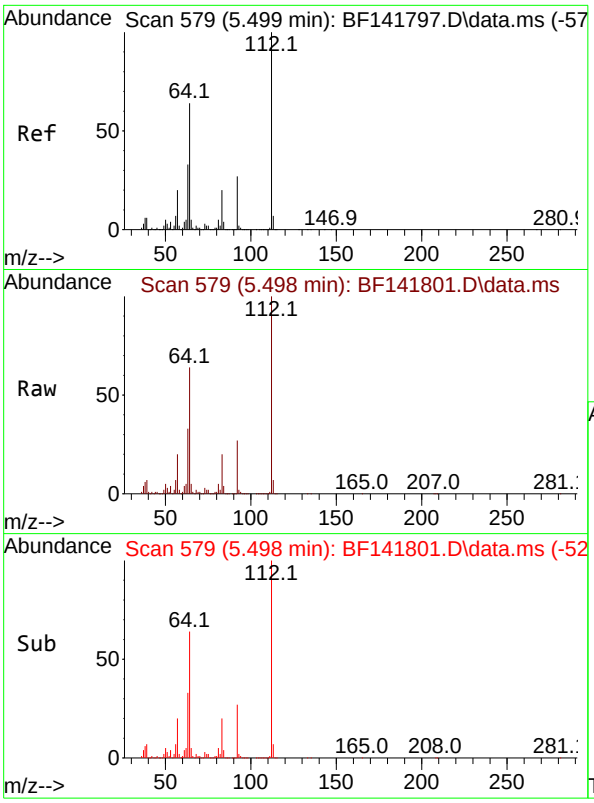


#4
n-Nitrosodimethylamine
Concen: 43.575 ng
RT: 3.404 min Scan# 223
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 42 Resp: 498621

Ion	Ratio	Lower	Upper
42	100		
74	132.5	107.1	160.7
44	7.7	6.6	9.8



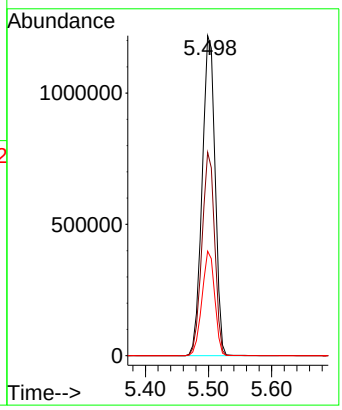


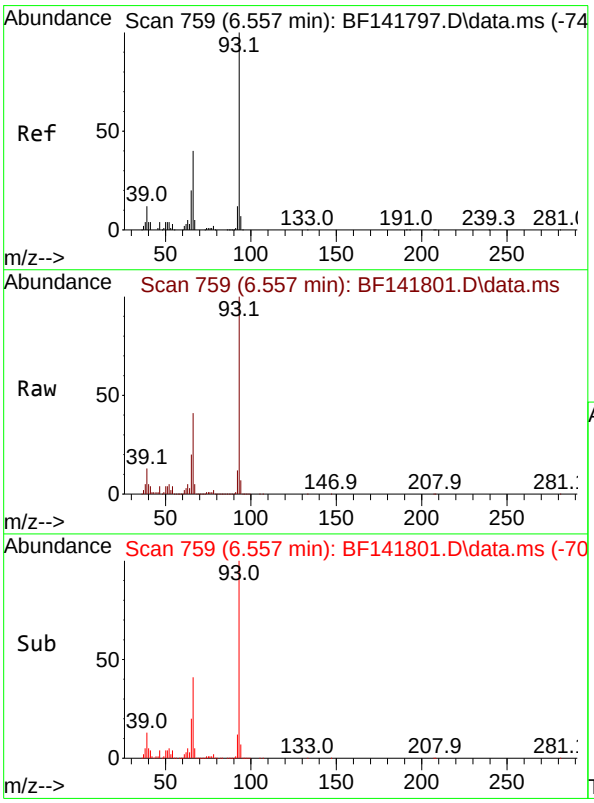
#5
2-Fluorophenol
Concen: 82.443 ng
RT: 5.498 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:112 Resp: 1736670

Ion	Ratio	Lower	Upper
112	100		
64	63.5	51.3	76.9
63	32.6	26.2	39.4

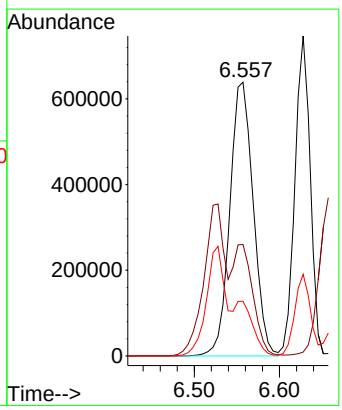


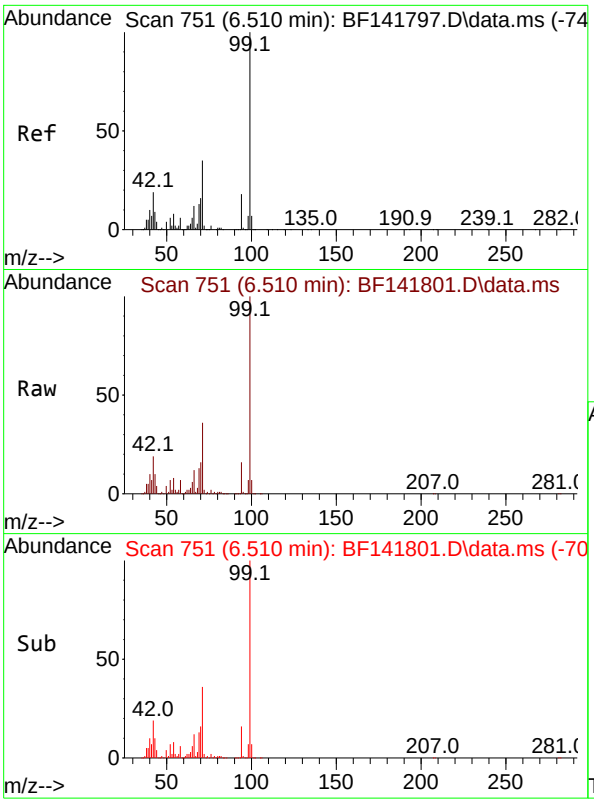


#6
Aniline
Concen: 42.857 ng
RT: 6.557 min Scan# 759
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 93 Resp: 1221626

Ion	Ratio	Lower	Upper
93	100		
66	40.7	32.3	48.5
65	20.0	15.9	23.9



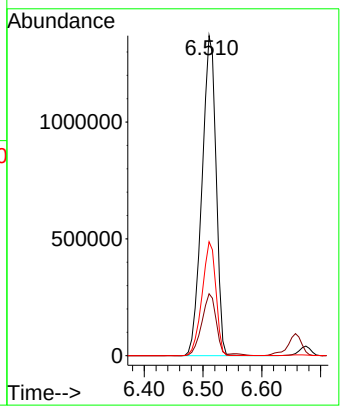


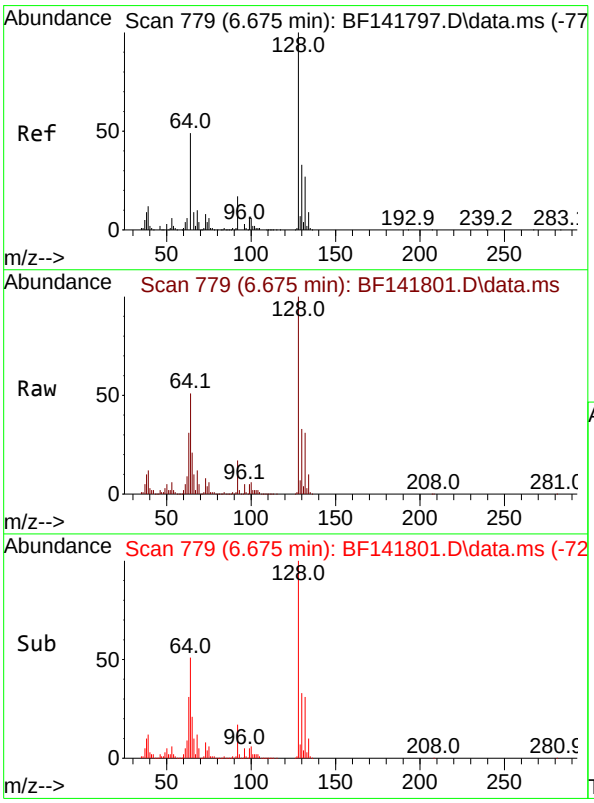
#7
Phenol-d6
Concen: 83.039 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion: 99 Resp: 2276751

Ion	Ratio	Lower	Upper
99	100		
42	19.4	15.2	22.8
71	35.6	28.2	42.2

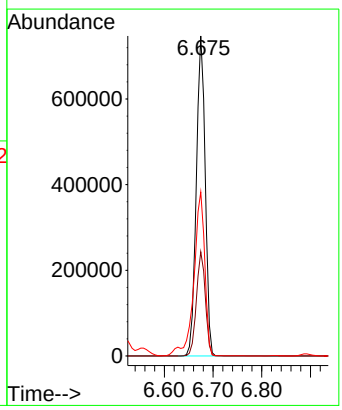


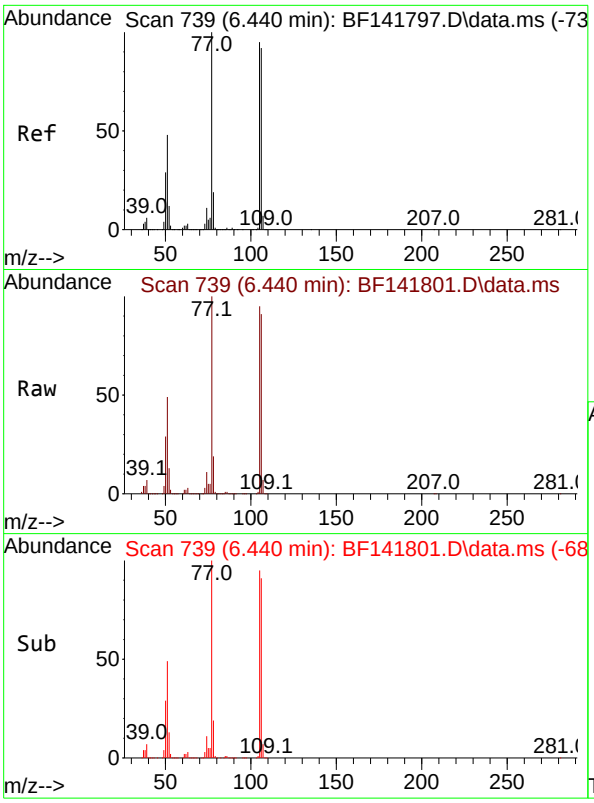


#8
2-Chlorophenol
Concen: 42.011 ng
RT: 6.675 min Scan# 779
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:128 Resp: 957321

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.6	52.6
64	51.2	31.1	71.1



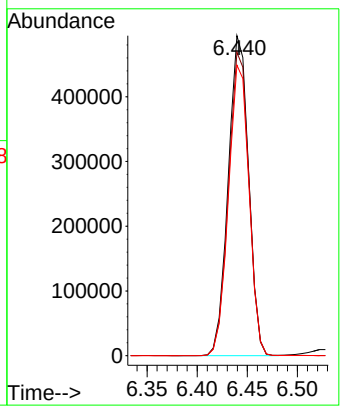


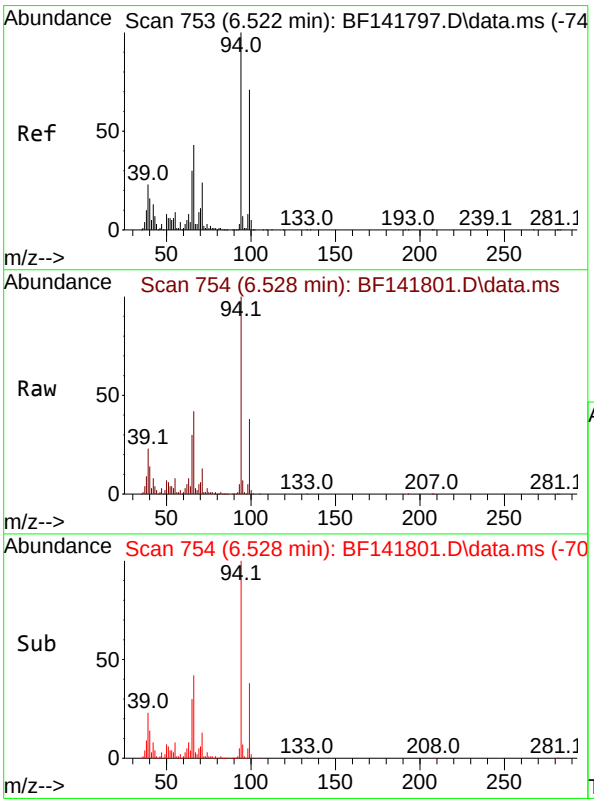
#9
Benzaldehyde
Concen: 43.684 ng
RT: 6.440 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion: 77 Resp: 696694

Ion	Ratio	Lower	Upper
77	100		
105	94.8	75.3	115.3
106	90.8	72.3	112.3

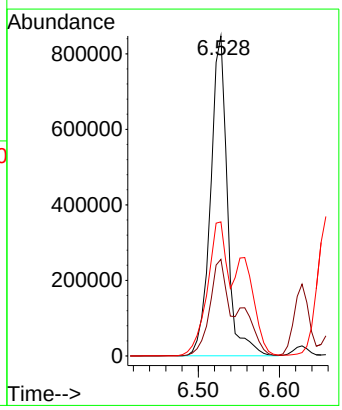


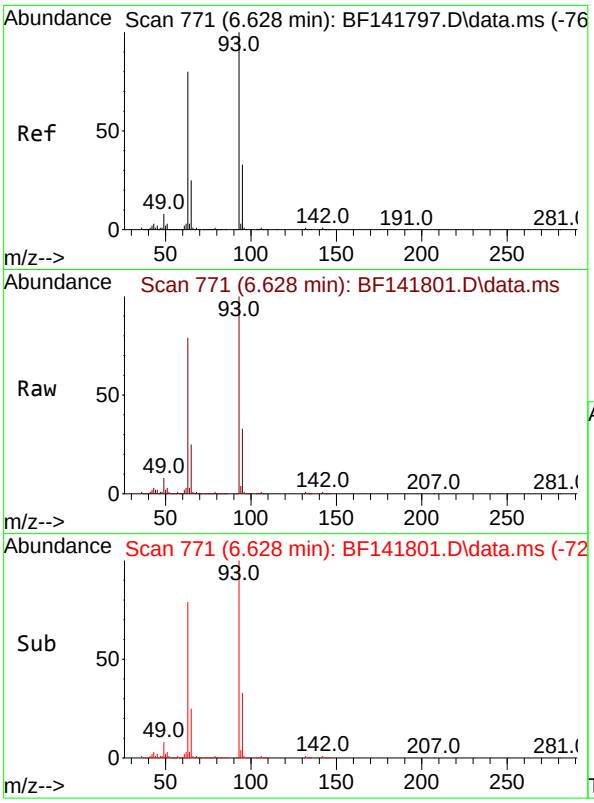


#10
Phenol
Concen: 41.614 ng
RT: 6.528 min Scan# 754
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 94 Resp: 1219216

Ion	Ratio	Lower	Upper
94	100		
65	30.2	10.2	50.2
66	41.9	23.2	63.2



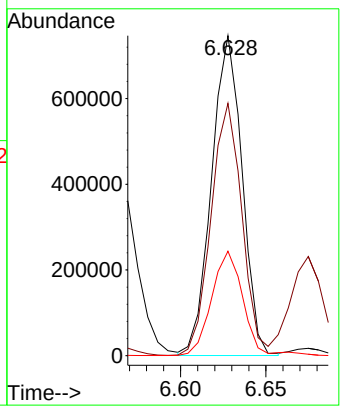


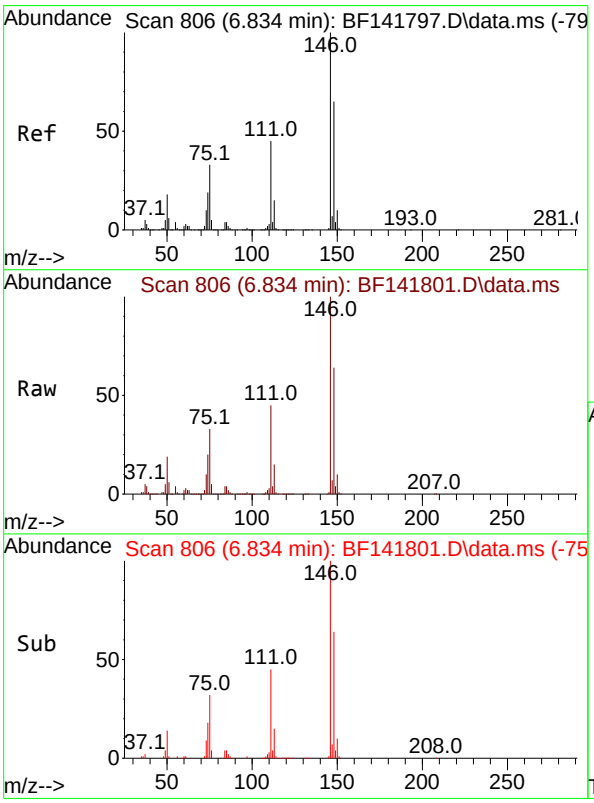
#11
bis(2-Chloroethyl)ether
Concen: 41.763 ng
RT: 6.628 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion: 93 Resp: 932690

Ion	Ratio	Lower	Upper
93	100		
63	78.9	59.3	99.3
95	32.6	13.2	53.2

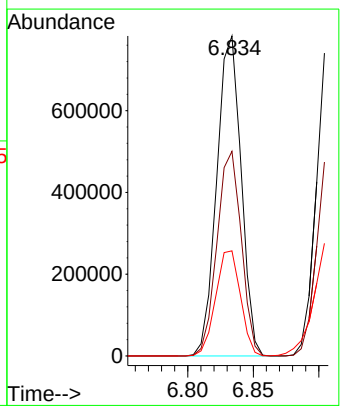


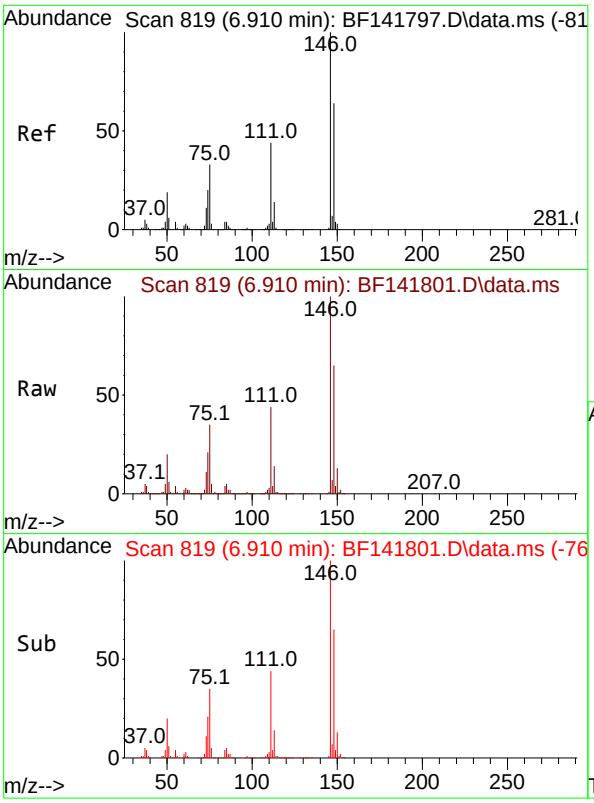


#12
1,3-Dichlorobenzene
Concen: 41.498 ng
RT: 6.834 min Scan# 806
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:146 Resp: 1012705

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.8	77.6
75	32.9	26.2	39.4



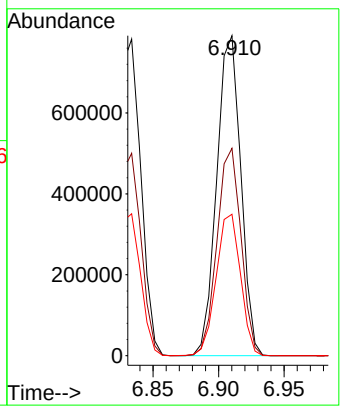


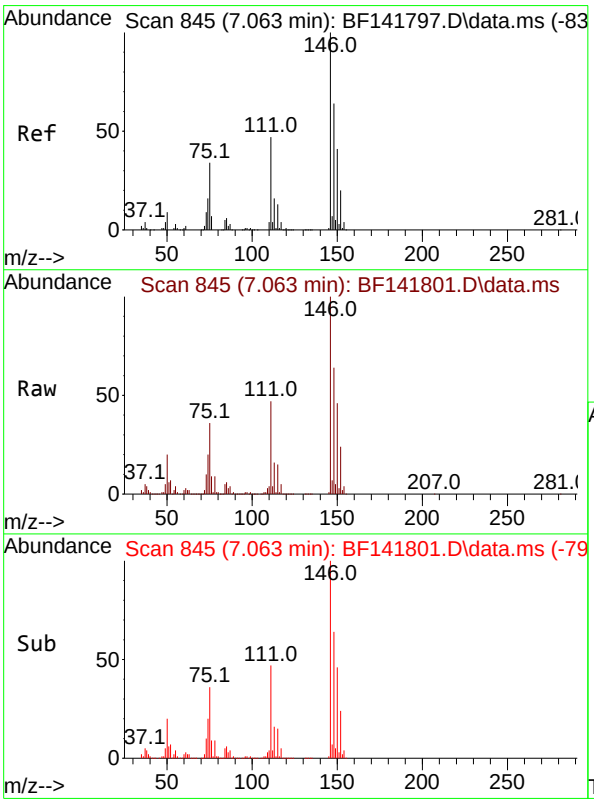
#13
1,4-Dichlorobenzene
Concen: 41.066 ng
RT: 6.910 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:146 Resp: 1009763

Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.4	77.2
111	44.2	35.5	53.3

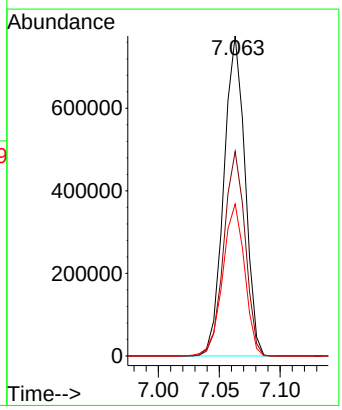


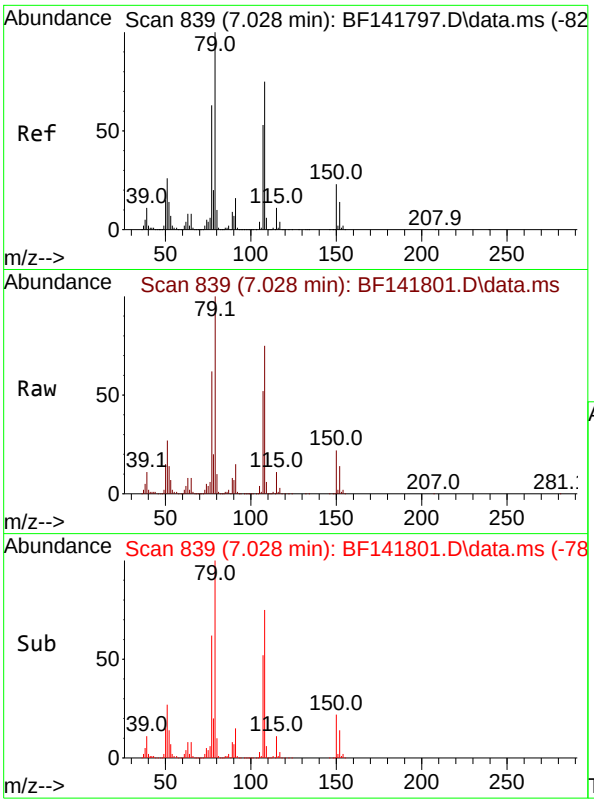


#14
1,2-Dichlorobenzene
Concen: 40.857 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:146 Resp: 938112

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.2	76.8
111	47.5	37.8	56.6



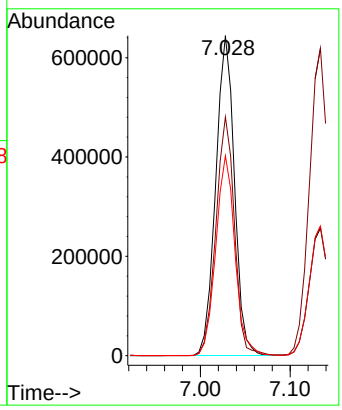


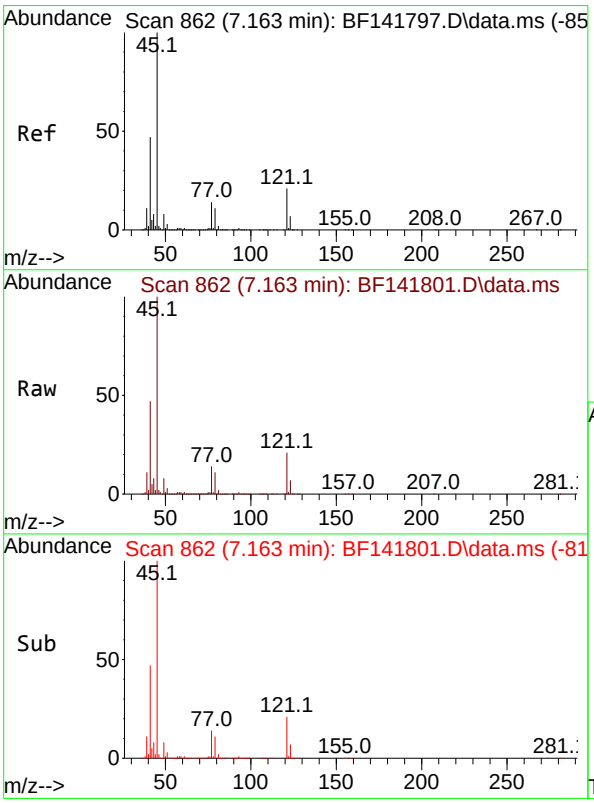
#15
Benzyl Alcohol
Concen: 42.564 ng
RT: 7.028 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion: 79 Resp: 932679

Ion	Ratio	Lower	Upper
79	100		
108	74.6	60.2	90.2
77	62.5	50.2	75.2

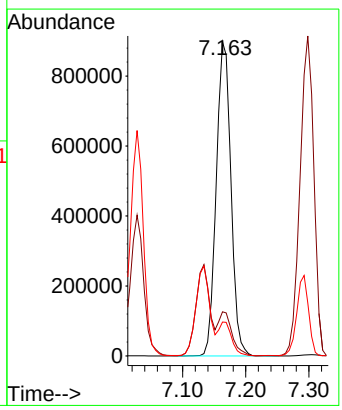


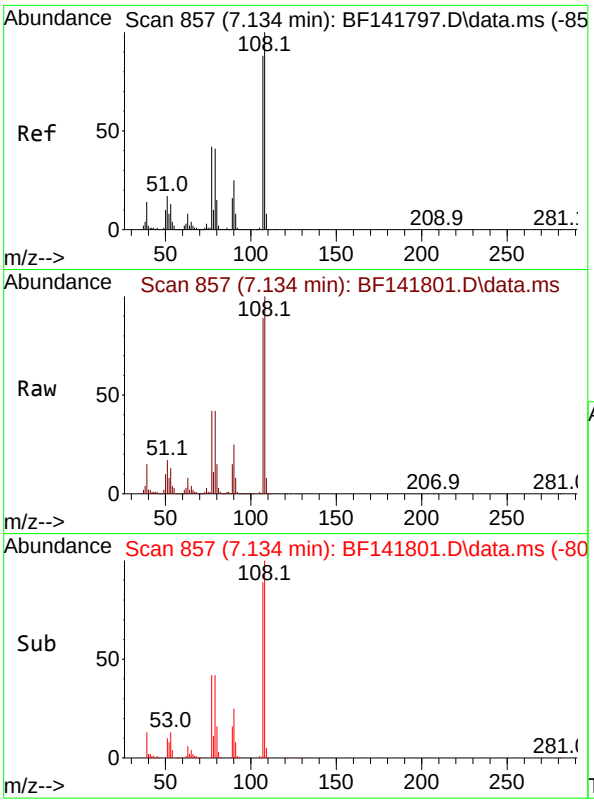


#16
2,2'-oxybis(1-Chloropropane)
Concen: 42.679 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 45 Resp: 1447535

Ion	Ratio	Lower	Upper
45	100		
77	14.1	0.0	34.4
79	10.8	0.0	30.9



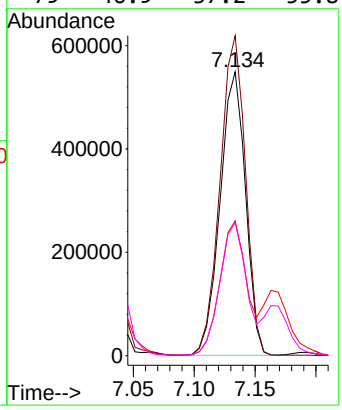


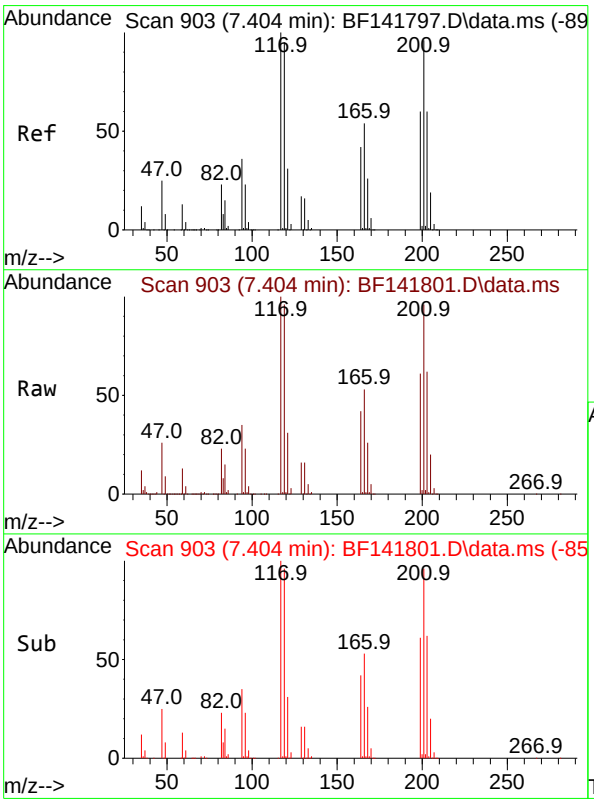
#17
2-Methylphenol
Concen: 42.365 ng
RT: 7.134 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:107 Resp: 796850

Ion	Ratio	Lower	Upper
107	100		
108	112.8	90.6	135.8
77	47.6	37.7	56.5
79	46.9	37.2	55.8

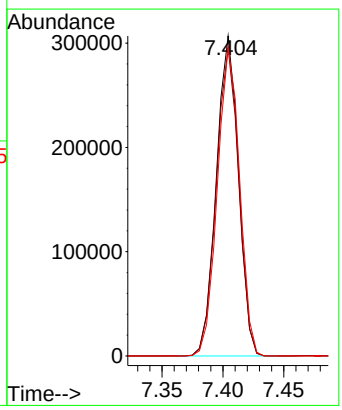


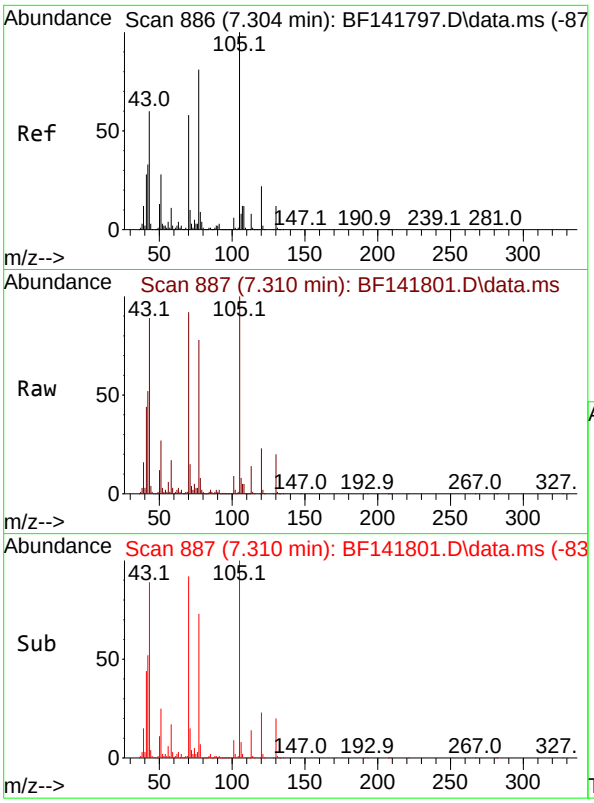


#18
Hexachloroethane
Concen: 42.366 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:117 Resp: 389901

Ion	Ratio	Lower	Upper
117	100		
119	96.4	75.8	113.8
201	96.2	76.7	115.1



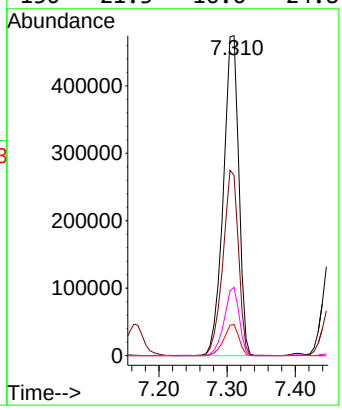


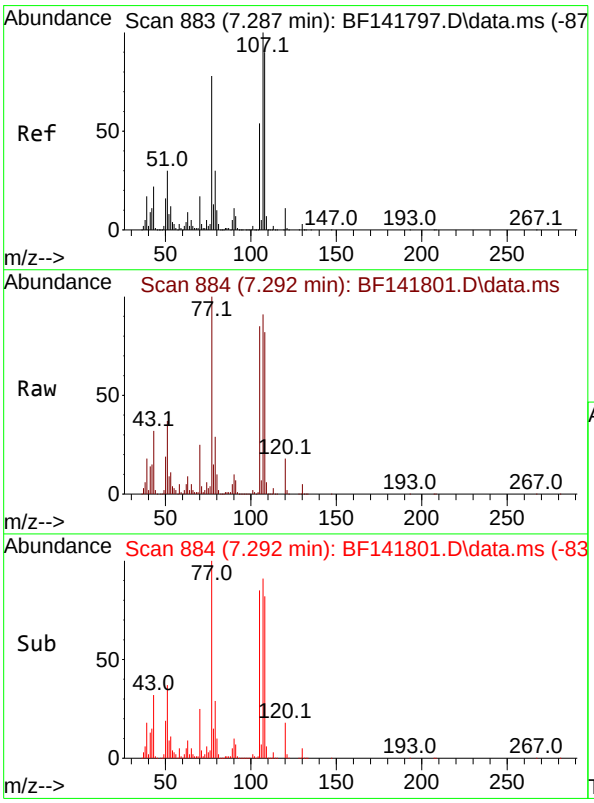
#19
n-Nitroso-di-n-propylamine
Concen: 41.525 ng
RT: 7.310 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion: 70 Resp: 748423

Ion	Ratio	Lower	Upper
70	100		
42	56.4	45.4	68.0
101	9.8	7.8	11.8
130	21.3	16.6	24.8

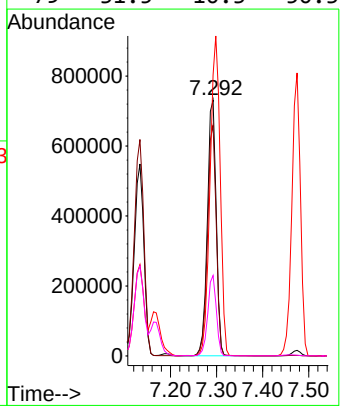


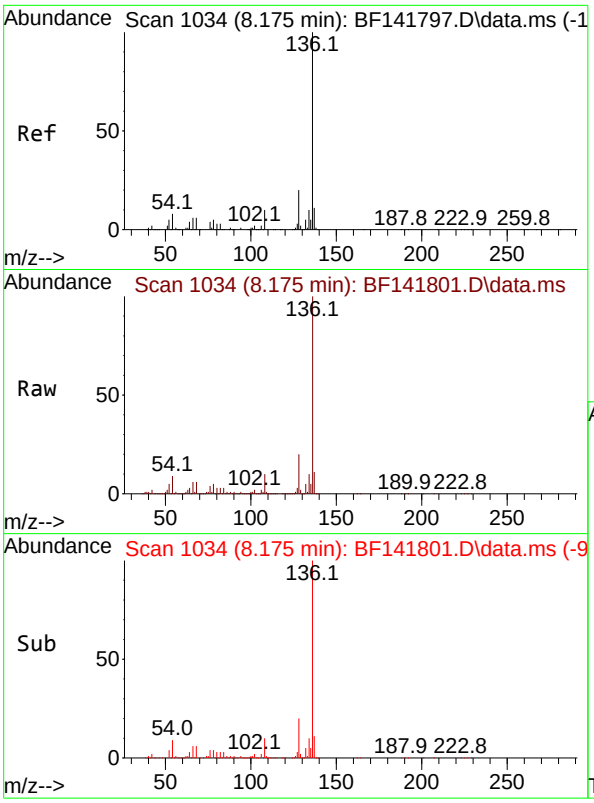


#20
3+4-Methylphenols
Concen: 41.840 ng
RT: 7.292 min Scan# 884
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:107 Resp: 979968

Ion	Ratio	Lower	Upper
107	100		
108	90.2	69.7	109.7
77	109.8	58.3	98.3#
79	31.5	10.3	50.3



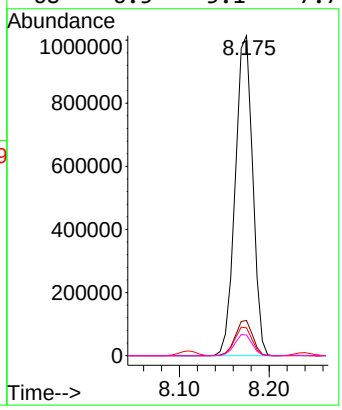


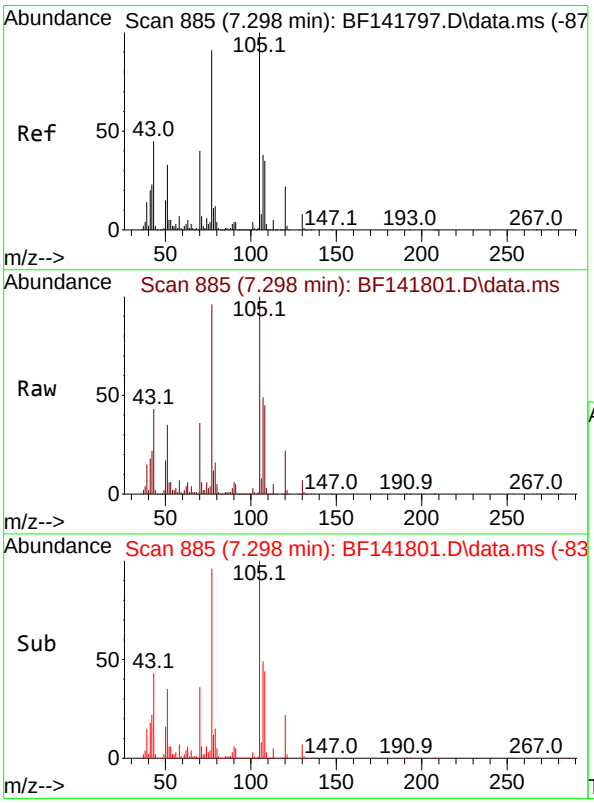
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:136 Resp: 1367272

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	8.7	6.9	10.3
68	6.5	5.1	7.7

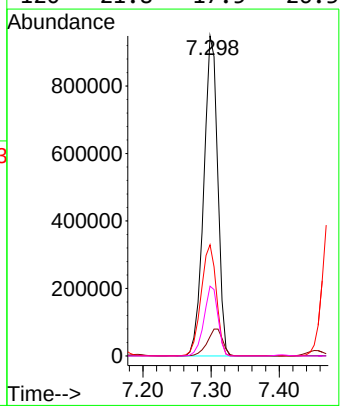


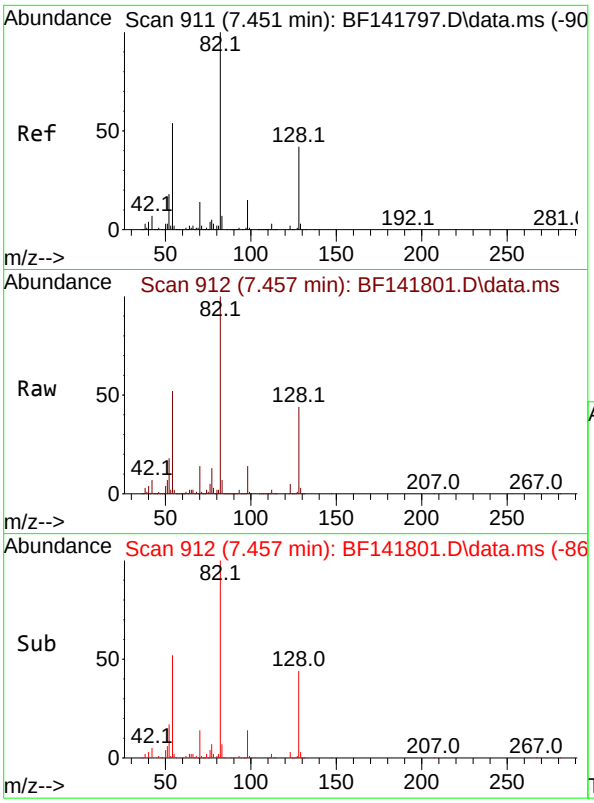


#22
Acetophenone
Concen: 40.417 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:105 Resp: 1345874

Ion	Ratio	Lower	Upper
105	100		
71	6.1	5.4	8.0
51	34.8	26.1	39.1
120	21.8	17.5	26.3



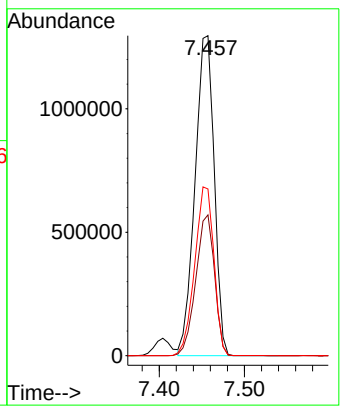


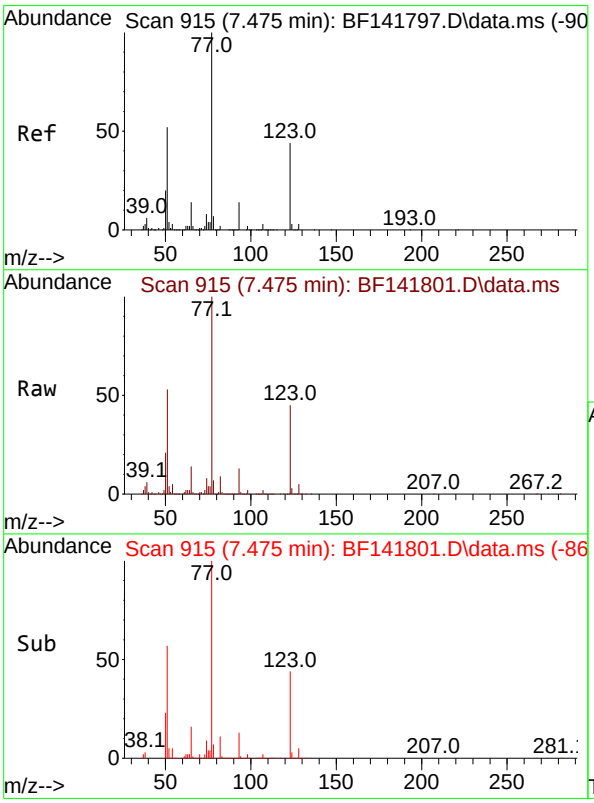
#23
Nitrobenzene-d5
Concen: 94.707 ng
RT: 7.457 min Scan# 91
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion: 82 Resp: 2025812

Ion	Ratio	Lower	Upper
82	100		
128	44.0	33.5	50.3
54	52.1	42.7	64.1

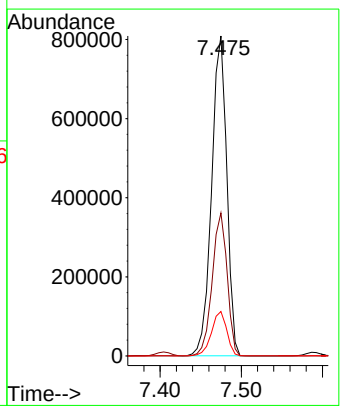


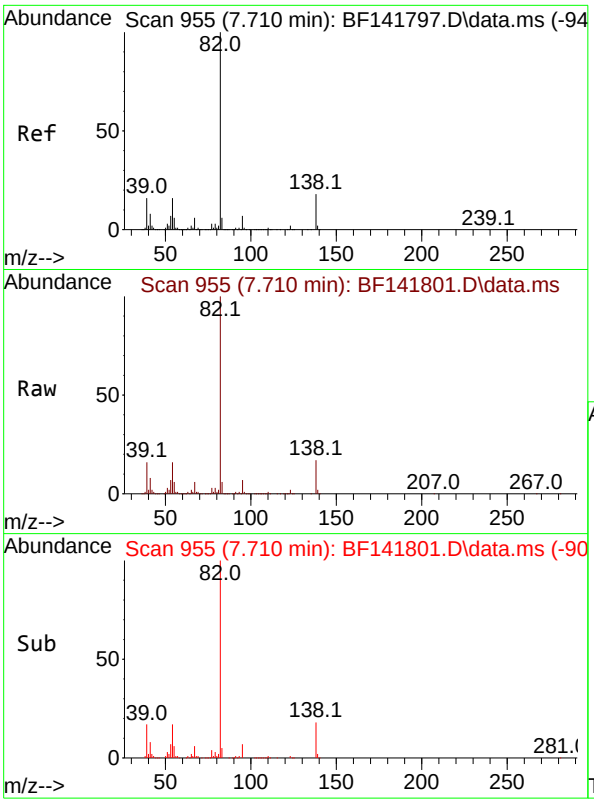


#24
Nitrobenzene
Concen: 45.751 ng
RT: 7.475 min Scan# 915
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 77 Resp: 1047974

Ion	Ratio	Lower	Upper
77	100		
123	44.7	35.8	53.8
65	13.9	11.2	16.8



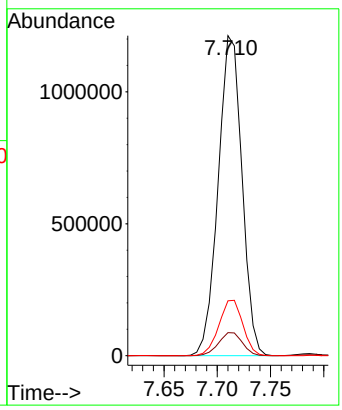


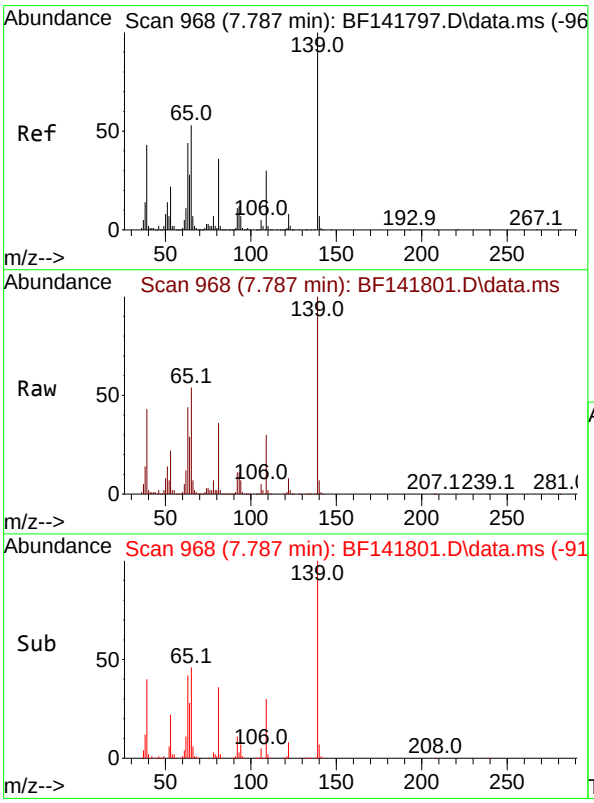
#25
Isophorone
Concen: 40.944 ng
RT: 7.710 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion: 82 Resp: 1881562

Ion	Ratio	Lower	Upper
82	100		
95	7.2	5.8	8.8
138	17.2	14.0	21.0

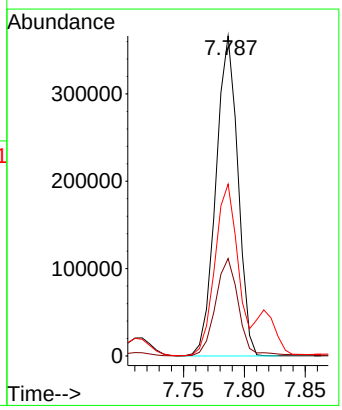


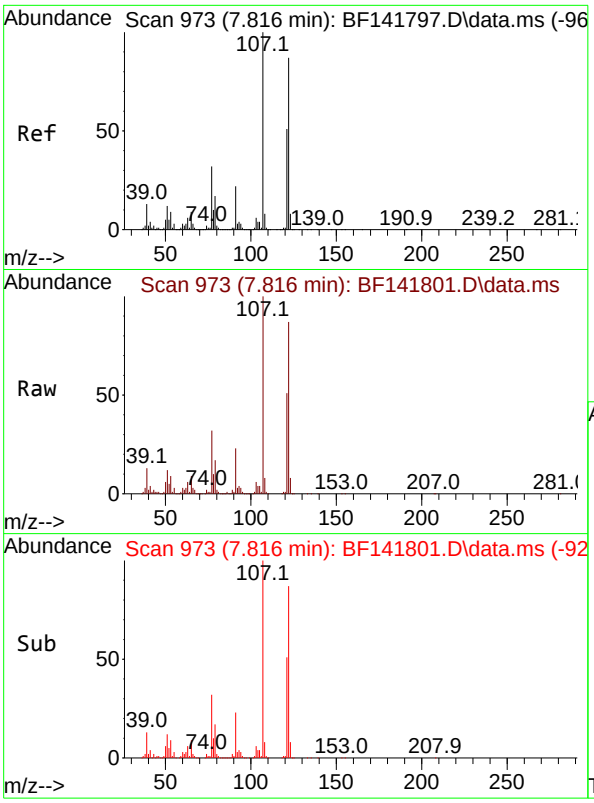


#26
2-Nitrophenol
Concen: 45.447 ng
RT: 7.787 min Scan# 968
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:139 Resp: 462297

Ion	Ratio	Lower	Upper
139	100		
109	30.5	24.1	36.1
65	53.7	42.3	63.5



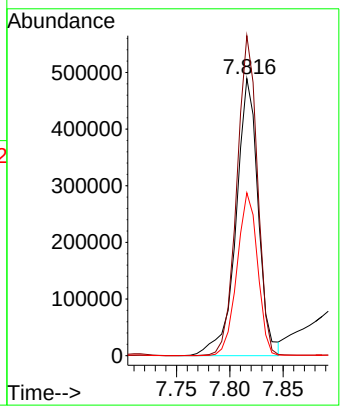


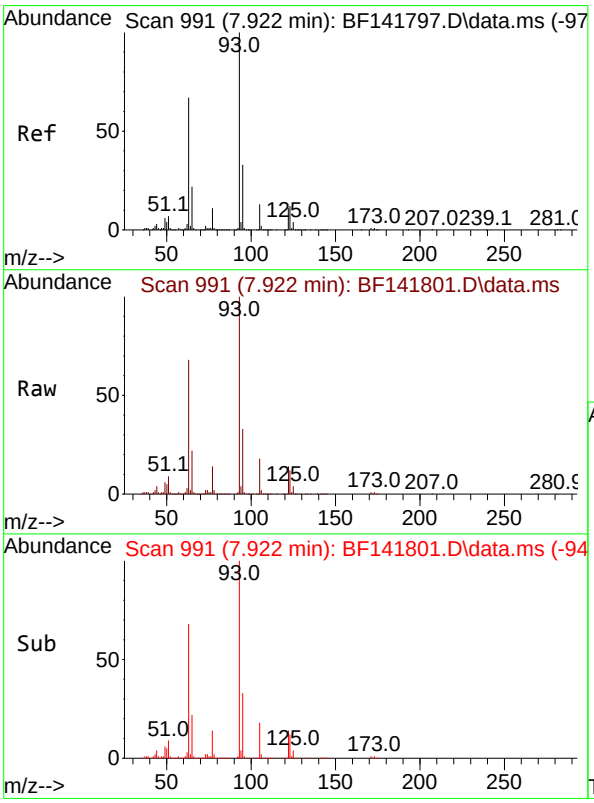
#27
2,4-Dimethylphenol
Concen: 41.931 ng
RT: 7.816 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:122 Resp: 708317

Ion	Ratio	Lower	Upper
122	100		
107	115.5	92.5	138.7
121	58.8	47.1	70.7

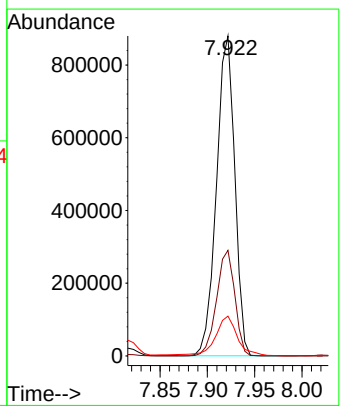


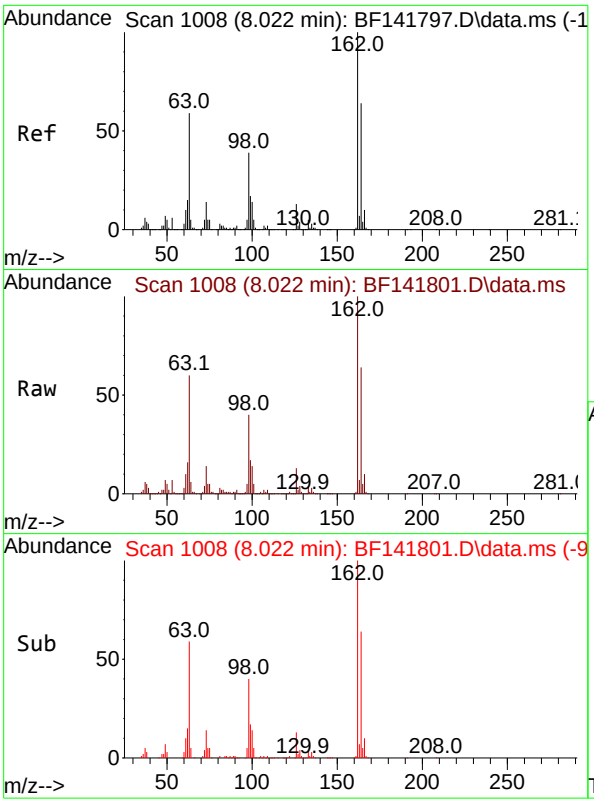


#28
bis(2-Chloroethoxy)methane
Concen: 40.357 ng
RT: 7.922 min Scan# 991
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 93 Resp: 1183035

Ion	Ratio	Lower	Upper
93	100		
95	33.0	26.5	39.7
123	12.4	10.0	15.0



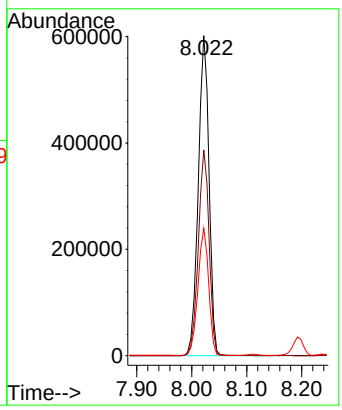


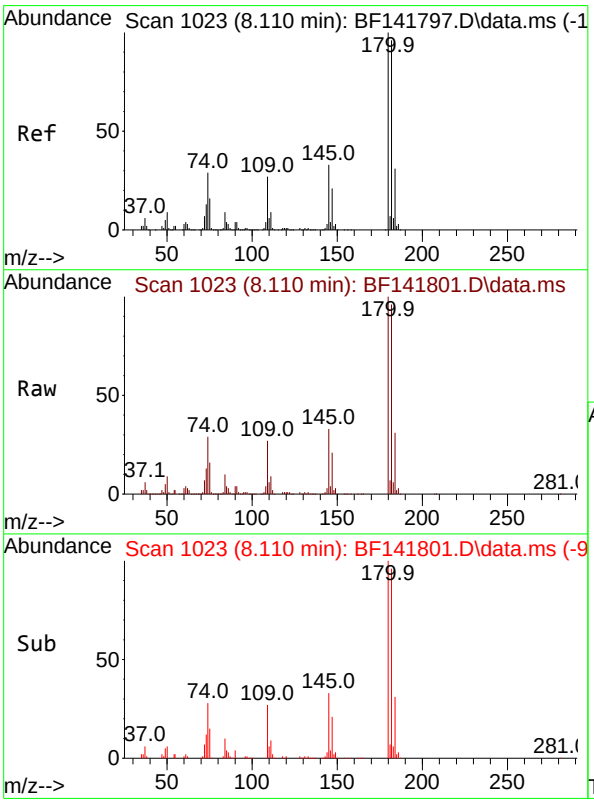
#29
2,4-Dichlorophenol
Concen: 42.157 ng
RT: 8.022 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:162 Resp: 821536

Ion	Ratio	Lower	Upper
162	100		
164	64.3	44.3	84.3
98	39.8	19.6	59.6

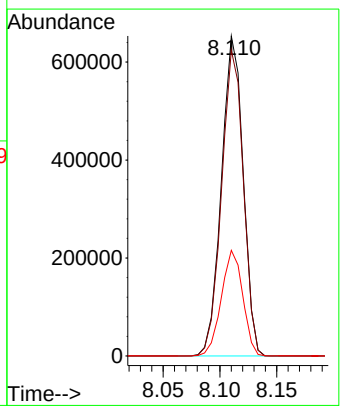


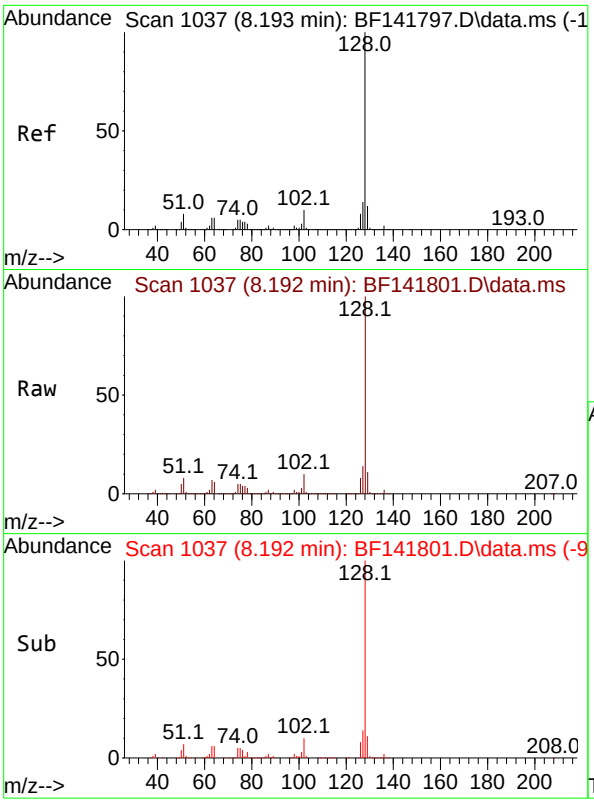


#30
1,2,4-Trichlorobenzene
Concen: 40.757 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:180 Resp: 870339

Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.8	115.2
145	33.0	26.4	39.6



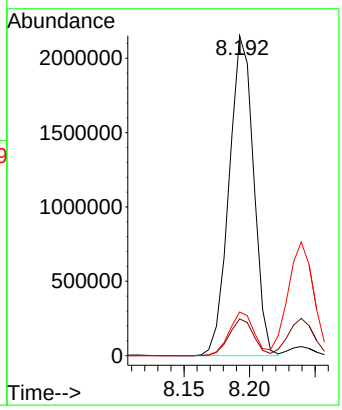


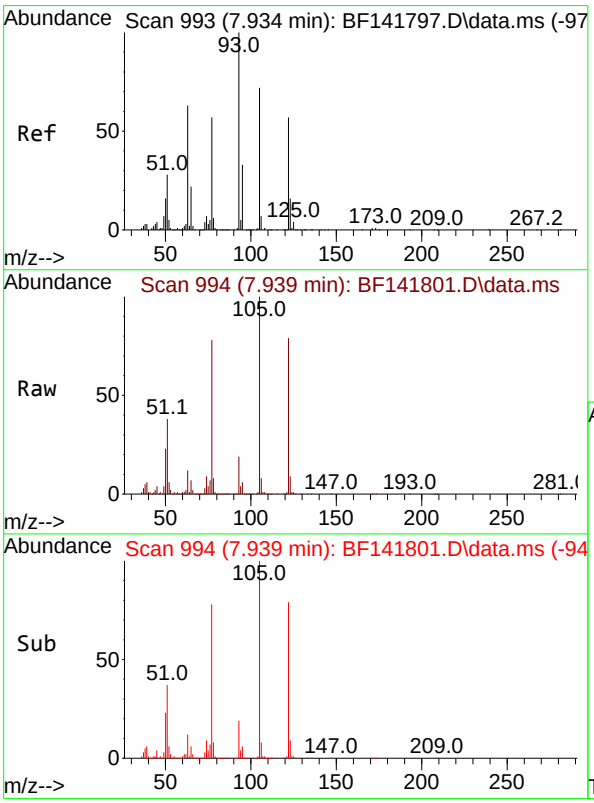
#31
Naphthalene
Concen: 39.854 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:128 Resp: 2800645

Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.2	13.8
127	13.7	11.0	16.4

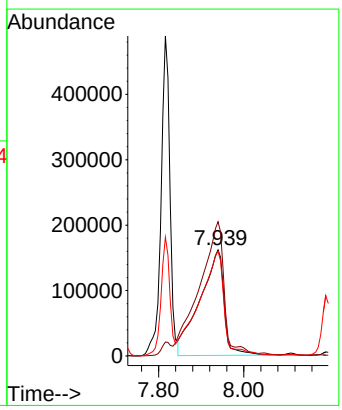


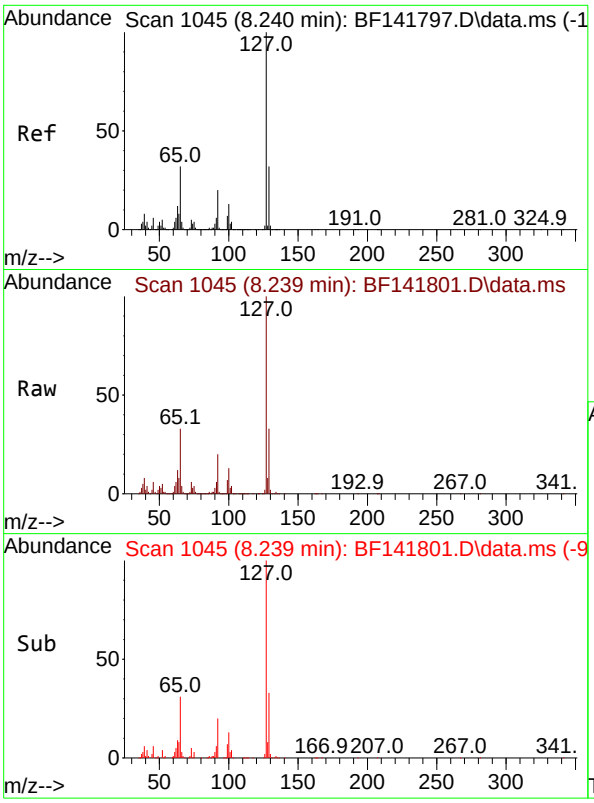


#32
Benzoic acid
Concen: 45.545 ng
RT: 7.939 min Scan# 994
Delta R.T. 0.005 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:122 Resp: 635541

Ion	Ratio	Lower	Upper
122	100		
105	126.6	105.8	145.8
77	98.8	79.9	119.9



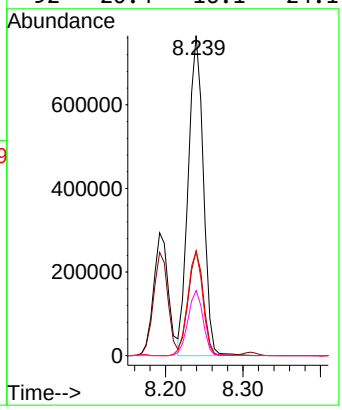


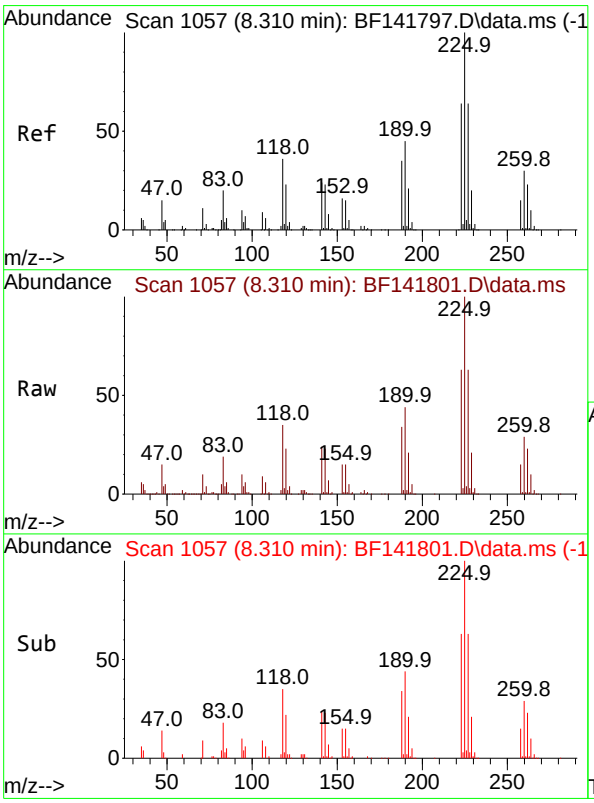
#33
4-Chloroaniline
Concen: 40.096 ng
RT: 8.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:127 Resp: 1033113

Ion	Ratio	Lower	Upper
127	100		
129	32.7	26.1	39.1
65	32.6	25.7	38.5
92	20.4	16.1	24.1

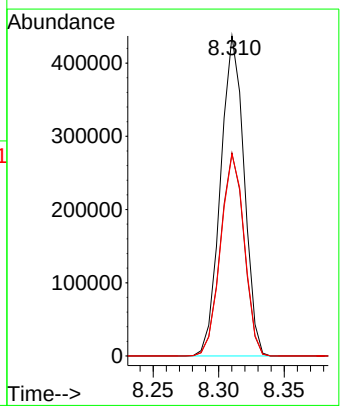


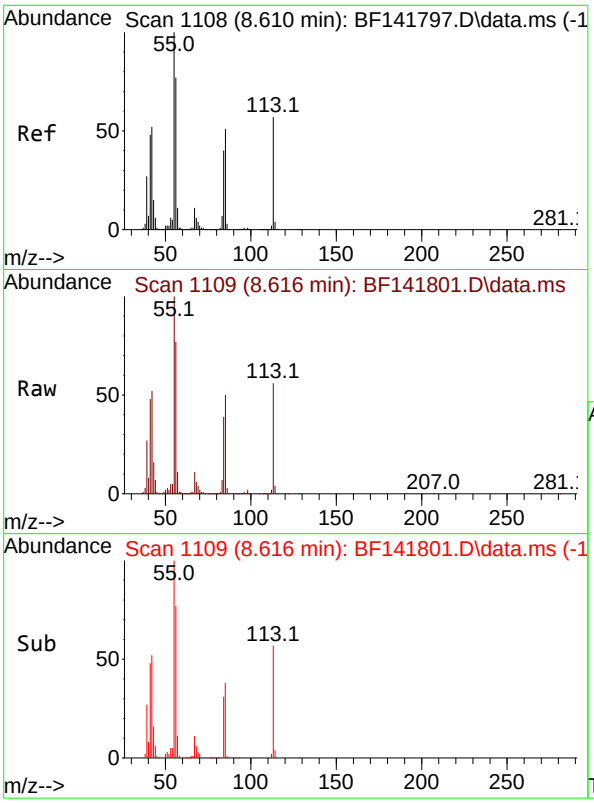


#34
Hexachlorobutadiene
Concen: 41.042 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:225 Resp: 544620

Ion	Ratio	Lower	Upper
225	100		
223	63.4	51.4	77.2
227	63.0	51.6	77.4



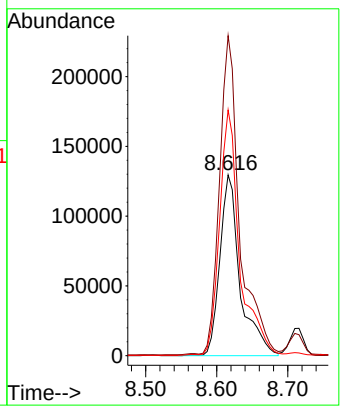


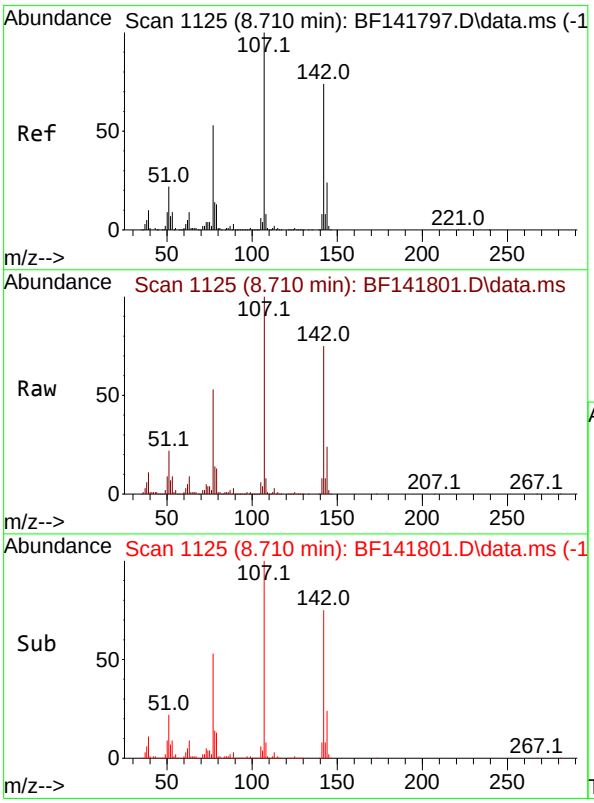
#35
Caprolactam
Concen: 42.737 ng
RT: 8.616 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:113 Resp: 256209

Ion	Ratio	Lower	Upper
113	100		
55	177.0	155.6	195.6
56	135.9	114.6	154.6

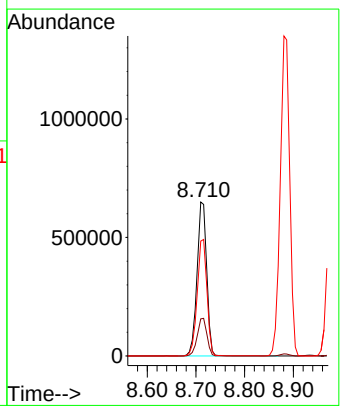


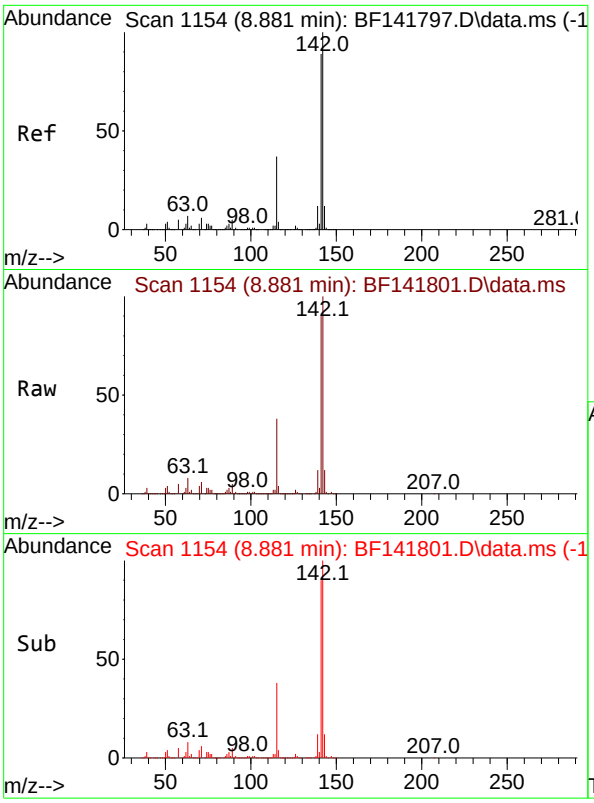


#36
4-Chloro-3-methylphenol
Concen: 41.844 ng
RT: 8.710 min Scan# 1125
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:107 Resp: 905842

Ion	Ratio	Lower	Upper
107	100		
144	24.1	19.4	29.0
142	74.6	59.4	89.0



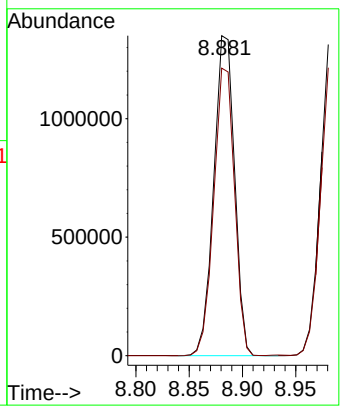


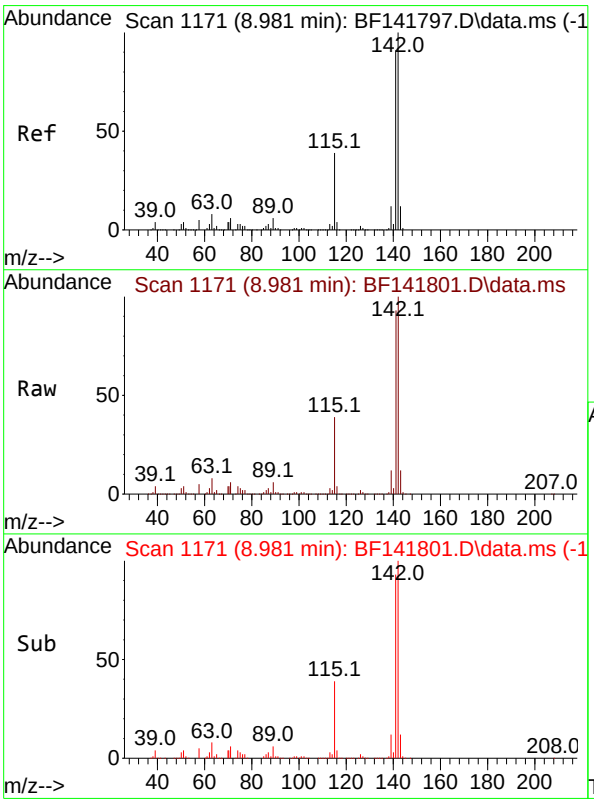
#37
2-Methylnaphthalene
Concen: 39.710 ng
RT: 8.881 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:142 Resp: 1830313

Ion	Ratio	Lower	Upper
142	100		
141	89.9	71.1	106.7

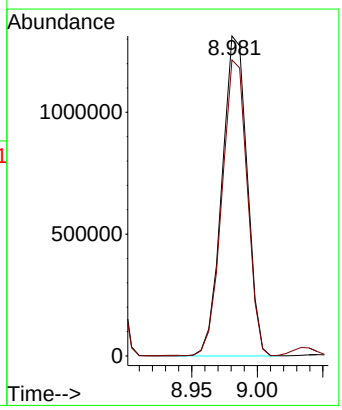


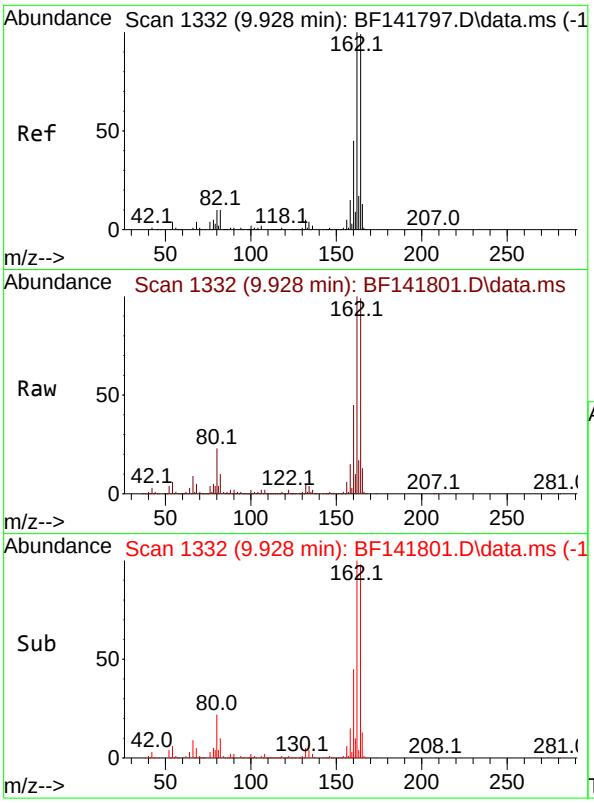


#38
1-Methylnaphthalene
Concen: 39.635 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:142 Resp: 1752937

Ion	Ratio	Lower	Upper
142	100		
141	92.5	73.1	109.7



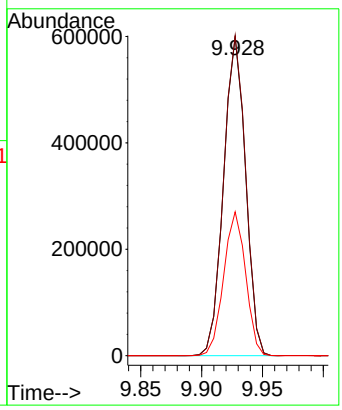


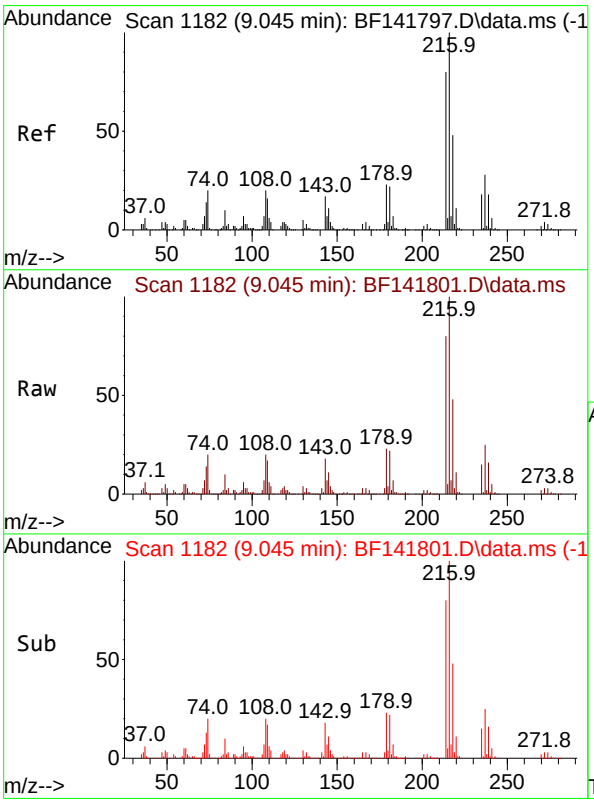
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:164 Resp: 753741

Ion	Ratio	Lower	Upper
164	100		
162	100.6	80.6	120.8
160	45.2	36.3	54.5

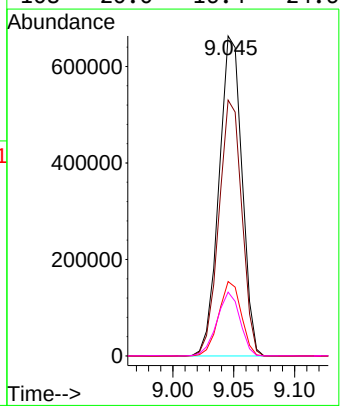


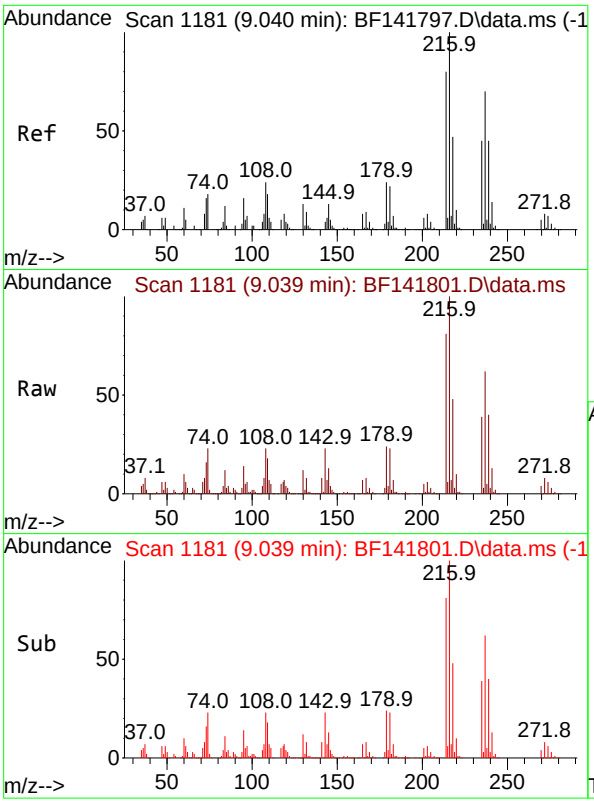


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.086 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:216 Resp: 872629

Ion	Ratio	Lower	Upper
216	100		
214	79.7	63.5	95.3
179	22.8	18.1	27.1
108	20.0	16.4	24.6



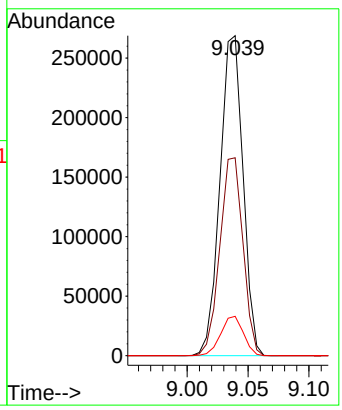


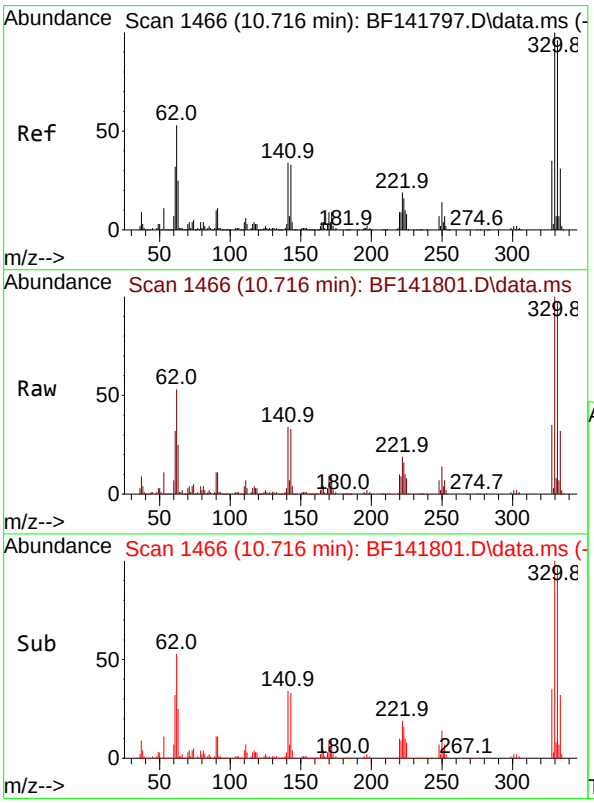
#41
Hexachlorocyclopentadiene
Concen: 38.975 ng
RT: 9.039 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:237 Resp: 354082

Ion	Ratio	Lower	Upper
237	100		
235	61.8	43.3	83.3
272	12.3	0.0	31.9

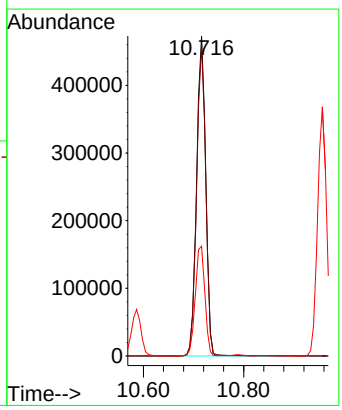


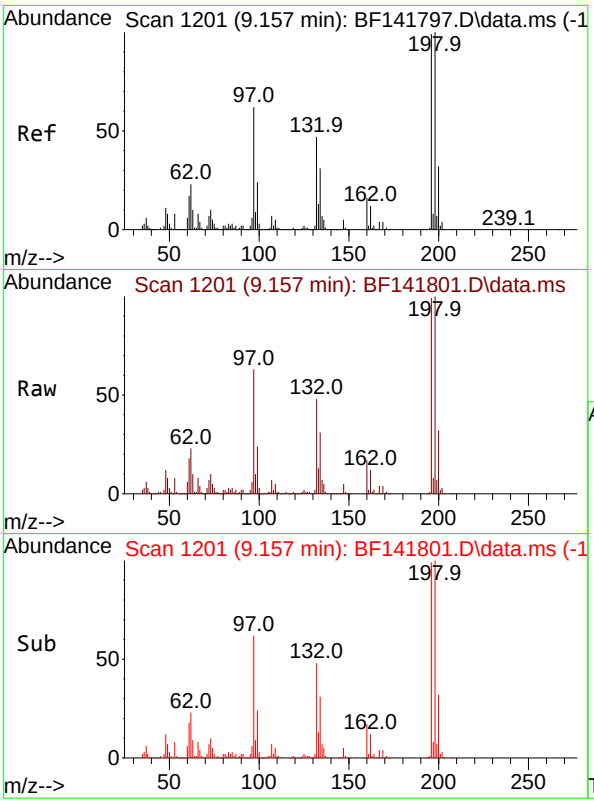


#42
2,4,6-Tribromophenol
Concen: 84.321 ng
RT: 10.716 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:330 Resp: 596677

Ion	Ratio	Lower	Upper
330	100		
332	96.9	76.6	115.0
141	36.1	29.0	43.4



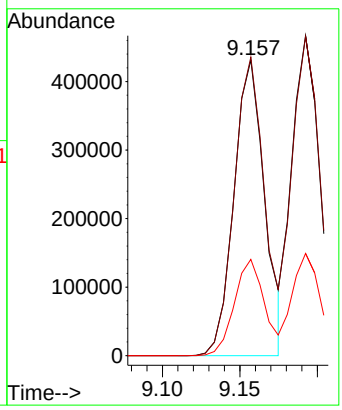


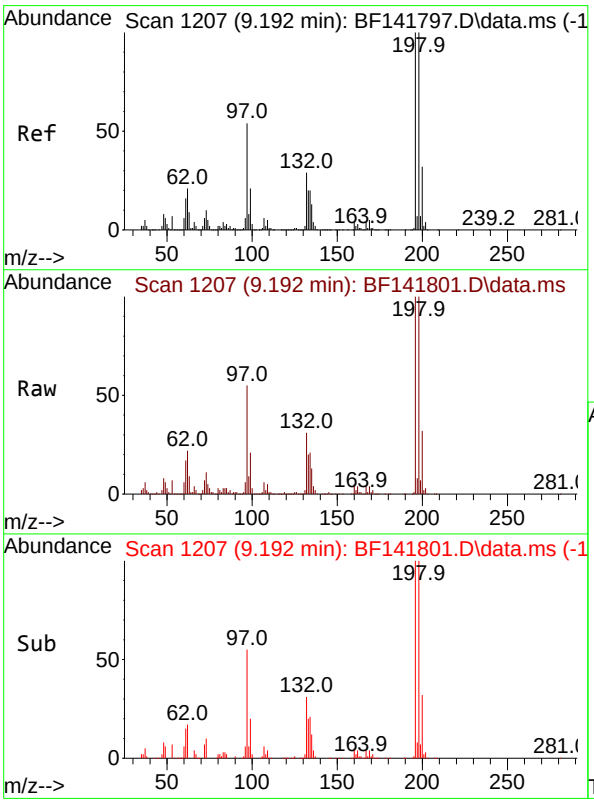
#43
2,4,6-Trichlorophenol
Concen: 42.156 ng
RT: 9.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:196 Resp: 592786

Ion	Ratio	Lower	Upper
196	100		
198	101.0	80.4	120.6
200	32.6	25.7	38.5

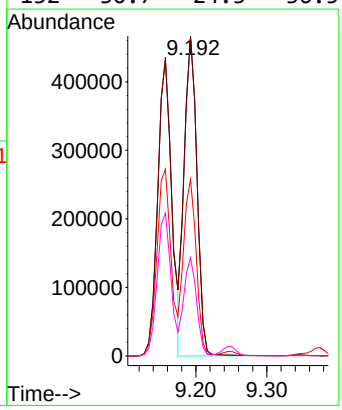


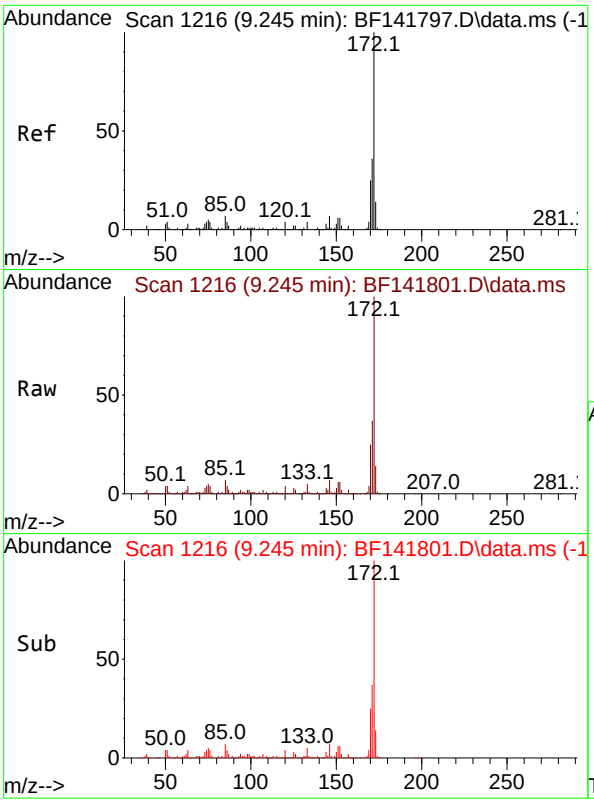


#44
2,4,5-Trichlorophenol
Concen: 41.806 ng
RT: 9.192 min Scan# 1207
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:196 Resp: 582125

Ion	Ratio	Lower	Upper
196	100		
198	99.8	79.7	119.5
97	55.2	44.2	66.2
132	30.7	24.3	36.5



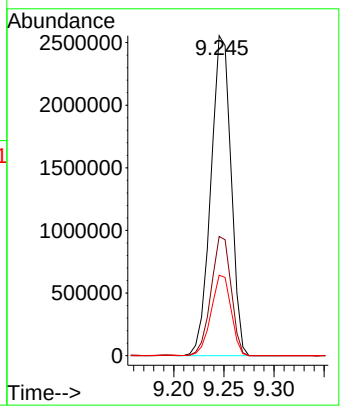


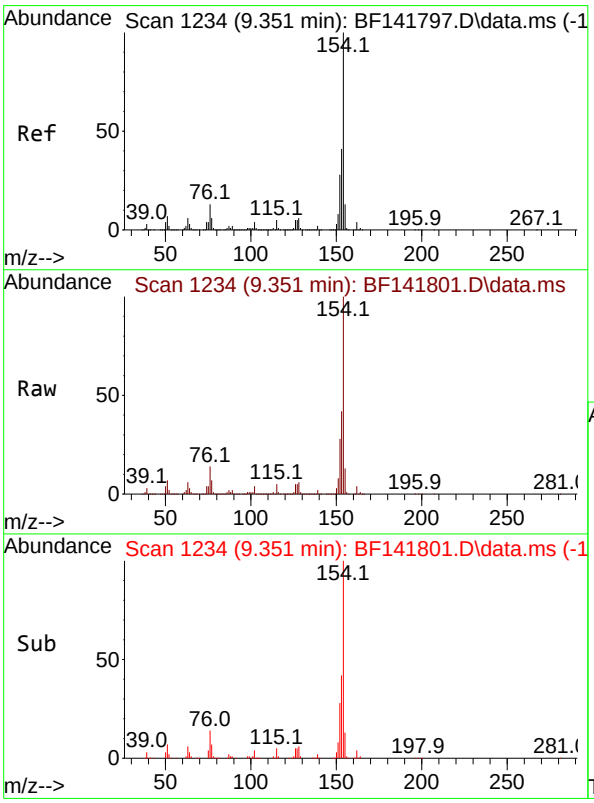
#45
2-Fluorobiphenyl
Concen: 75.957 ng
RT: 9.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:172 Resp: 3570541

Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.2	43.8
170	25.1	19.7	29.5

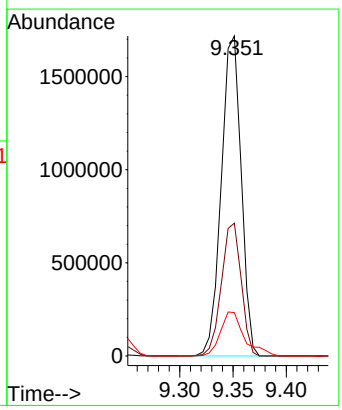


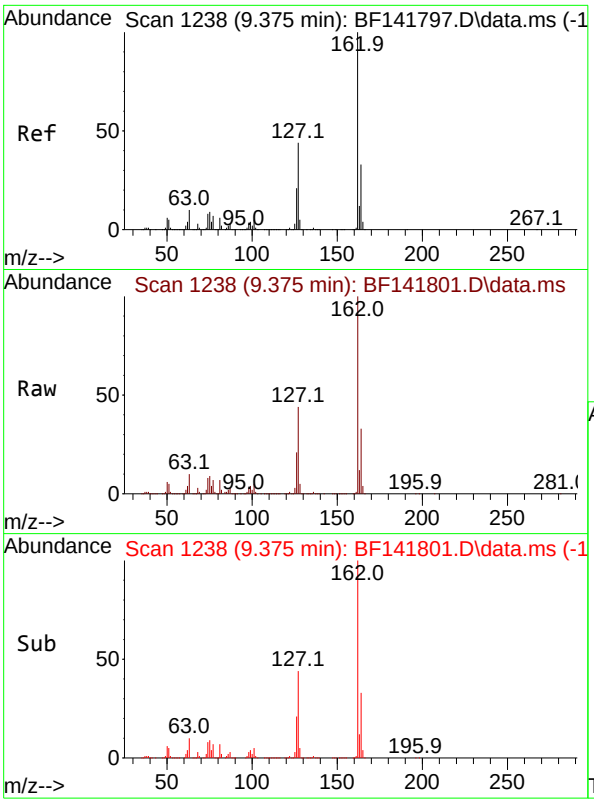


#46
1,1'-Biphenyl
Concen: 38.864 ng
RT: 9.351 min Scan# 1234
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:154 Resp: 2229687

Ion	Ratio	Lower	Upper
154	100		
153	41.5	21.4	61.4
76	13.6	0.0	33.4



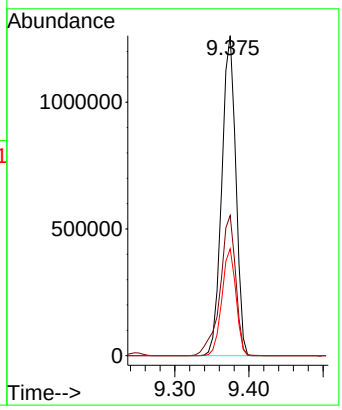


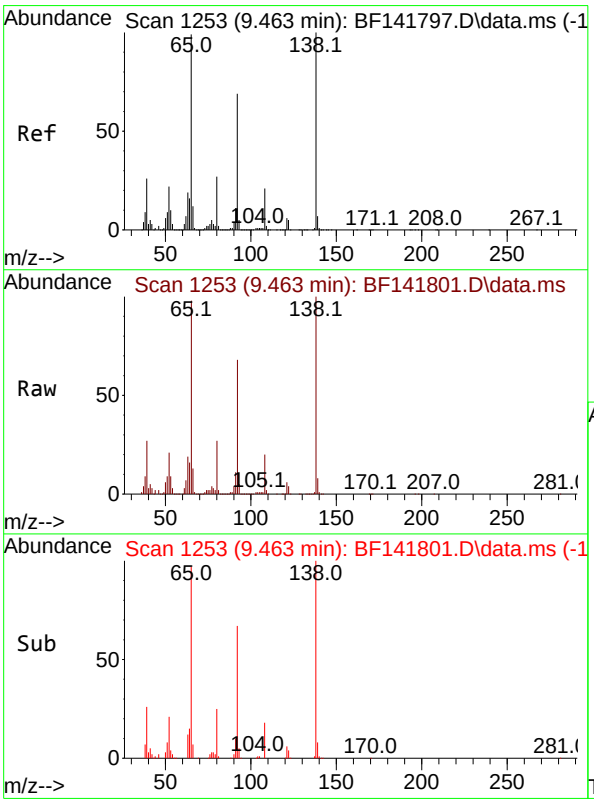
#47
2-Chloronaphthalene
Concen: 39.288 ng
RT: 9.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:162 Resp: 1663643

Ion	Ratio	Lower	Upper
162	100		
127	43.8	35.0	52.6
164	33.4	26.6	40.0

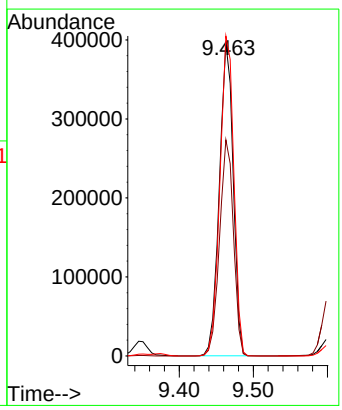


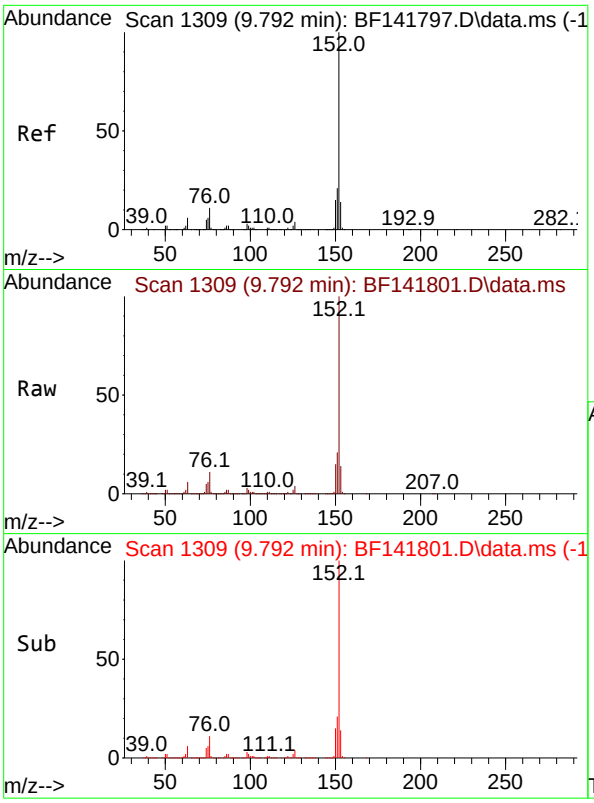


#48
2-Nitroaniline
Concen: 44.684 ng
RT: 9.463 min Scan# 1253
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 65 Resp: 514104

Ion	Ratio	Lower	Upper
65	100		
92	69.1	55.7	83.5
138	102.2	80.6	121.0



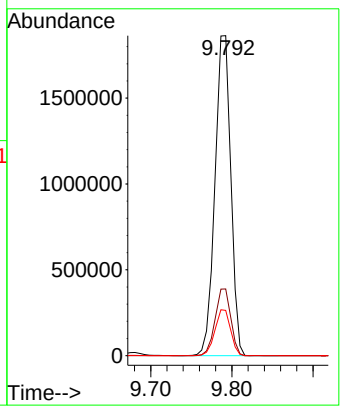


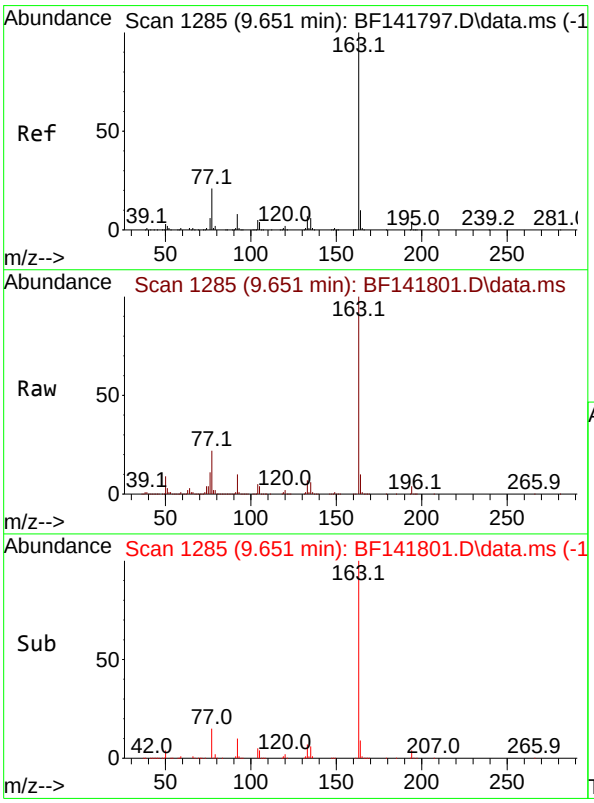
#49
Acenaphthylene
Concen: 39.907 ng
RT: 9.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:152 Resp: 2533613

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	24.8
153	14.1	11.2	16.8

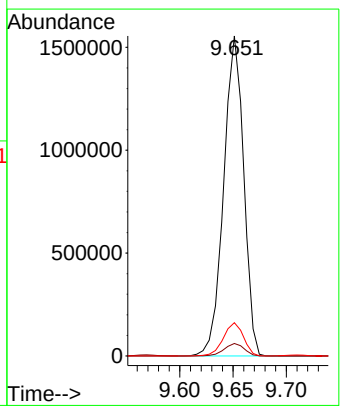


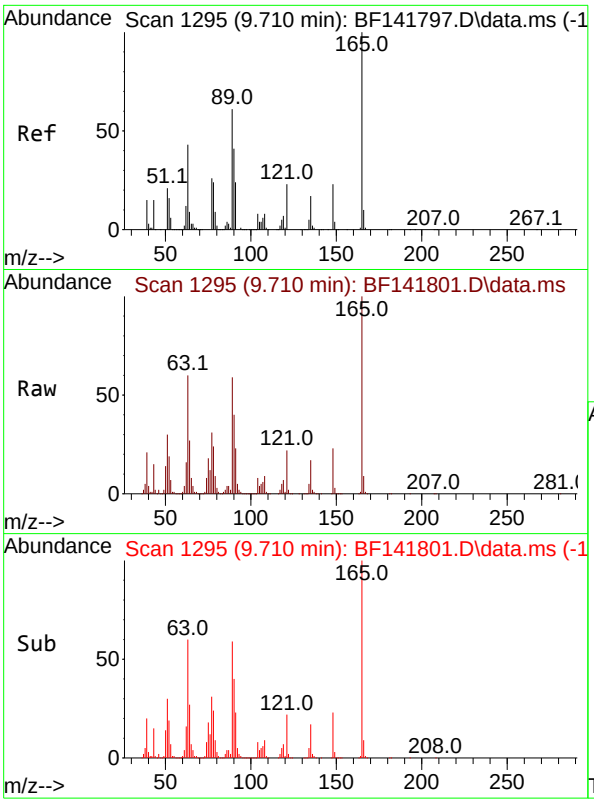


#50
Dimethylphthalate
Concen: 40.250 ng
RT: 9.651 min Scan# 1285
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:163 Resp: 2031698

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.4	8.4	12.6



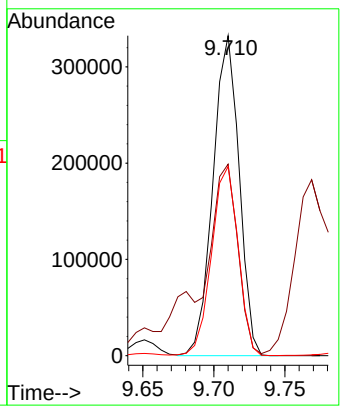


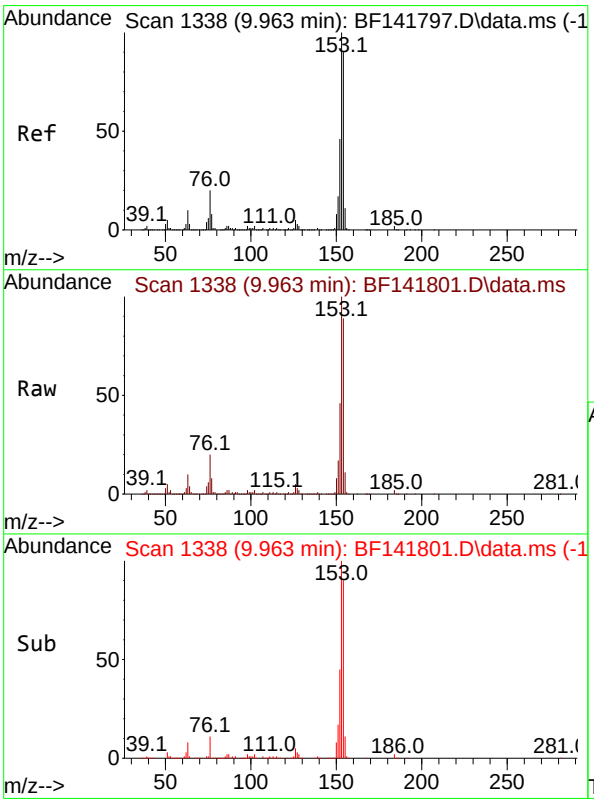
#51
2,6-Dinitrotoluene
Concen: 44.292 ng
RT: 9.710 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:165 Resp: 425445

Ion	Ratio	Lower	Upper
165	100		
63	59.8	49.5	74.3
89	59.1	49.0	73.4

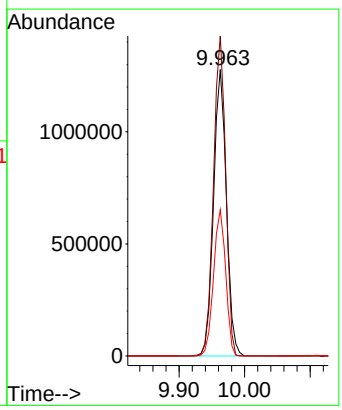


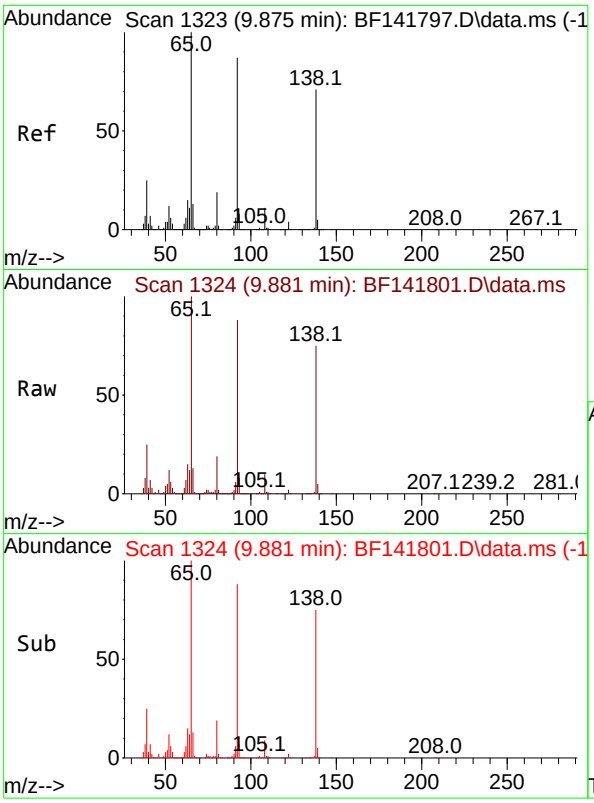


#52
Acenaphthene
Concen: 40.488 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:154 Resp: 1734464

Ion	Ratio	Lower	Upper
154	100		
153	111.7	88.7	133.1
152	51.0	40.9	61.3



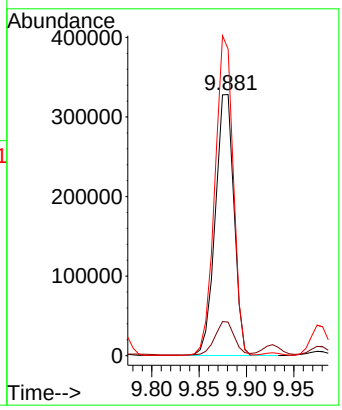


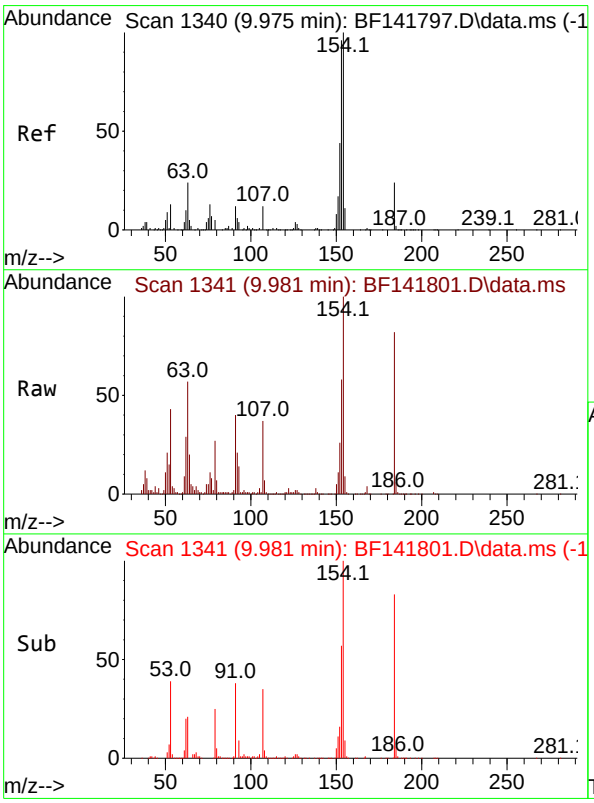
#53
3-Nitroaniline
Concen: 43.938 ng
RT: 9.881 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:138 Resp: 449174

Ion	Ratio	Lower	Upper
138	100		
108	12.9	12.7	19.1
92	117.4	97.9	146.9

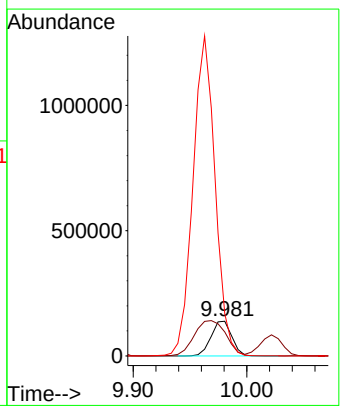


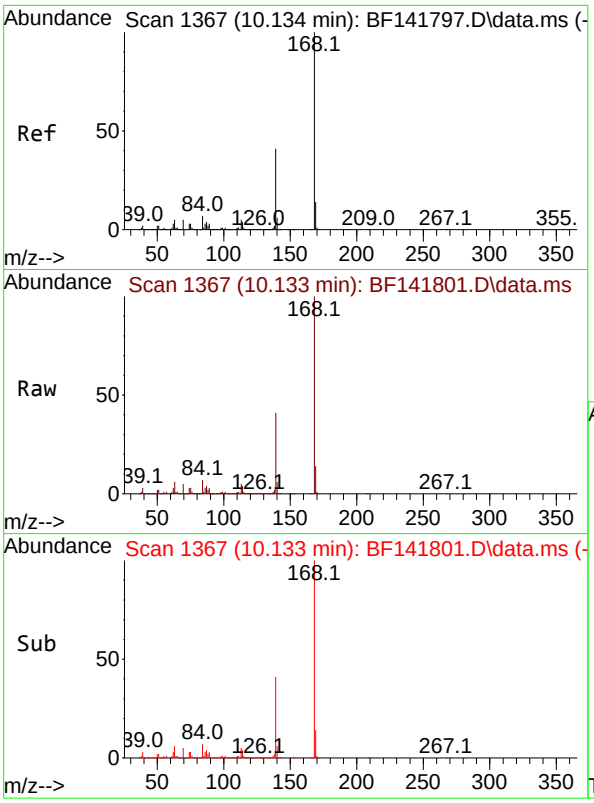


#54
2,4-Dinitrophenol
Concen: 47.494 ng
RT: 9.981 min Scan# 1341
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:184 Resp: 176378

Ion	Ratio	Lower	Upper
184	100		
63	69.1	79.0	118.6#
154	121.2	335.8	503.8#



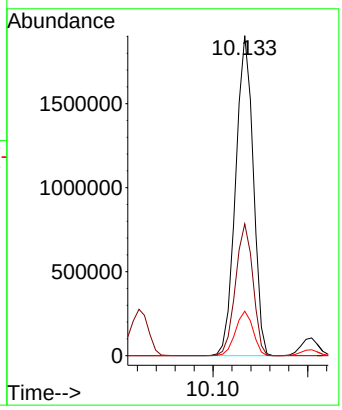


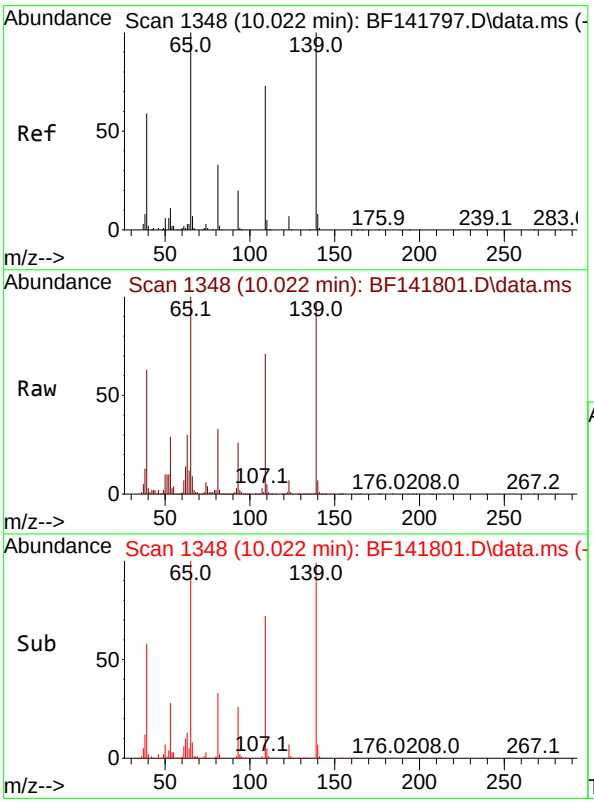
#55
Dibenzofuran
Concen: 39.391 ng
RT: 10.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:168 Resp: 2456099

Ion	Ratio	Lower	Upper
168	100		
139	41.2	32.9	49.3
169	13.9	11.1	16.7

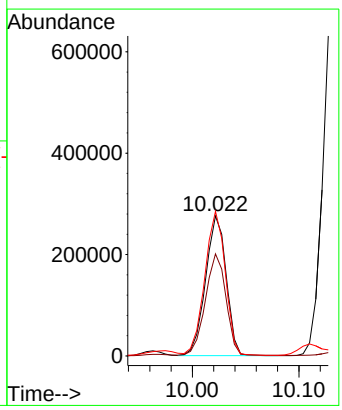


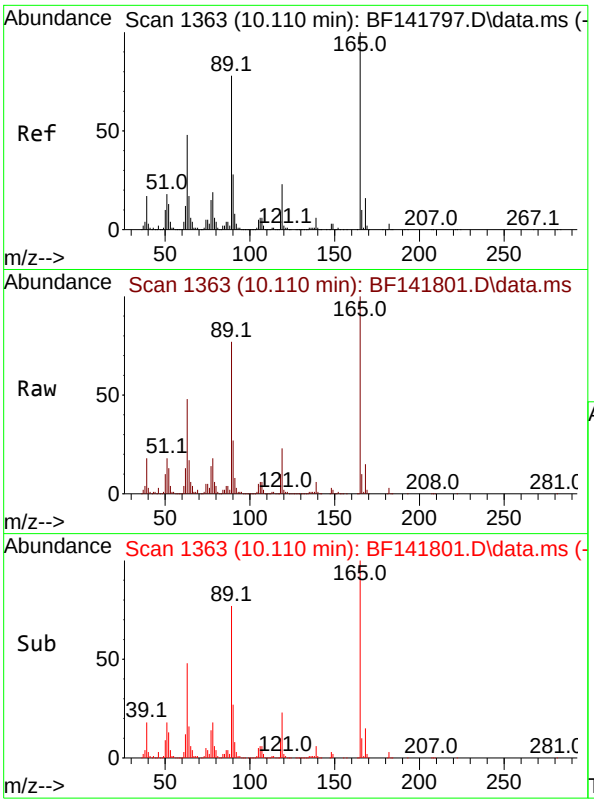


#56
4-Nitrophenol
Concen: 49.725 ng
RT: 10.022 min Scan# 1348
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:139 Resp: 370704

Ion	Ratio	Lower	Upper
139	100		
109	72.9	53.4	93.4
65	103.3	82.1	122.1



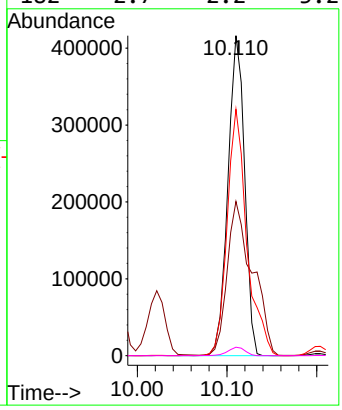


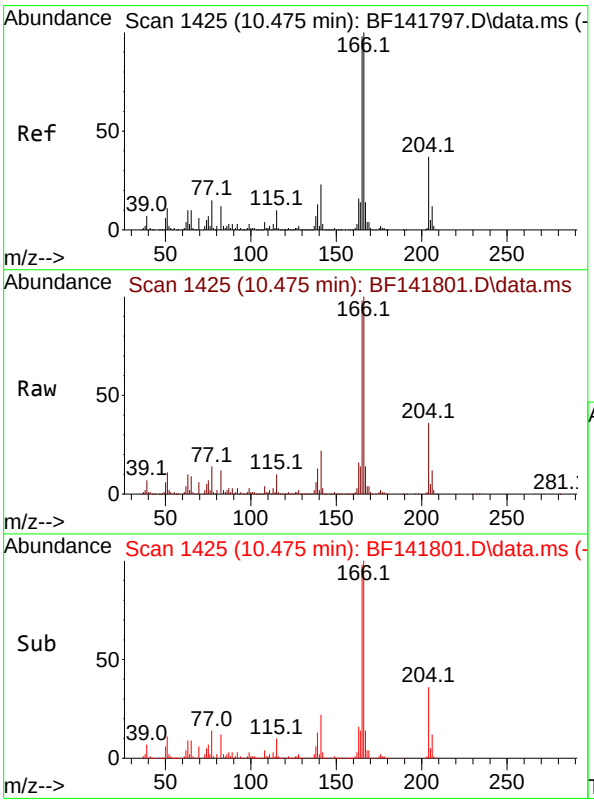
#57
2,4-Dinitrotoluene
Concen: 45.704 ng
RT: 10.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:165 Resp: 536914

Ion	Ratio	Lower	Upper
165	100		
63	48.2	38.8	58.2
89	77.0	62.6	94.0
182	2.7	2.2	3.2

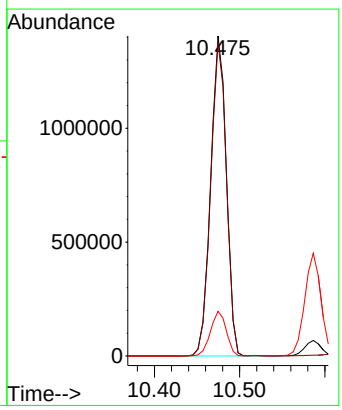


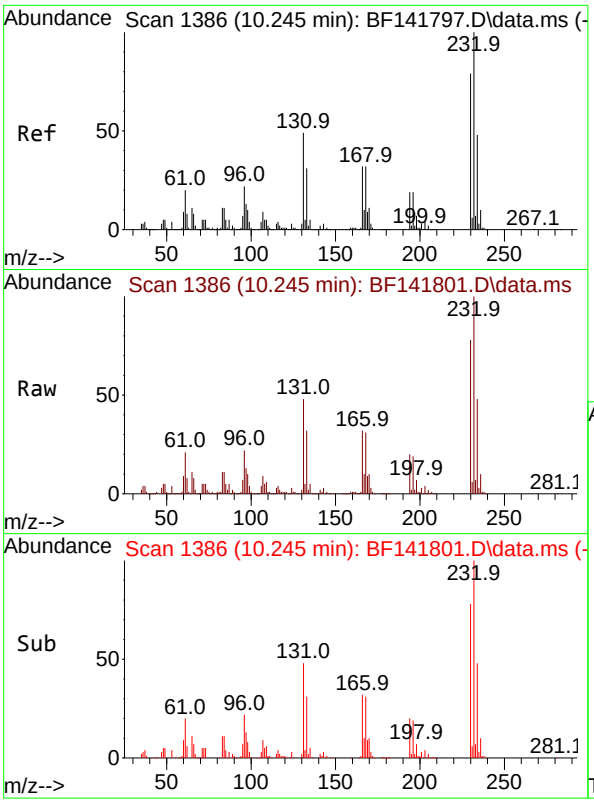


#58
Fluorene
Concen: 38.547 ng
RT: 10.475 min Scan# 1425
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:166 Resp: 1800318

Ion	Ratio	Lower	Upper
166	100		
165	97.8	78.6	117.8
167	14.0	11.0	16.4



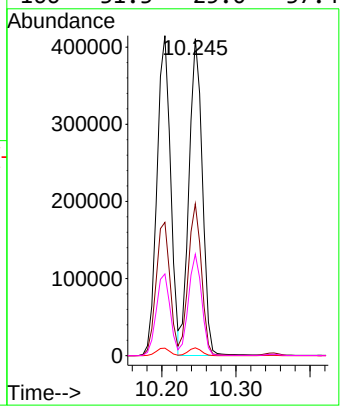


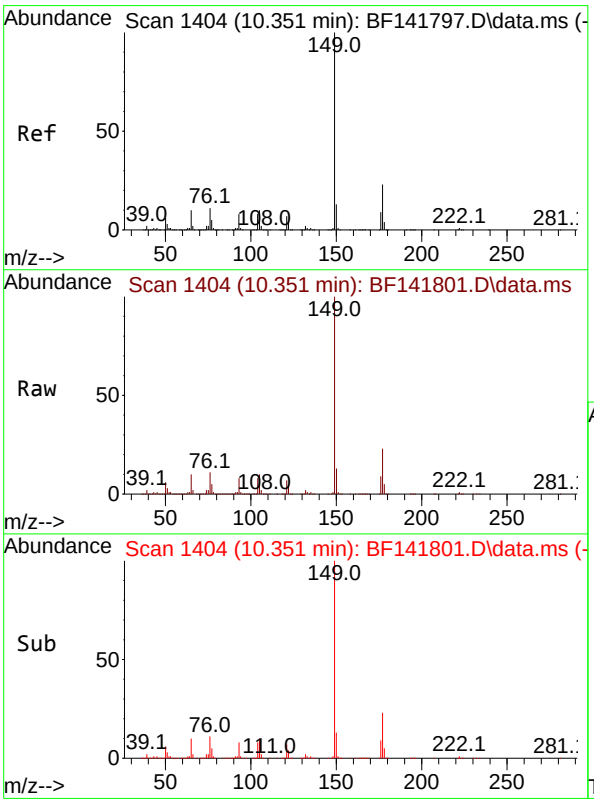
#59
2,3,4,6-Tetrachlorophenol
Concen: 42.607 ng
RT: 10.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:232 Resp: 515976

Ion	Ratio	Lower	Upper
232	100		
131	47.1	37.8	56.8
130	2.5	2.0	3.0
166	31.3	25.0	37.4

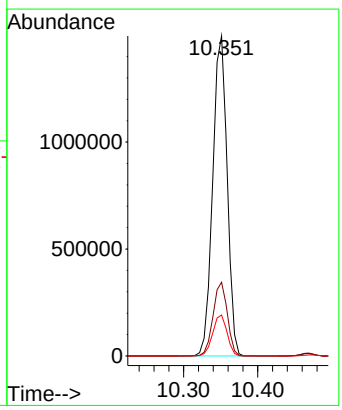


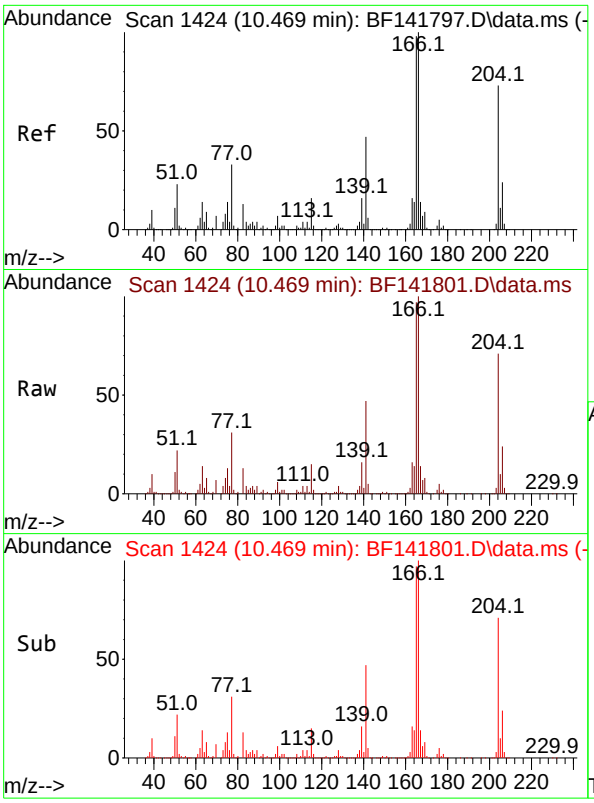


#60
Diethylphthalate
Concen: 39.896 ng
RT: 10.351 min Scan# 1404
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:149 Resp: 2018830

Ion	Ratio	Lower	Upper
149	100		
177	23.1	18.3	27.5
150	12.8	10.3	15.5



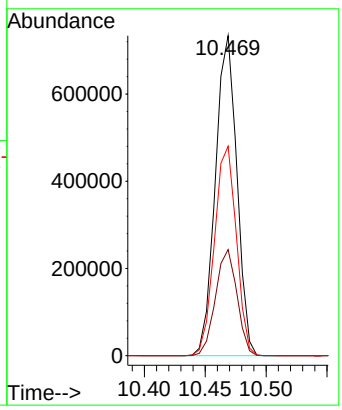


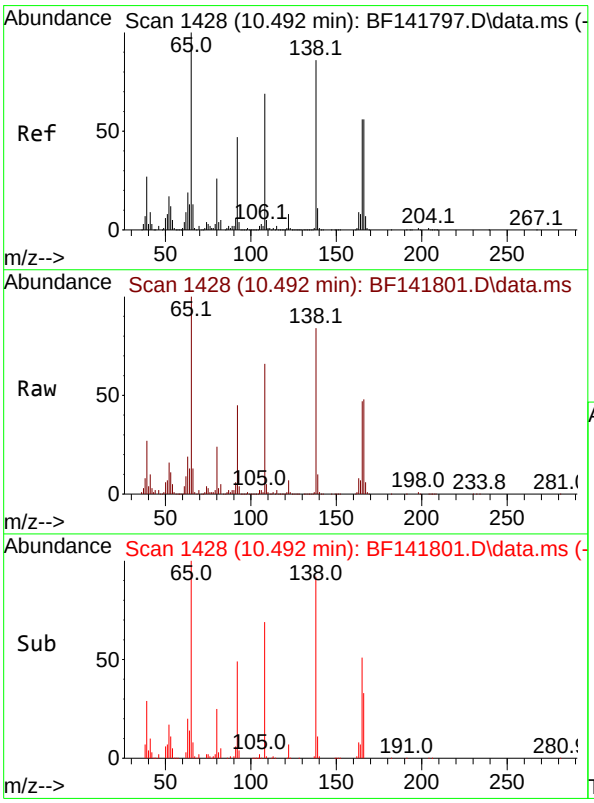
#61
4-Chlorophenyl-phenylether
Concen: 38.546 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:204 Resp: 901998

Ion	Ratio	Lower	Upper
204	100		
206	33.2	26.2	39.4
141	65.4	51.7	77.5

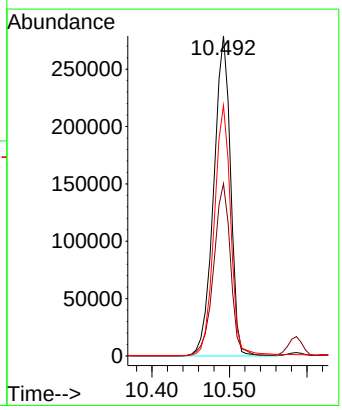


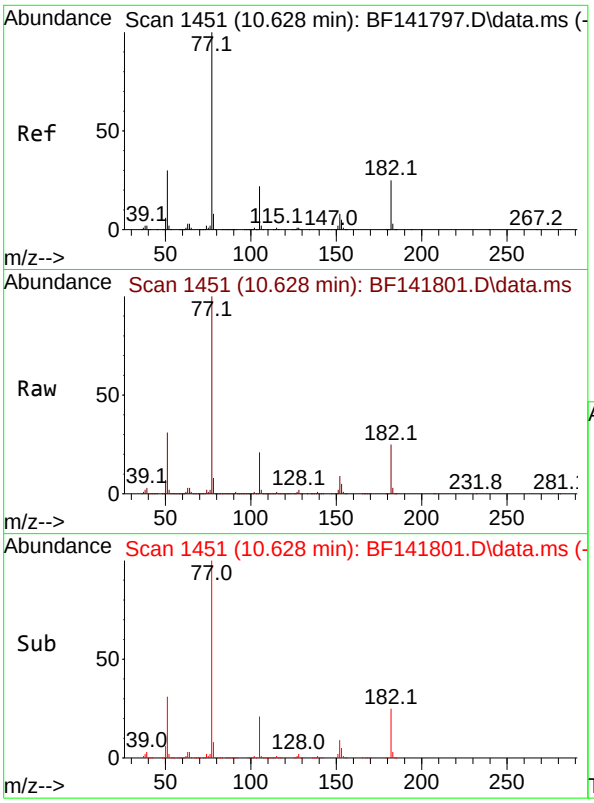


#62
4-Nitroaniline
Concen: 48.866 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:138 Resp: 421232

Ion	Ratio	Lower	Upper
138	100		
92	53.9	34.9	74.9
108	78.3	59.6	99.6



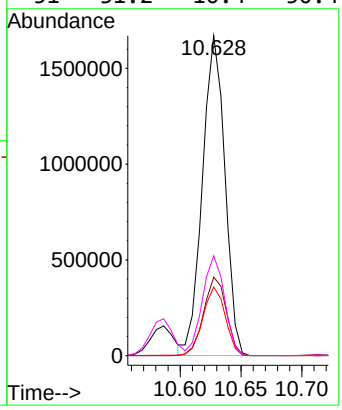


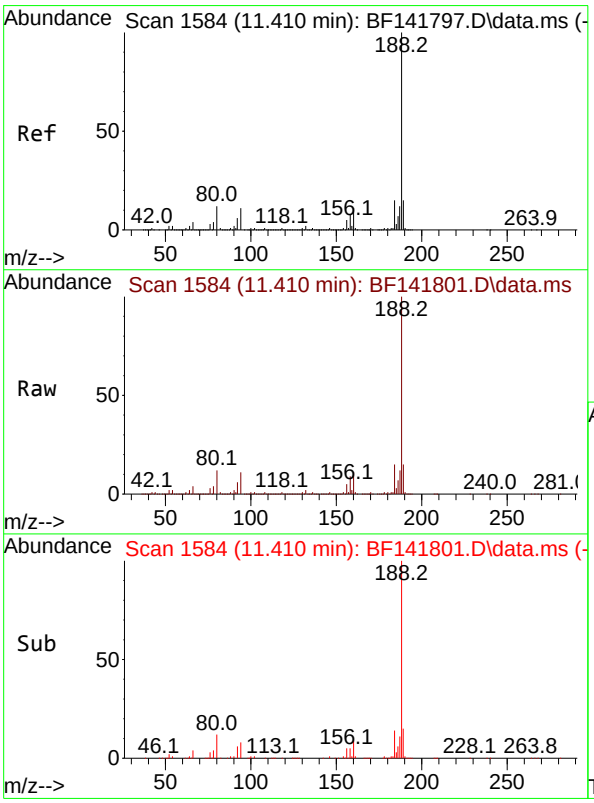
#63
Azobenzene
Concen: 40.188 ng
RT: 10.628 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion: 77 Resp: 2141198

Ion	Ratio	Lower	Upper
77	100		
182	24.5	4.2	44.2
105	21.4	1.5	41.5
51	31.2	10.4	50.4

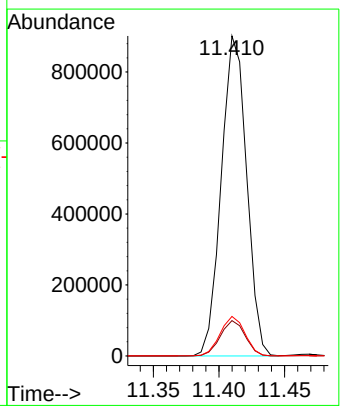


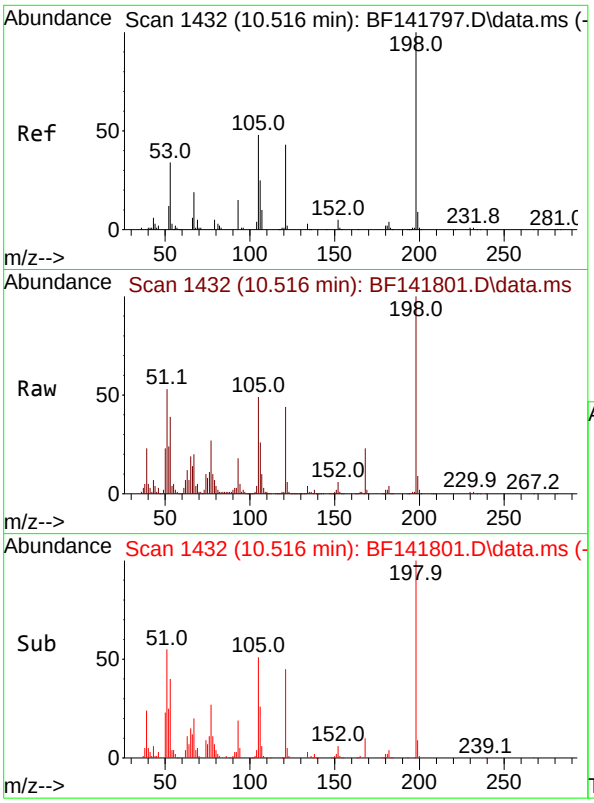


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:188 Resp: 1211382

Ion	Ratio	Lower	Upper
188	100		
94	11.1	8.9	13.3
80	12.3	9.7	14.5



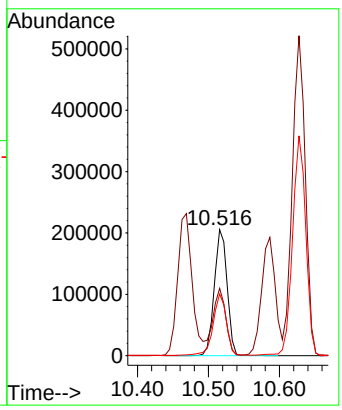


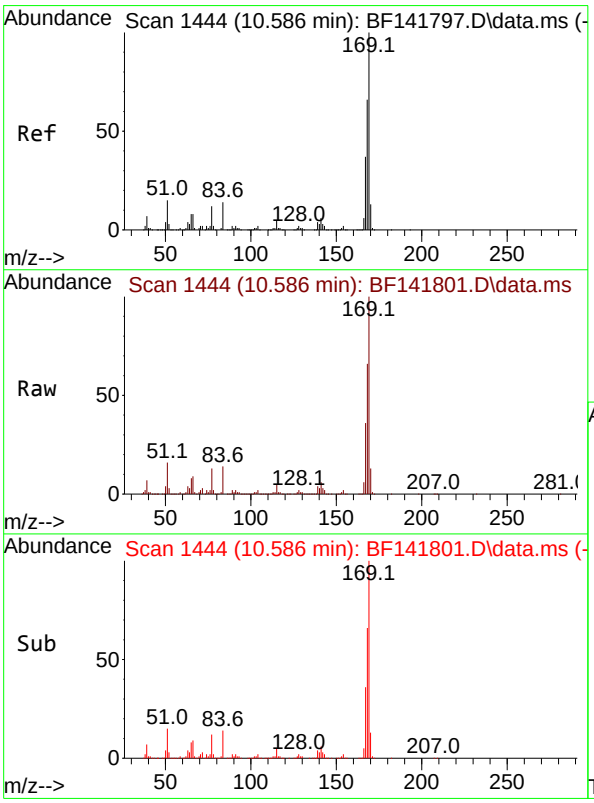
#65
4,6-Dinitro-2-methylphenol
Concen: 45.441 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:198 Resp: 256241

Ion	Ratio	Lower	Upper
198	100		
51	53.4	32.1	72.1
105	49.0	28.5	68.5

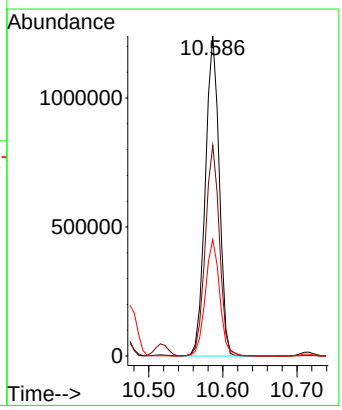


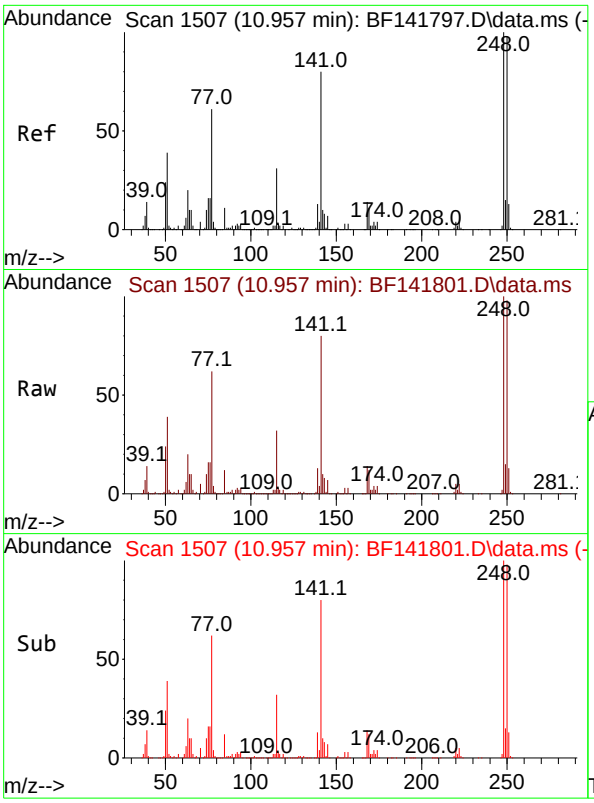


#66
n-Nitrosodiphenylamine
Concen: 40.431 ng
RT: 10.586 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:169 Resp: 1608263

Ion	Ratio	Lower	Upper
169	100		
168	65.9	53.0	79.6
167	36.4	29.3	43.9



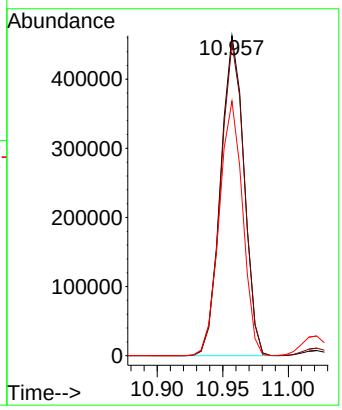


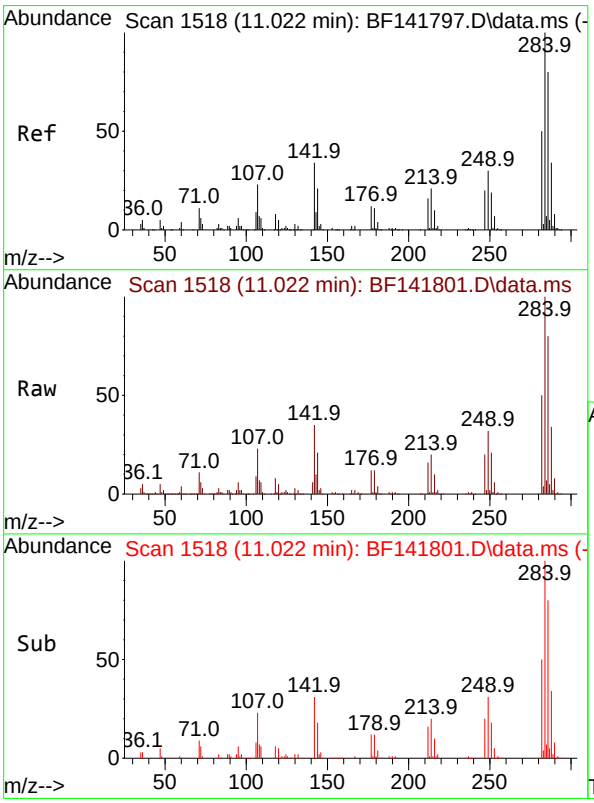
#67
4-Bromophenyl-phenylether
Concen: 40.614 ng
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:248 Resp: 574667

Ion	Ratio	Lower	Upper
248	100		
250	97.7	78.1	117.1
141	79.5	64.3	96.5

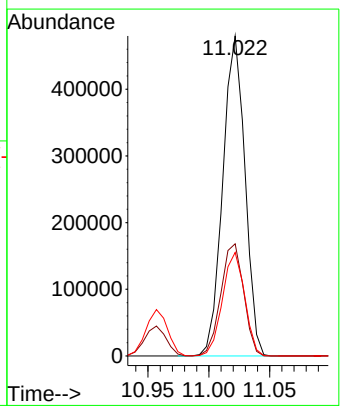


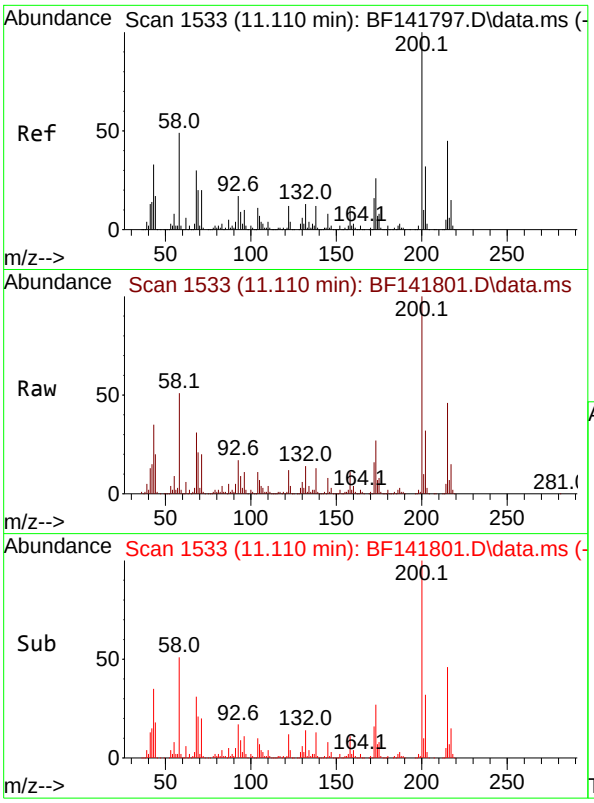


#68
Hexachlorobenzene
Concen: 40.697 ng
RT: 11.022 min Scan# 1518
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:284 Resp: 608067

Ion	Ratio	Lower	Upper
284	100		
142	35.0	28.2	42.2
249	32.4	25.5	38.3



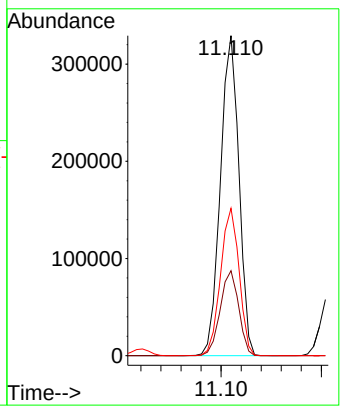


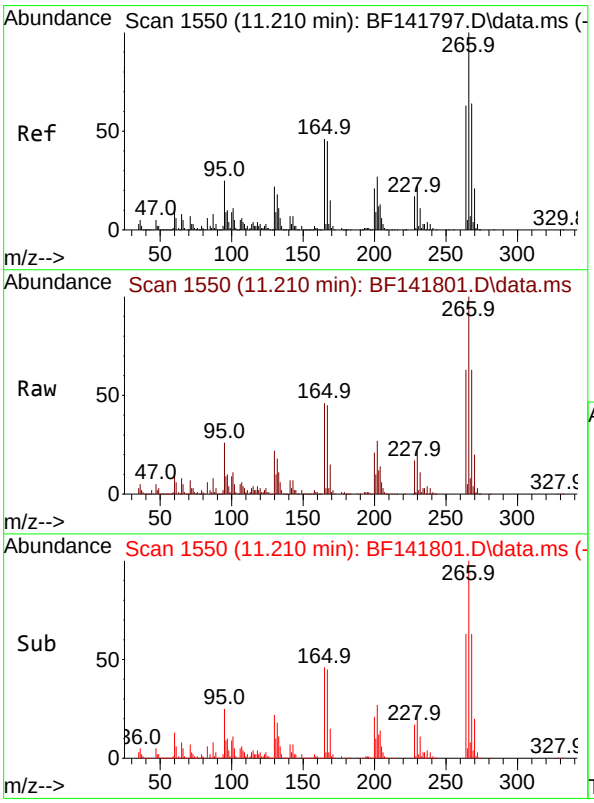
#69
Atrazine
Concen: 38.463 ng
RT: 11.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:200 Resp: 420733

Ion	Ratio	Lower	Upper
200	100		
173	26.5	5.6	45.6
215	46.1	25.3	65.3

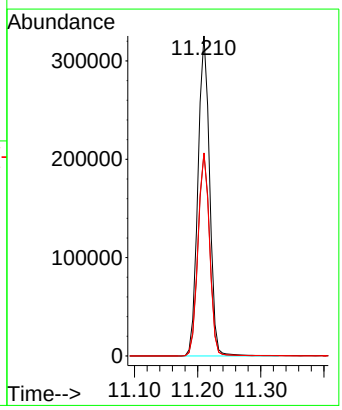


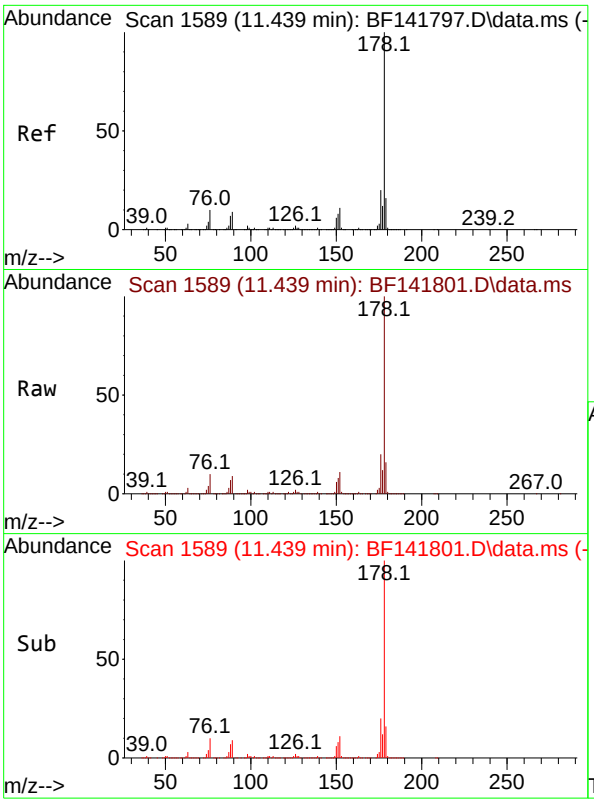


#70
Pentachlorophenol
Concen: 44.032 ng
RT: 11.210 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:266 Resp: 417260

Ion	Ratio	Lower	Upper
266	100		
268	63.5	50.9	76.3
264	63.4	50.2	75.4



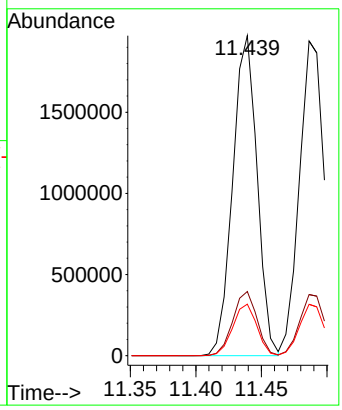


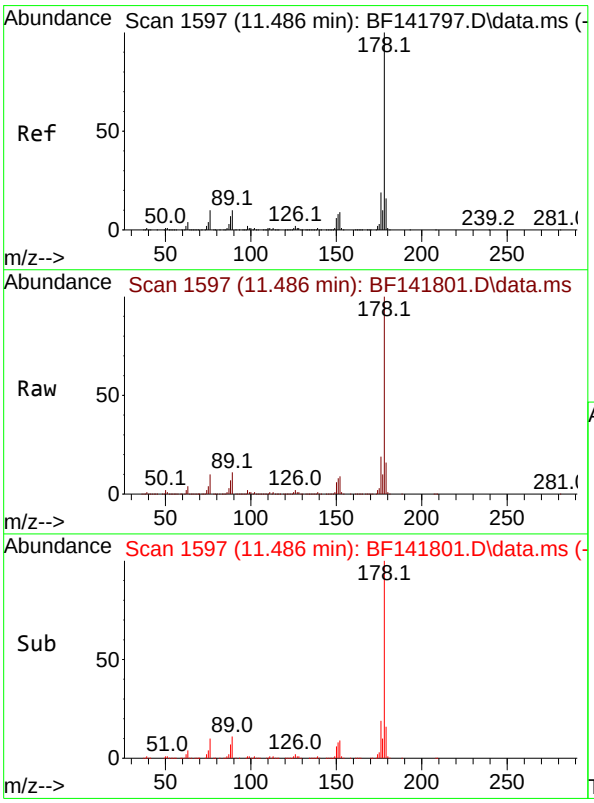
#71
Phenanthrene
Concen: 39.475 ng
RT: 11.439 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:178 Resp: 2557877

Ion	Ratio	Lower	Upper
178	100		
176	20.0	16.0	24.0
179	16.1	12.6	19.0

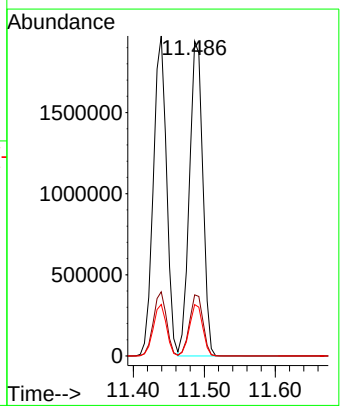


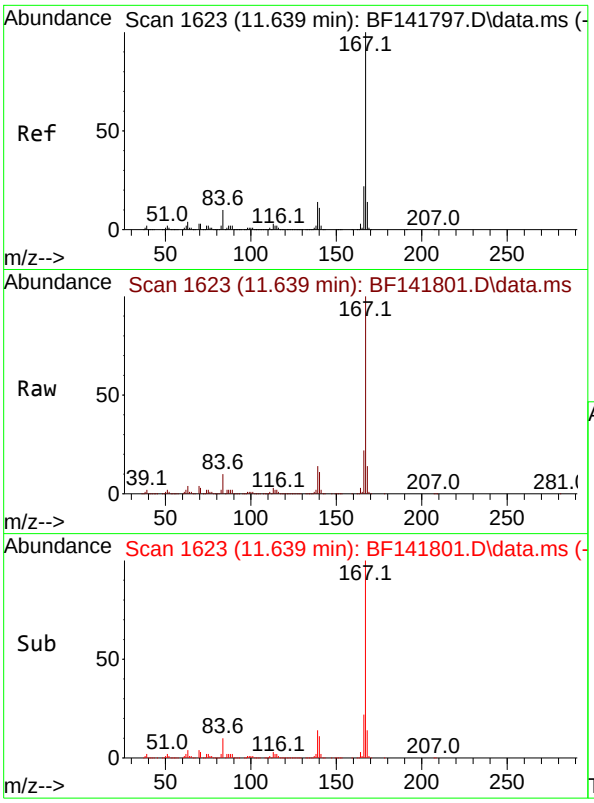


#72
Anthracene
Concen: 39.126 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:178 Resp: 2540876

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.0
179	16.3	12.8	19.2



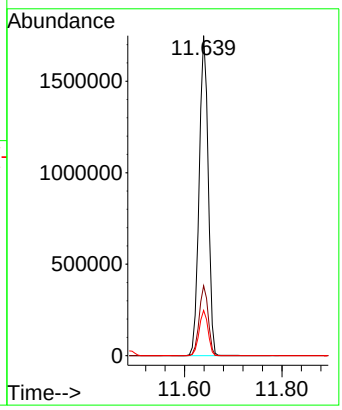


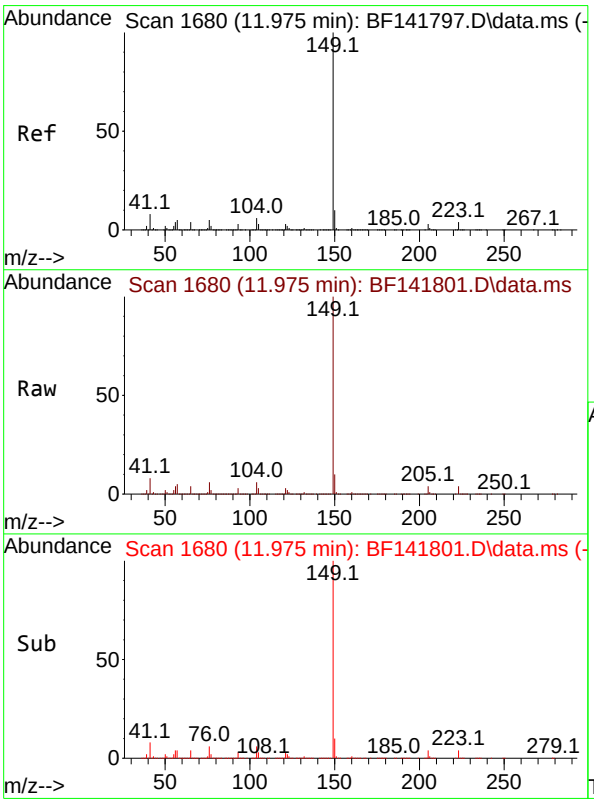
#73
Carbazole
Concen: 39.317 ng
RT: 11.639 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:167 Resp: 2254761

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.5	26.3
139	14.2	11.3	16.9

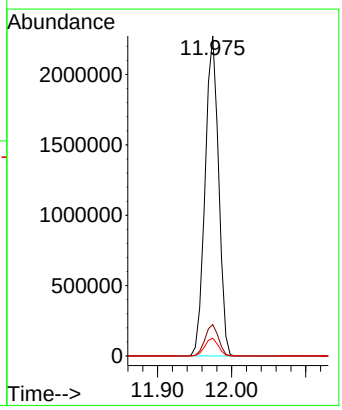


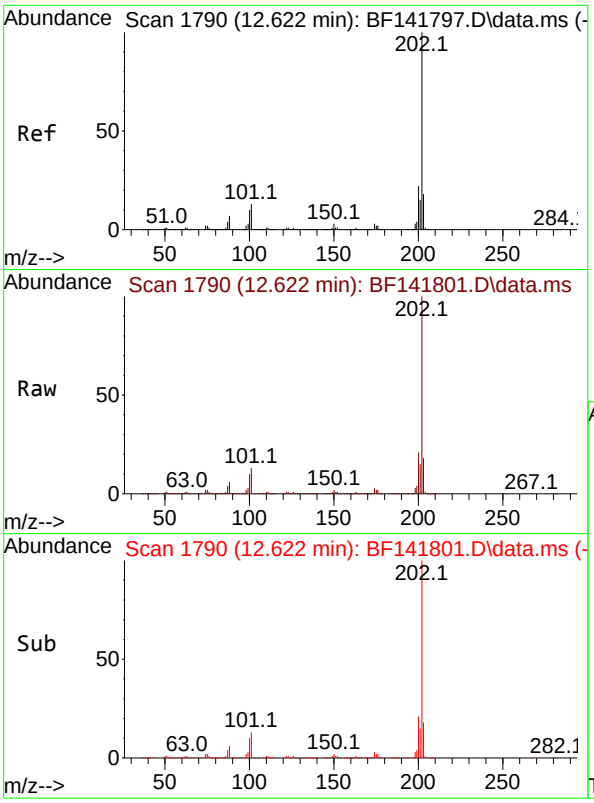


#74
Di-n-butylphthalate
Concen: 39.540 ng
RT: 11.975 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:149 Resp: 2874276

Ion	Ratio	Lower	Upper
149	100		
150	9.8	7.7	11.5
104	5.5	4.4	6.6



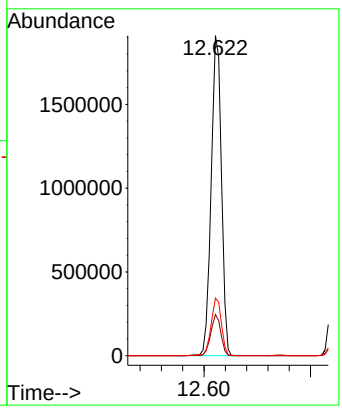


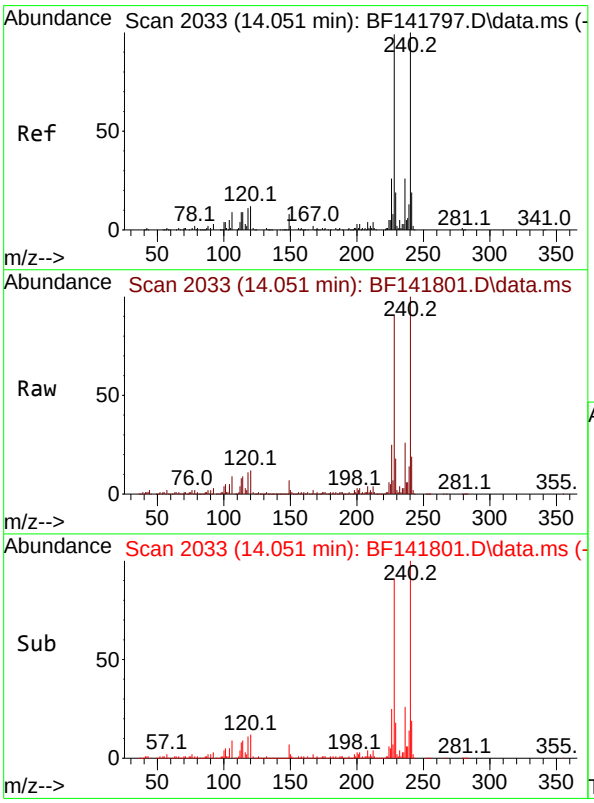
#75
Fluoranthene
Concen: 38.448 ng
RT: 12.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:202 Resp: 2552790

Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	32.8
203	18.0	0.0	38.0

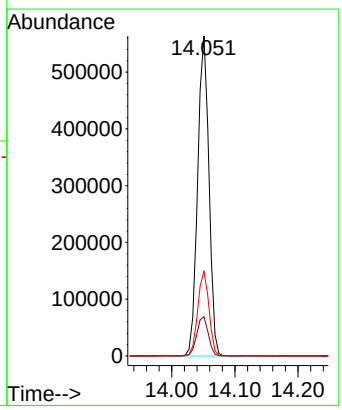


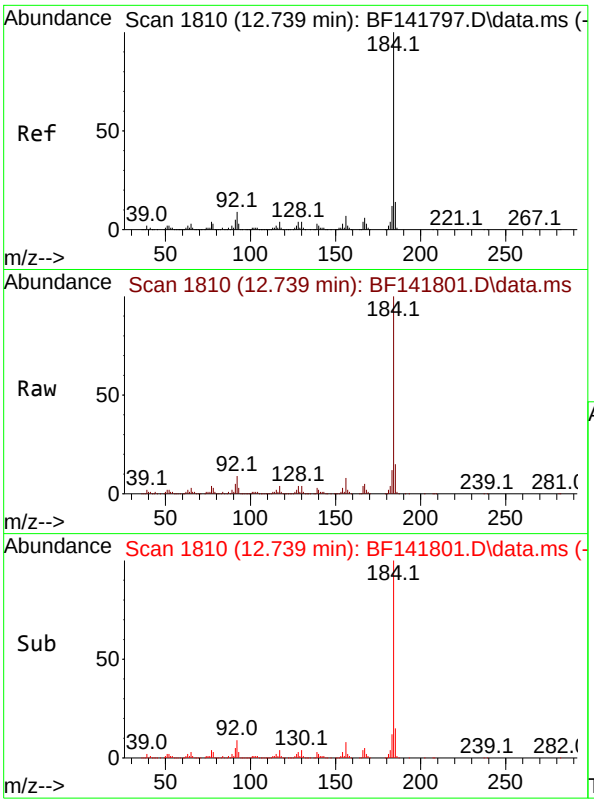


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:240 Resp: 696919

Ion	Ratio	Lower	Upper
240	100		
120	12.2	9.7	14.5
236	26.5	21.0	31.4



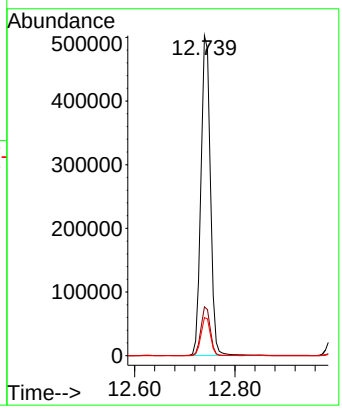


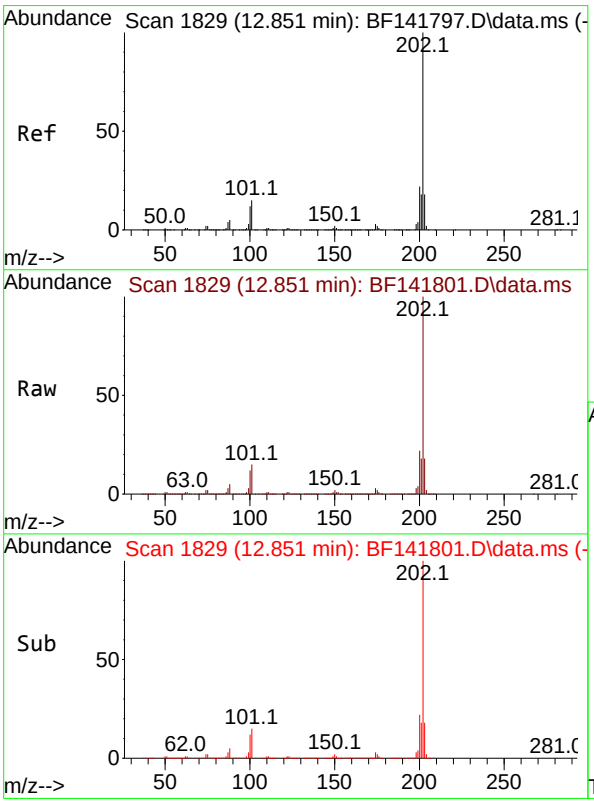
#77
Benzidine
Concen: 74.959 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:184 Resp: 657519

Ion	Ratio	Lower	Upper
184	100		
185	15.3	11.6	17.4
183	11.9	9.4	14.0

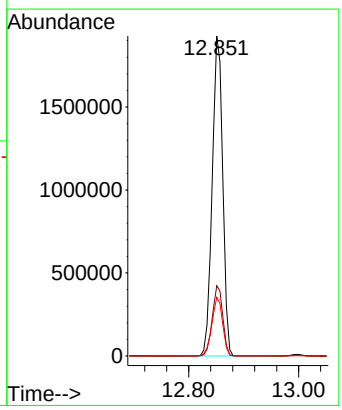


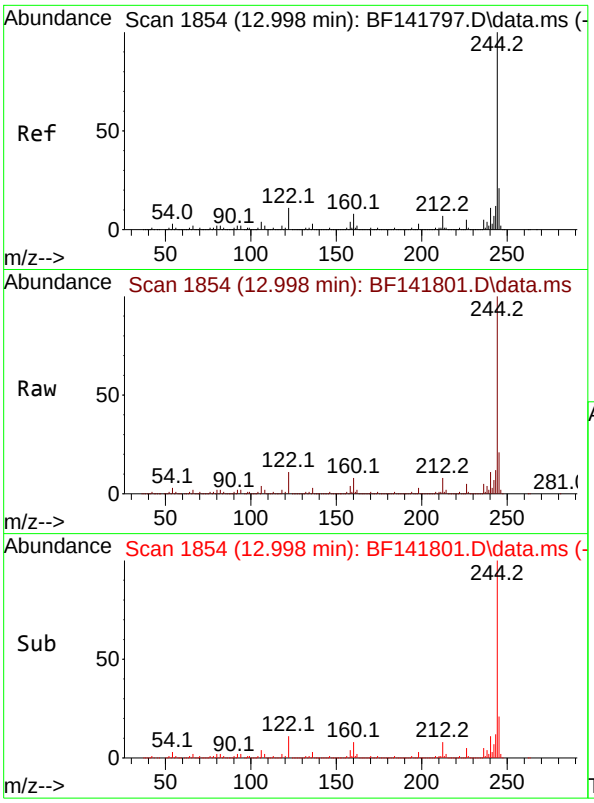


#78
Pyrene
Concen: 42.307 ng
RT: 12.851 min Scan# 1829
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:202 Resp: 2553211

Ion	Ratio	Lower	Upper
202	100		
200	22.0	17.4	26.0
203	18.3	14.6	22.0



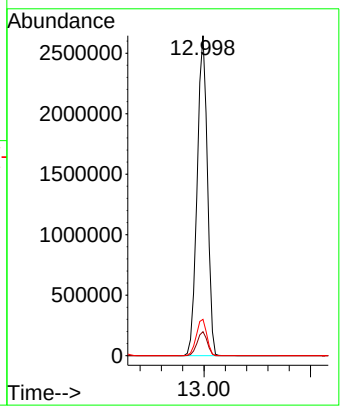


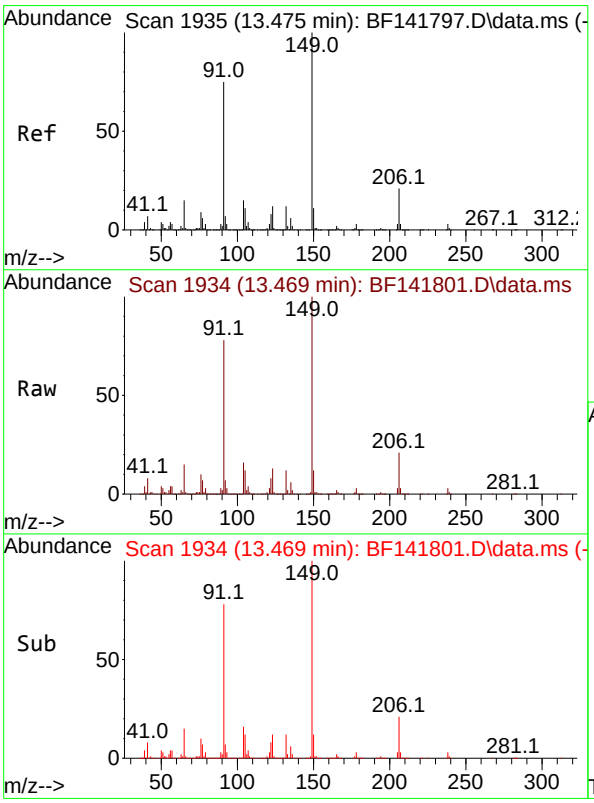
#79
Terphenyl-d14
Concen: 82.060 ng
RT: 12.998 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:244 Resp: 3534753

Ion	Ratio	Lower	Upper
244	100		
212	7.5	6.0	9.0
122	11.3	9.0	13.6

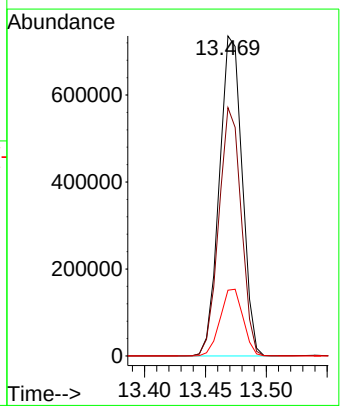


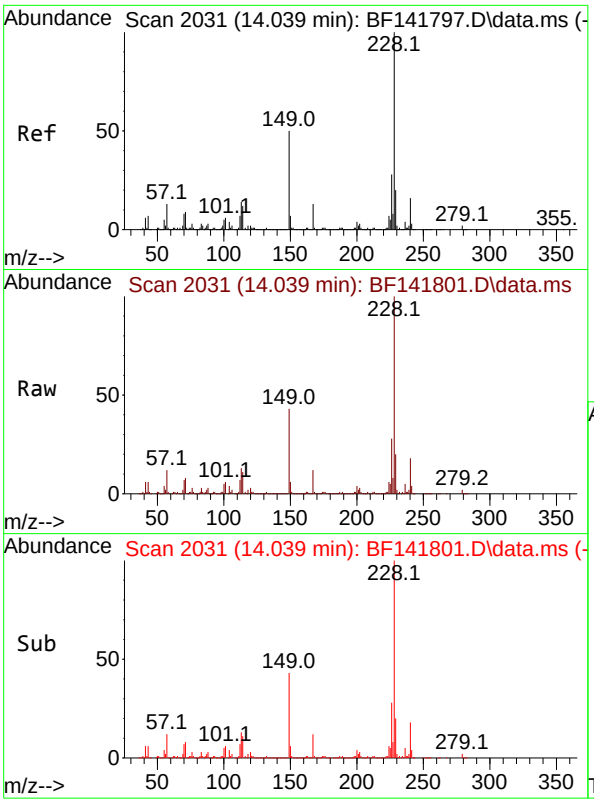


#80
Butylbenzylphthalate
Concen: 43.655 ng
RT: 13.469 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:149 Resp: 957186

Ion	Ratio	Lower	Upper
149	100		
91	77.6	60.1	90.1
206	20.5	16.8	25.2



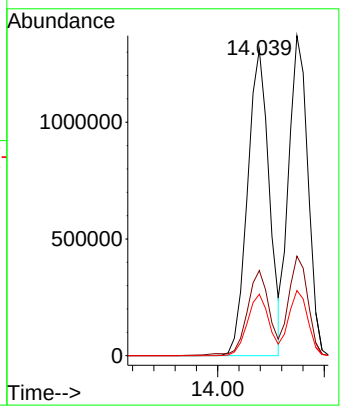


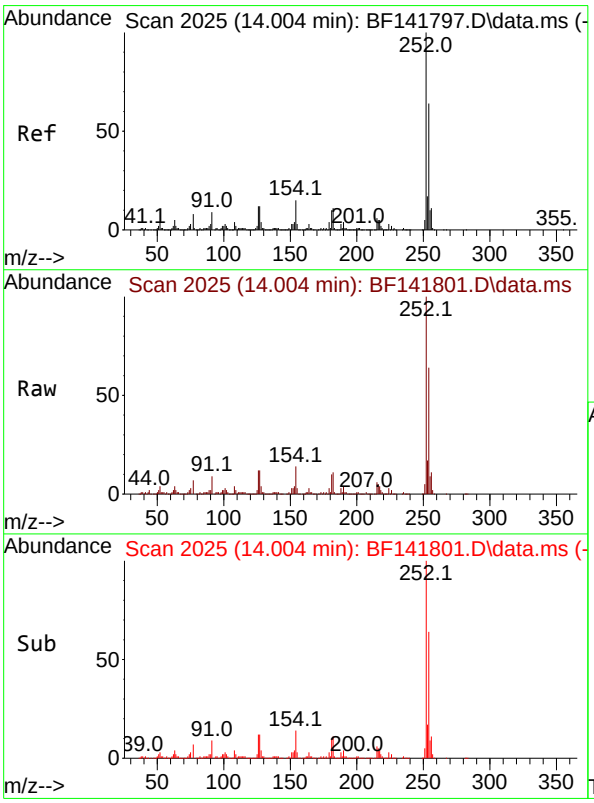
#81
Benzo(a)anthracene
Concen: 40.236 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:228 Resp: 1852195

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.1	33.1
229	20.1	16.1	24.1

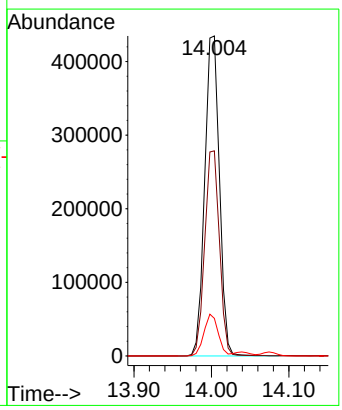


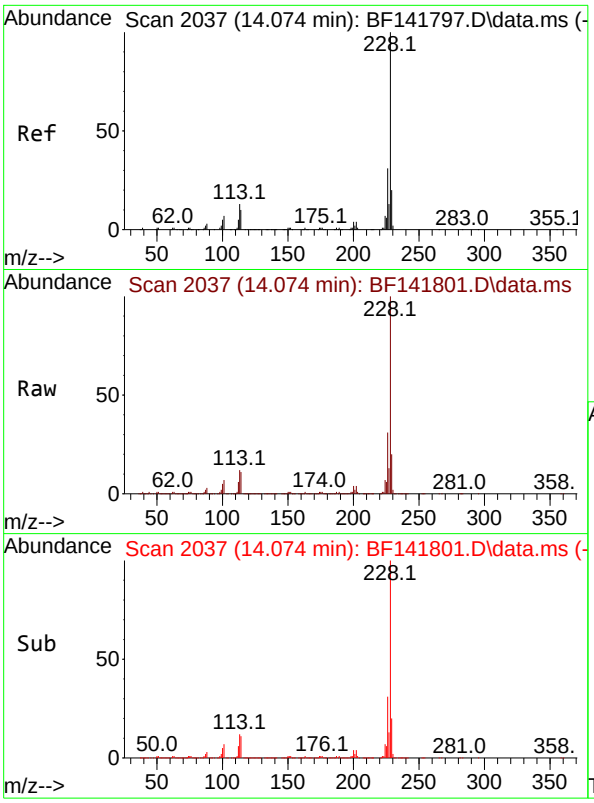


#82
3,3'-Dichlorobenzidine
Concen: 43.392 ng
RT: 14.004 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:252 Resp: 573075

Ion	Ratio	Lower	Upper
252	100		
254	64.1	51.4	77.0
126	11.8	9.8	14.6



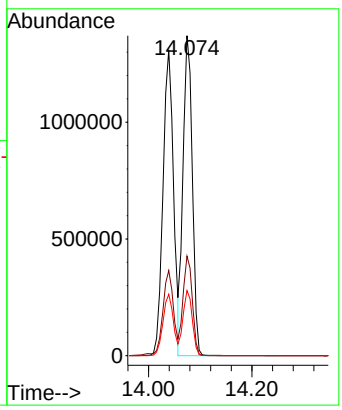


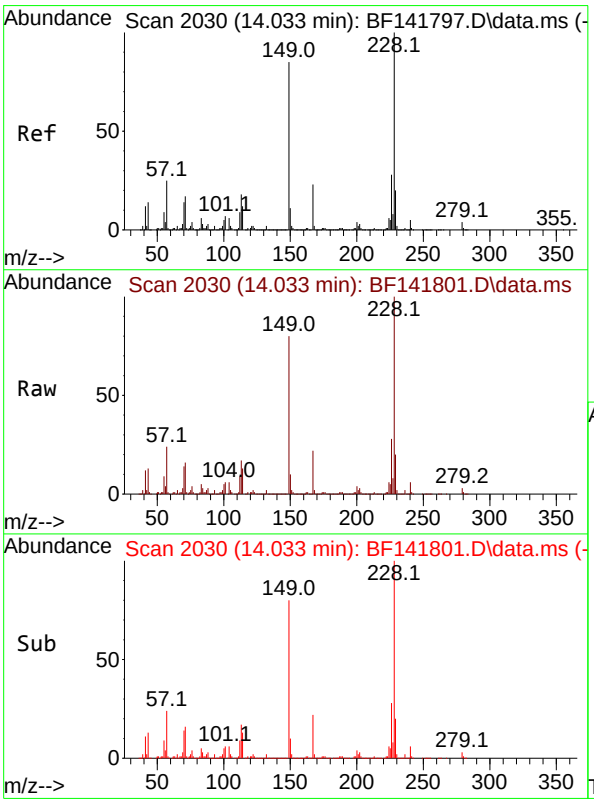
#83
Chrysene
Concen: 40.491 ng
RT: 14.074 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:228 Resp: 1718188

Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.6	37.0
229	20.4	16.1	24.1

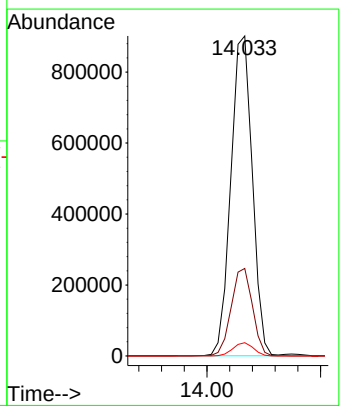


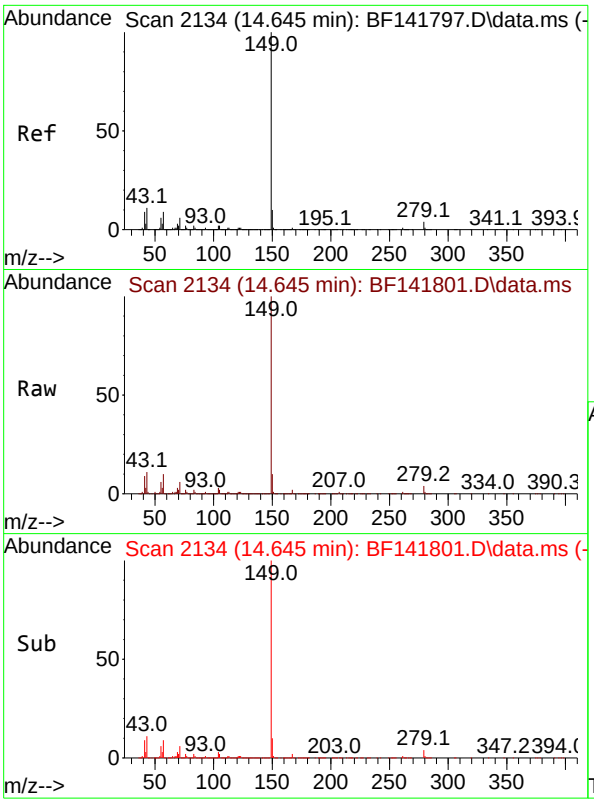


#84
Bis(2-ethylhexyl)phthalate
Concen: 43.350 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:149 Resp: 1183508

Ion	Ratio	Lower	Upper
149	100		
167	27.4	21.2	31.8
279	4.2	3.3	4.9



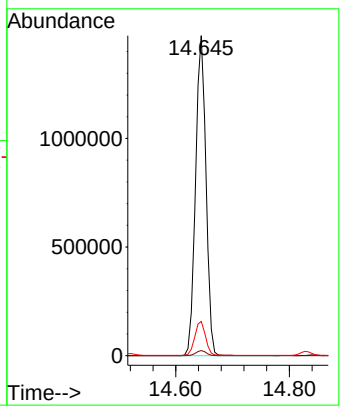


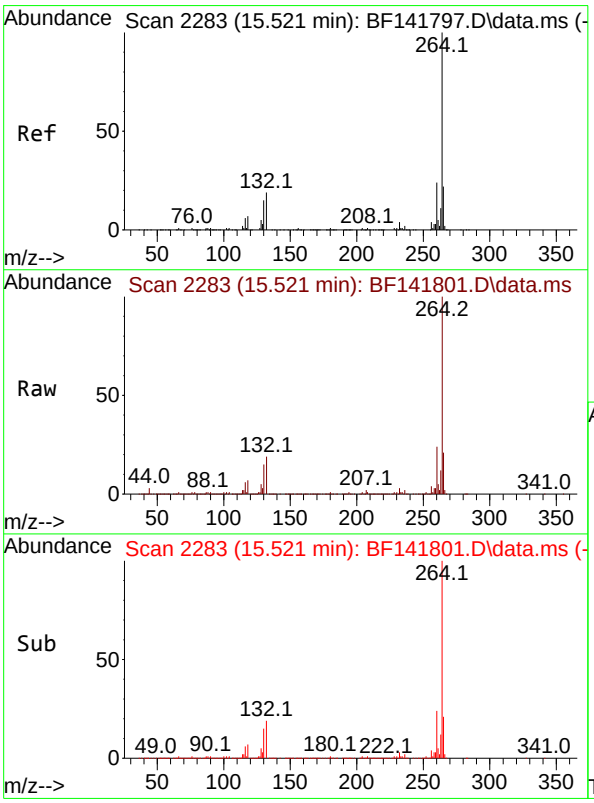
#85
Di-n-octyl phthalate
Concen: 46.033 ng
RT: 14.645 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:149 Resp: 1881499

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	11.0	8.6	12.8

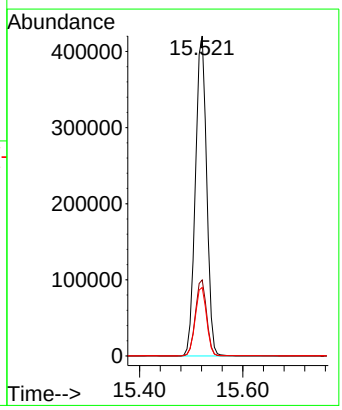


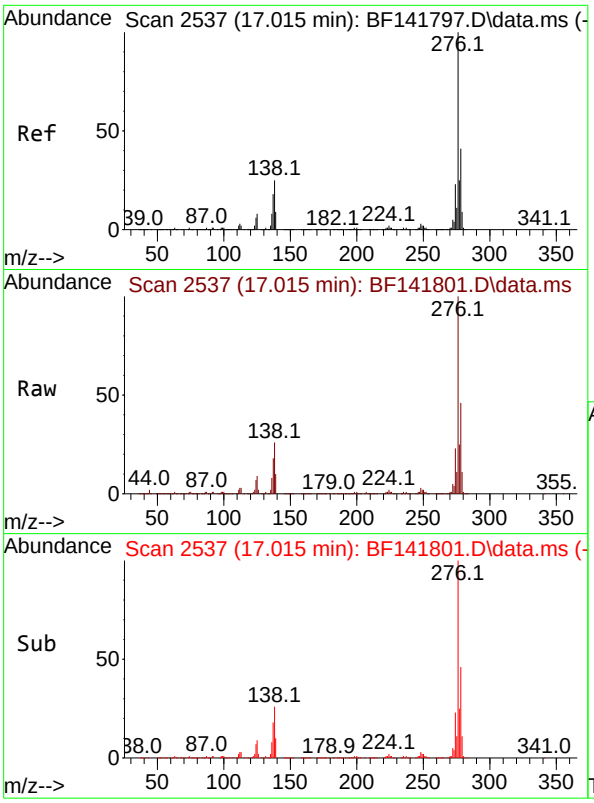


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:264 Resp: 634238

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.9	28.3
265	21.4	17.4	26.0



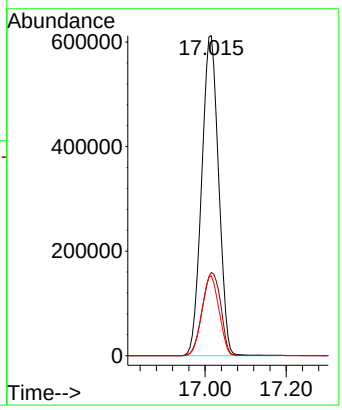


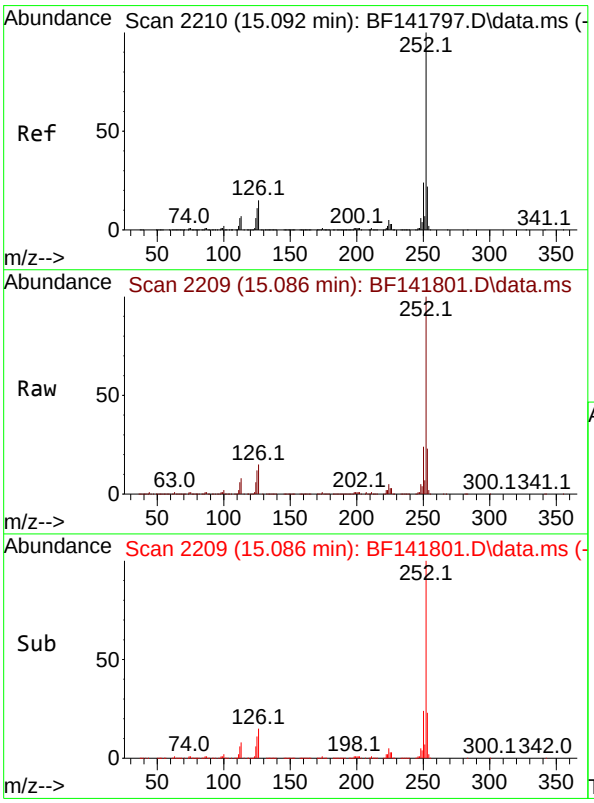
#87
Indeno(1,2,3-cd)pyrene
Concen: 43.754 ng
RT: 17.015 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:276 Resp: 1767077

Ion	Ratio	Lower	Upper
276	100		
138	28.3	22.5	33.7
277	25.3	20.3	30.5

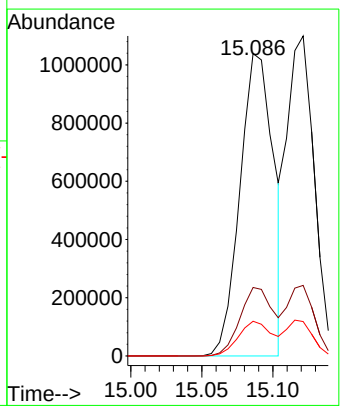


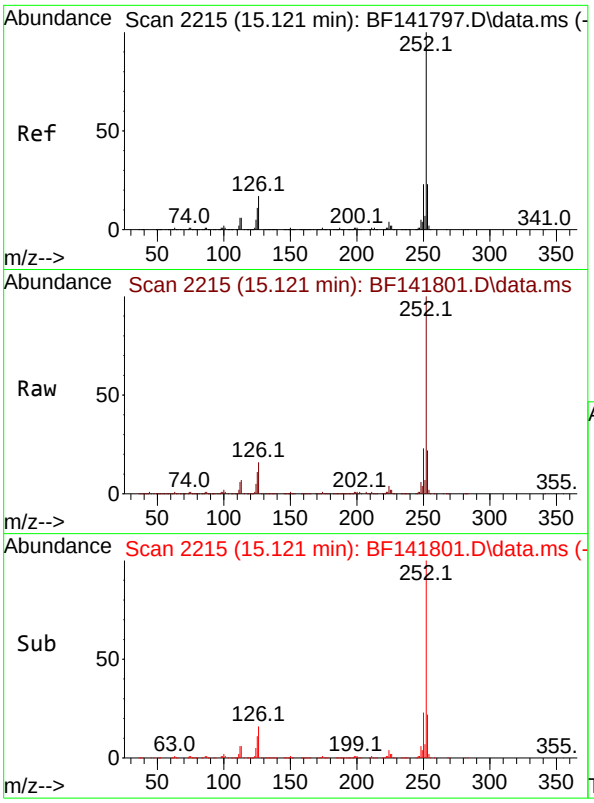


#88
Benzo(b)fluoranthene
Concen: 39.602 ng
RT: 15.086 min Scan# 2209
Delta R.T. -0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:252 Resp: 1710890

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.7	26.5
125	11.5	8.6	13.0



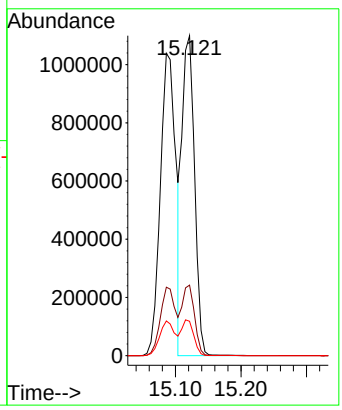


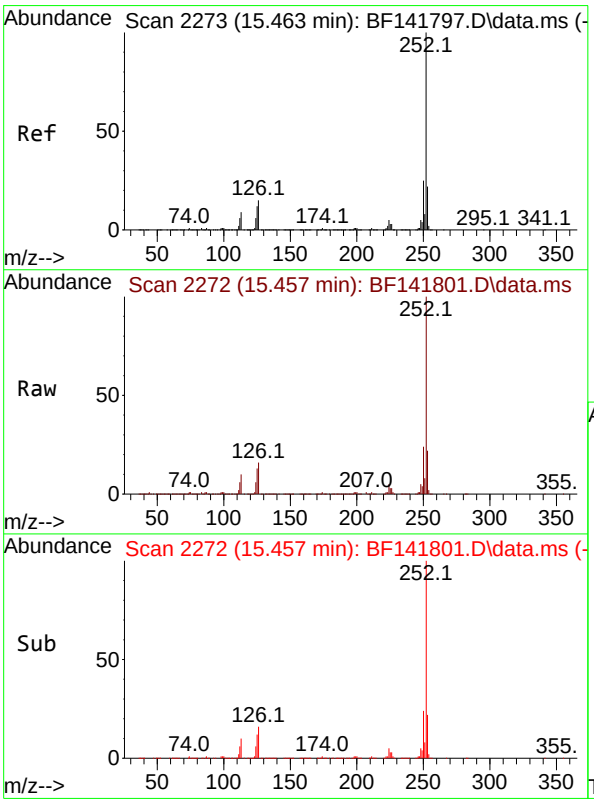
#89
Benzo(k)fluoranthene
Concen: 39.608 ng
RT: 15.121 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:252 Resp: 1454422

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.8
125	10.8	8.8	13.2

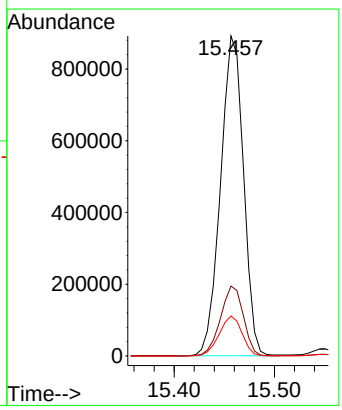


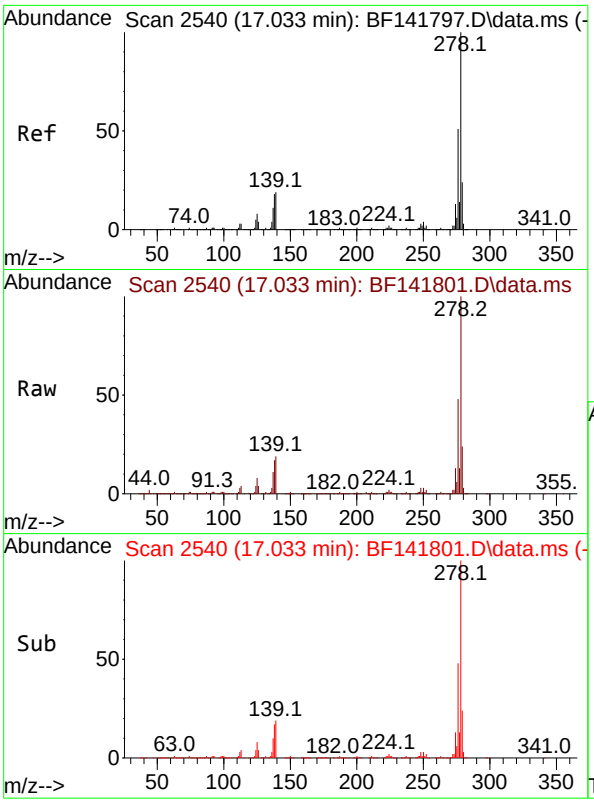


#90
Benzo(a)pyrene
Concen: 40.891 ng
RT: 15.457 min Scan# 2272
Delta R.T. -0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:252 Resp: 1416788

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	12.5	9.4	14.2



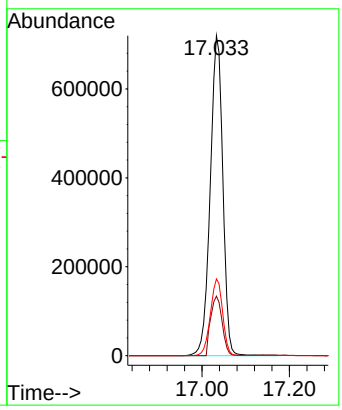


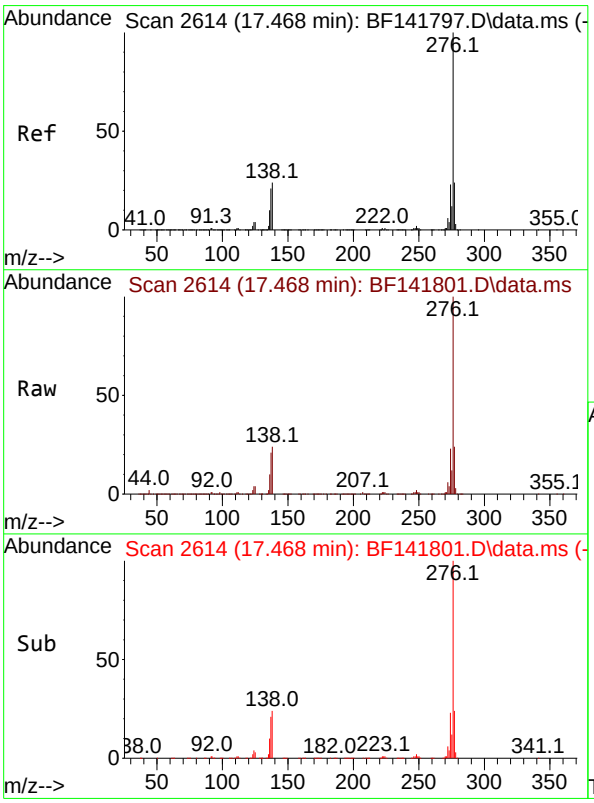
#91
Dibenzo(a,h)anthracene
Concen: 43.693 ng
RT: 17.033 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:278 Resp: 1440368

Ion	Ratio	Lower	Upper
278	100		
139	18.6	14.9	22.3
279	24.0	19.3	28.9

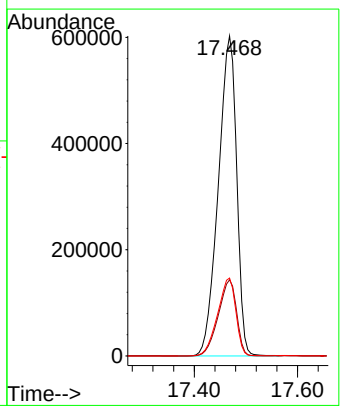




#92
Benzo(g,h,i)perylene
Concen: 43.969 ng
RT: 17.468 min Scan# 2614
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:276 Resp: 1484943

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.4	29.0
138	24.4	19.3	28.9



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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	117	0.00
2		1,4-Dioxane	0.568	0.589	-3.7	116	0.00
3		Pyridine	1.414	1.505	-6.4	119	0.00
4		n-Nitrosodimethylamine	0.680	0.741	-9.0	119	0.00
5	S	2-Fluorophenol	1.252	1.291	-3.1	117	0.00
6		Aniline	1.695	1.816	-7.1	117	0.00
7	S	Phenol-d6	1.630	1.692	-3.8	117	0.00
8		2-Chlorophenol	1.355	1.423	-5.0	118	0.00
9		Benzaldehyde	0.948	1.035	-9.2	123	0.00
10	C	Phenol	1.742	1.812	-4.0	116	0.00
11		bis(2-Chloroethyl)ether	1.328	1.386	-4.4	121	0.00
12		1,3-Dichlorobenzene	1.451	1.505	-3.7	117	0.00
13	C	1,4-Dichlorobenzene	1.462	1.501	-2.7	116	0.00
14		1,2-Dichlorobenzene	1.365	1.394	-2.1	116	0.00
15		Benzyl Alcohol	1.303	1.386	-6.4	118	0.00
16		2,2'-oxybis(1-Chloropropane	2.016	2.151	-6.7	121	0.00
17		2-Methylphenol	1.118	1.184	-5.9	119	0.00
18		Hexachloroethane	0.547	0.580	-6.0	117	0.00
19	P	n-Nitroso-di-n-propylamine	1.072	1.112	-3.7	119	0.00
20		3+4-Methylphenols	1.392	1.457	-4.7	118	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	118	0.00
22		Acetophenone	0.487	0.492	-1.0	117	0.00
23	S	Nitrobenzene-d5	0.313	0.370	-18.2	128	0.00
24		Nitrobenzene	0.335	0.383	-14.3	125	0.00
25		Isophorone	0.672	0.688	-2.4	119	0.00
26	C	2-Nitrophenol	0.127	0.169	-33.1#	139	0.00
27		2,4-Dimethylphenol	0.247	0.259	-4.9	120	0.00
28		bis(2-Chloroethoxy)methane	0.429	0.433	-0.9	118	0.00
29	C	2,4-Dichlorophenol	0.285	0.300	-5.3	119	0.00
30		1,2,4-Trichlorobenzene	0.312	0.318	-1.9	118	0.00
31		Naphthalene	1.028	1.024	0.4	116	0.00
32		Benzoic acid	0.179	0.232	-29.6#	144	0.00
33		4-Chloroaniline	0.377	0.378	-0.3	118	0.00
34	C	Hexachlorobutadiene	0.194	0.199	-2.6	119	0.00
35		Caprolactam	0.088	0.094	-6.8	121	0.00
36	C	4-Chloro-3-methylphenol	0.317	0.331	-4.4	120	0.00
37		2-Methylnaphthalene	0.674	0.669	0.7	117	0.00
38		1-Methylnaphthalene	0.647	0.641	0.9	116	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	121	0.00
40		1,2,4,5-Tetrachlorobenzene	0.578	0.579	-0.2	118	0.00
41	P	Hexachlorocyclopentadiene	0.241	0.235	2.5	110	0.00
42	S	2,4,6-Tribromophenol	0.188	0.198	-5.3	120	0.00
43	C	2,4,6-Trichlorophenol	0.373	0.393	-5.4	119	0.00
44		2,4,5-Trichlorophenol	0.369	0.386	-4.6	122	0.00
45	S	2-Fluorobiphenyl	1.247	1.184	5.1	115	0.00
46		1,1'-Biphenyl	1.522	1.479	2.8	117	0.00
47		2-Chloronaphthalene	1.124	1.104	1.8	117	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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	0.260	0.341	-31.2#	137	0.00
49		Acenaphthylene	1.685	1.681	0.2	118	0.00
50		Dimethylphthalate	1.339	1.348	-0.7	119	0.00
51		2,6-Dinitrotoluene	0.226	0.282	-24.8	132	0.00
52	C	Acenaphthene	1.137	1.151	-1.2	121	0.00
53		3-Nitroaniline	0.241	0.298	-23.7	130	0.00
54	P	2,4-Dinitrophenol	0.089	0.117	-31.5#	152#	0.00
55		Dibenzofuran	1.654	1.629	1.5	118	0.00
56	P	4-Nitrophenol	0.198	0.246	-24.2	130	0.00
57		2,4-Dinitrotoluene	0.269	0.356	-32.3#	137	0.00
58		Fluorene	1.239	1.194	3.6	117	0.00
59		2,3,4,6-Tetrachlorophenol	0.321	0.342	-6.5	122	0.00
60		Diethylphthalate	1.343	1.339	0.3	117	0.00
61		4-Chlorophenyl-phenylether	0.621	0.598	3.7	116	0.00
62		4-Nitroaniline	0.229	0.279	-21.8	126	0.00
63		Azobenzene	1.414	1.420	-0.4	119	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	117	0.00
65		4,6-Dinitro-2-methylphenol	0.081	0.106	-30.9#	143	0.00
66	c	n-Nitrosodiphenylamine	0.657	0.664	-1.1	117	0.00
67		4-Bromophenyl-phenylether	0.234	0.237	-1.3	117	0.00
68		Hexachlorobenzene	0.247	0.251	-1.6	117	0.00
69		Atrazine	0.181	0.174	3.9	114	0.00
70	C	Pentachlorophenol	0.156	0.172	-10.3	120	0.00
71		Phenanthrene	1.070	1.056	1.3	115	0.00
72		Anthracene	1.072	1.049	2.1	115	0.00
73		Carbazole	0.947	0.931	1.7	114	0.00
74		Di-n-butylphthalate	1.200	1.186	1.2	115	0.00
75	C	Fluoranthene	1.096	1.054	3.8	114	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	111	0.00
77		Benzidine	0.252	0.472	-87.3#	201#	0.00
78		Pyrene	1.732	1.832	-5.8	113	0.00
79	S	Terphenyl-d14	1.236	1.268	-2.6	111	0.00
80		Butylbenzylphthalate	0.629	0.687	-9.2	114	0.00
81		Benzo(a)anthracene	1.321	1.329	-0.6	112	0.00
82		3,3'-Dichlorobenzidine	0.379	0.411	-8.4	116	0.00
83		Chrysene	1.218	1.233	-1.2	108	0.00
84		Bis(2-ethylhexyl)phthalate	0.783	0.849	-8.4	113	0.00
85	c	Di-n-octyl phthalate	1.173	1.350	-15.1	114	0.00
86	I	Perylene-d12	1.000	1.000	0.0	112	0.00
87		Indeno(1,2,3-cd)pyrene	1.274	1.393	-9.3	116	0.00
88		Benzo(b)fluoranthene	1.362	1.349	1.0	115	0.00
89		Benzo(k)fluoranthene	1.158	1.147	0.9	106	0.00
90	C	Benzo(a)pyrene	1.093	1.117	-2.2	112	0.00
91		Dibenzo(a,h)anthracene	1.040	1.136	-9.2	115	0.00
92		Benzo(g,h,i)perylene	1.065	1.171	-10.0	116	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
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Instrument :
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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	117	0.00
2		1,4-Dioxane	40.000	41.486	-3.7	116	0.00
3		Pyridine	40.000	42.572	-6.4	119	0.00
4		n-Nitrosodimethylamine	40.000	43.575	-8.9	119	0.00
5	S	2-Fluorophenol	80.000	82.443	-3.1	117	0.00
6		Aniline	40.000	42.857	-7.1	117	0.00
7	S	Phenol-d6	80.000	83.039	-3.8	117	0.00
8		2-Chlorophenol	40.000	42.011	-5.0	118	0.00
9		Benzaldehyde	40.000	43.684	-9.2	123	0.00
10	C	Phenol	40.000	41.614	-4.0	116	0.00
11		bis(2-Chloroethyl)ether	40.000	41.763	-4.4	121	0.00
12		1,3-Dichlorobenzene	40.000	41.498	-3.7	117	0.00
13	C	1,4-Dichlorobenzene	40.000	41.066	-2.7	116	0.00
14		1,2-Dichlorobenzene	40.000	40.857	-2.1	116	0.00
15		Benzyl Alcohol	40.000	42.564	-6.4	118	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	42.679	-6.7	121	0.00
17		2-Methylphenol	40.000	42.365	-5.9	119	0.00
18		Hexachloroethane	40.000	42.366	-5.9	117	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	41.525	-3.8	119	0.00
20		3+4-Methylphenols	40.000	41.840	-4.6	118	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	118	0.00
22		Acetophenone	40.000	40.417	-1.0	117	0.00
23	S	Nitrobenzene-d5	80.000	94.707	-18.4	128	0.00
24		Nitrobenzene	40.000	45.751	-14.4	125	0.00
25		Isophorone	40.000	40.944	-2.4	119	0.00
26	C	2-Nitrophenol	40.000	45.447	-13.6	139	0.00
27		2,4-Dimethylphenol	40.000	41.931	-4.8	120	0.00
28		bis(2-Chloroethoxy)methane	40.000	40.357	-0.9	118	0.00
29	C	2,4-Dichlorophenol	40.000	42.157	-5.4	119	0.00
30		1,2,4-Trichlorobenzene	40.000	40.757	-1.9	118	0.00
31		Naphthalene	40.000	39.854	0.4	116	0.00
32		Benzoic acid	40.000	45.545	-13.9	144	0.00
33		4-Chloroaniline	40.000	40.096	-0.2	118	0.00
34	C	Hexachlorobutadiene	40.000	41.042	-2.6	119	0.00
35		Caprolactam	40.000	42.737	-6.8	121	0.00
36	C	4-Chloro-3-methylphenol	40.000	41.844	-4.6	120	0.00
37		2-Methylnaphthalene	40.000	39.710	0.7	117	0.00
38		1-Methylnaphthalene	40.000	39.635	0.9	116	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	121	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.086	-0.2	118	0.00
41	P	Hexachlorocyclopentadiene	40.000	38.975	2.6	110	0.00
42	S	2,4,6-Tribromophenol	80.000	84.321	-5.4	120	0.00
43	C	2,4,6-Trichlorophenol	40.000	42.156	-5.4	119	0.00
44		2,4,5-Trichlorophenol	40.000	41.806	-4.5	122	0.00
45	S	2-Fluorobiphenyl	80.000	75.957	5.1	115	0.00
46		1,1'-Biphenyl	40.000	38.864	2.8	117	0.00
47		2-Chloronaphthalene	40.000	39.288	1.8	117	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
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Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
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ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
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Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	44.684	-11.7	137	0.00
49		Acenaphthylene	40.000	39.907	0.2	118	0.00
50		Dimethylphthalate	40.000	40.250	-0.6	119	0.00
51		2,6-Dinitrotoluene	40.000	44.292	-10.7	132	0.00
52	C	Acenaphthene	40.000	40.488	-1.2	121	0.00
53		3-Nitroaniline	40.000	43.938	-9.8	130	0.00
54	P	2,4-Dinitrophenol	40.000	47.494	-18.7	152	0.00
55		Dibenzofuran	40.000	39.391	1.5	118	0.00
56	P	4-Nitrophenol	40.000	49.725	-24.3	130	0.00
57		2,4-Dinitrotoluene	40.000	45.704	-14.3	137	0.00
58		Fluorene	40.000	38.547	3.6	117	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	42.607	-6.5	122	0.00
60		Diethylphthalate	40.000	39.896	0.3	117	0.00
61		4-Chlorophenyl-phenylether	40.000	38.546	3.6	116	0.00
62		4-Nitroaniline	40.000	48.866	-22.2	126	0.00
63		Azobenzene	40.000	40.188	-0.5	119	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	117	0.00
65		4,6-Dinitro-2-methylphenol	40.000	45.441	-13.6	143	0.00
66	c	n-Nitrosodiphenylamine	40.000	40.431	-1.1	117	0.00
67		4-Bromophenyl-phenylether	40.000	40.614	-1.5	117	0.00
68		Hexachlorobenzene	40.000	40.697	-1.7	117	0.00
69		Atrazine	40.000	38.463	3.8	114	0.00
70	C	Pentachlorophenol	40.000	44.032	-10.1	120	0.00
71		Phenanthrene	40.000	39.475	1.3	115	0.00
72		Anthracene	40.000	39.126	2.2	115	0.00
73		Carbazole	40.000	39.317	1.7	114	0.00
74		Di-n-butylphthalate	40.000	39.540	1.2	115	0.00
75	C	Fluoranthene	40.000	38.448	3.9	114	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	111	0.00
77		Benzidine	40.000	74.959	-87.4#	201	0.00
78		Pyrene	40.000	42.307	-5.8	113	0.00
79	S	Terphenyl-d14	80.000	82.060	-2.6	111	0.00
80		Butylbenzylphthalate	40.000	43.655	-9.1	114	0.00
81		Benzo(a)anthracene	40.000	40.236	-0.6	112	0.00
82		3,3'-Dichlorobenzidine	40.000	43.392	-8.5	116	0.00
83		Chrysene	40.000	40.491	-1.2	108	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	43.350	-8.4	113	0.00
85	c	Di-n-octyl phthalate	40.000	46.033	-15.1	114	0.00
86	I	Perylene-d12	20.000	20.000	0.0	112	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	43.754	-9.4	116	0.00
88		Benzo(b)fluoranthene	40.000	39.602	1.0	115	0.00
89		Benzo(k)fluoranthene	40.000	39.608	1.0	106	0.00
90	C	Benzo(a)pyrene	40.000	40.891	-2.2	112	0.00
91		Dibenzo(a,h)anthracene	40.000	43.693	-9.2	115	0.00
92		Benzo(g,h,i)perylene	40.000	43.969	-9.9	116	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
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ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

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

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Raw Data: **BF141835.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: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: BNA_F Calibration Date/Time: 03/05/2025 10:09

Lab File ID: BF141835.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.252	1.263		0.9	
Benzaldehyde	0.948	0.834		-12.0	
Phenol-d6	1.630	1.613		-1.0	
Phenol	1.742	1.734		-0.5	20.0
bis(2-Chloroethyl)ether	1.328	1.232		-7.2	
2-Chlorophenol	1.355	1.354		-0.1	
2-Methylphenol	1.118	1.094		-2.1	
2,2-oxybis(1-Chloropropane)	2.016	1.771		-12.2	
Acetophenone	0.487	0.480		-1.4	
3+4-Methylphenols	1.392	1.384		-0.6	
n-Nitroso-di-n-propylamine	1.072	0.955	0.050	-10.9	
Nitrobenzene-d5	0.313	0.371		18.5	
Hexachloroethane	0.547	0.522		-4.6	
Nitrobenzene	0.335	0.375		11.9	
Isophorone	0.672	0.633		-5.8	
2-Nitrophenol	0.127	0.179		40.9	20.0
2,4-Dimethylphenol	0.247	0.248		0.4	
bis(2-Chloroethoxy)methane	0.429	0.395		-7.9	
2,4-Dichlorophenol	0.285	0.291		2.1	20.0
Naphthalene	1.028	1.017		-1.1	
4-Chloroaniline	0.377	0.378		0.3	
Hexachlorobutadiene	0.194	0.187		-3.6	20.0
Caprolactam	0.088	0.098		11.4	
4-Chloro-3-methylphenol	0.317	0.324		2.2	20.0
2-Methylnaphthalene	0.674	0.657		-2.5	
Hexachlorocyclopentadiene	0.241	0.235	0.050	-2.5	
2,4,6-Trichlorophenol	0.373	0.395		5.9	20.0
2-Fluorobiphenyl	1.247	1.230		-1.4	
2,4,5-Trichlorophenol	0.369	0.412		11.7	
1,1-Biphenyl	1.522	1.505		-1.1	
2-Chloronaphthalene	1.124	1.144		1.8	
2-Nitroaniline	0.260	0.374		43.8	
Dimethylphthalate	1.339	1.326		-1.0	
Acenaphthylene	1.685	1.726		2.4	
2,6-Dinitrotoluene	0.226	0.297		31.4	
3-Nitroaniline	0.241	0.328		36.1	
Acenaphthene	1.137	1.188		4.5	20.0
2,4-Dinitrophenol	0.089	0.149	0.050	67.4	
4-Nitrophenol	0.198	0.283	0.050	42.9	

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: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: BNA_F Calibration Date/Time: 03/05/2025 10:09

Lab File ID: BF141835.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.654	1.670		1.0	
2,4-Dinitrotoluene	0.269	0.392		45.7	
Diethylphthalate	1.343	1.320		-1.7	
4-Chlorophenyl-phenylether	0.621	0.606		-2.4	
Fluorene	1.239	1.253		1.1	
4-Nitroaniline	0.229	0.330		44.1	
4,6-Dinitro-2-methylphenol	0.081	0.122		50.6	
n-Nitrosodiphenylamine	0.657	0.638		-2.9	20.0
2,4,6-Tribromophenol	0.188	0.210		11.7	
4-Bromophenyl-phenylether	0.234	0.223		-4.7	
Hexachlorobenzene	0.247	0.245		-0.8	
Atrazine	0.181	0.156		-13.8	
Pentachlorophenol	0.156	0.176		12.8	20.0
Phenanthrene	1.070	1.082		1.1	
Anthracene	1.072	1.088		1.5	
Carbazole	0.947	0.990		4.5	
Di-n-butylphthalate	1.200	1.131		-5.8	
Fluoranthene	1.096	1.157		5.6	20.0
Pyrene	1.732	1.722		-0.6	
Terphenyl-d14	1.236	1.190		-3.7	
Butylbenzylphthalate	0.629	0.646		2.7	
3,3-Dichlorobenzidine	0.379	0.382		0.8	
Benzo(a)anthracene	1.321	1.308		-1.0	
Chrysene	1.218	1.190		-2.3	
Bis(2-ethylhexyl)phthalate	0.783	0.807		3.1	
Di-n-octyl phthalate	1.173	1.132		-3.5	20.0
Benzo(b)fluoranthene	1.362	1.368		0.4	
Benzo(k)fluoranthene	1.158	1.057		-8.7	
Benzo(a)pyrene	1.093	1.074		-1.7	20.0
Indeno(1,2,3-cd)pyrene	1.274	1.310		2.8	
Dibenzo(a,h)anthracene	1.040	1.067		2.6	
Benzo(g,h,i)perylene	1.065	1.105		3.8	
1,2,4,5-Tetrachlorobenzene	0.578	0.577		-0.2	
1,4-Dioxane	0.568	0.571		0.5	20.0
2,3,4,6-Tetrachlorophenol	0.321	0.351		9.3	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	246608	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	945299	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	507589	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	873644	20.000	ng	0.00
76) Chrysene-d12	14.045	240	595765	20.000	ng	0.00
86) Perylene-d12	15.510	264	513355	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1246062	80.693	ng	0.00
7) Phenol-d6	6.510	99	1590960	79.155	ng	0.00
23) Nitrobenzene-d5	7.445	82	1402310	94.823	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	425699	89.332	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	2496418	78.861	ng	0.00
79) Terphenyl-d14	12.992	244	2834884	76.987	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.681	88	281849	40.225	ng	99
3) Pyridine	3.452	79	705001	40.439	ng	98
4) n-Nitrosodimethylamine	3.393	42	341742	40.740	ng	97
6) Aniline	6.551	93	828160	39.633	ng	99
8) 2-Chlorophenol	6.669	128	667898	39.983	ng	99
9) Benzaldehyde	6.440	77	411185	35.170	ng	98
10) Phenol	6.522	94	855332	39.824	ng	98
11) bis(2-Chloroethyl)ether	6.622	93	607625	37.114	ng	99
12) 1,3-Dichlorobenzene	6.828	146	705872	39.458	ng	99
13) 1,4-Dichlorobenzene	6.904	146	715372	39.687	ng	99
14) 1,2-Dichlorobenzene	7.057	146	664849	39.499	ng	100
15) Benzyl Alcohol	7.022	79	627467	39.062	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.163	45	873469	35.131	ng	99
17) 2-Methylphenol	7.128	107	539412	39.120	ng	99
18) Hexachloroethane	7.398	117	257495	38.167	ng	99
19) n-Nitroso-di-n-propyla...	7.298	70	470848	35.637	ng	100
20) 3+4-Methylphenols	7.281	107	682535	39.753	ng	95
22) Acetophenone	7.292	105	907232	39.406	ng	98
24) Nitrobenzene	7.469	77	708702	44.751	ng	99
25) Isophorone	7.704	82	1195819	37.638	ng	99
26) 2-Nitrophenol	7.781	139	337701	47.760	ng	99
27) 2,4-Dimethylphenol	7.810	122	469729	40.220	ng	100
28) bis(2-Chloroethoxy)met...	7.916	93	747705	36.892	ng	99
29) 2,4-Dichlorophenol	8.016	162	550338	40.846	ng	100
30) 1,2,4-Trichlorobenzene	8.110	180	590525	39.998	ng	99
31) Naphthalene	8.192	128	1922662	39.574	ng	99
32) Benzoic acid	7.922	122	468479	48.051	ng	99
33) 4-Chloroaniline	8.234	127	714189	40.091	ng	100
34) Hexachlorobutadiene	8.304	225	354160	38.603	ng	99
35) Caprolactam	8.604	113	185176	44.676	ng	93
36) 4-Chloro-3-methylphenol	8.710	107	612816	40.944	ng	97
37) 2-Methylnaphthalene	8.881	142	1241689	38.964	ng	100
38) 1-Methylnaphthalene	8.981	142	1218817	39.860	ng	100
40) 1,2,4,5-Tetrachloroben...	9.045	216	585654	39.950	ng	99
41) Hexachlorocyclopentadiene	9.034	237	238457	38.977	ng	99
43) 2,4,6-Trichlorophenol	9.151	196	400730	42.317	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

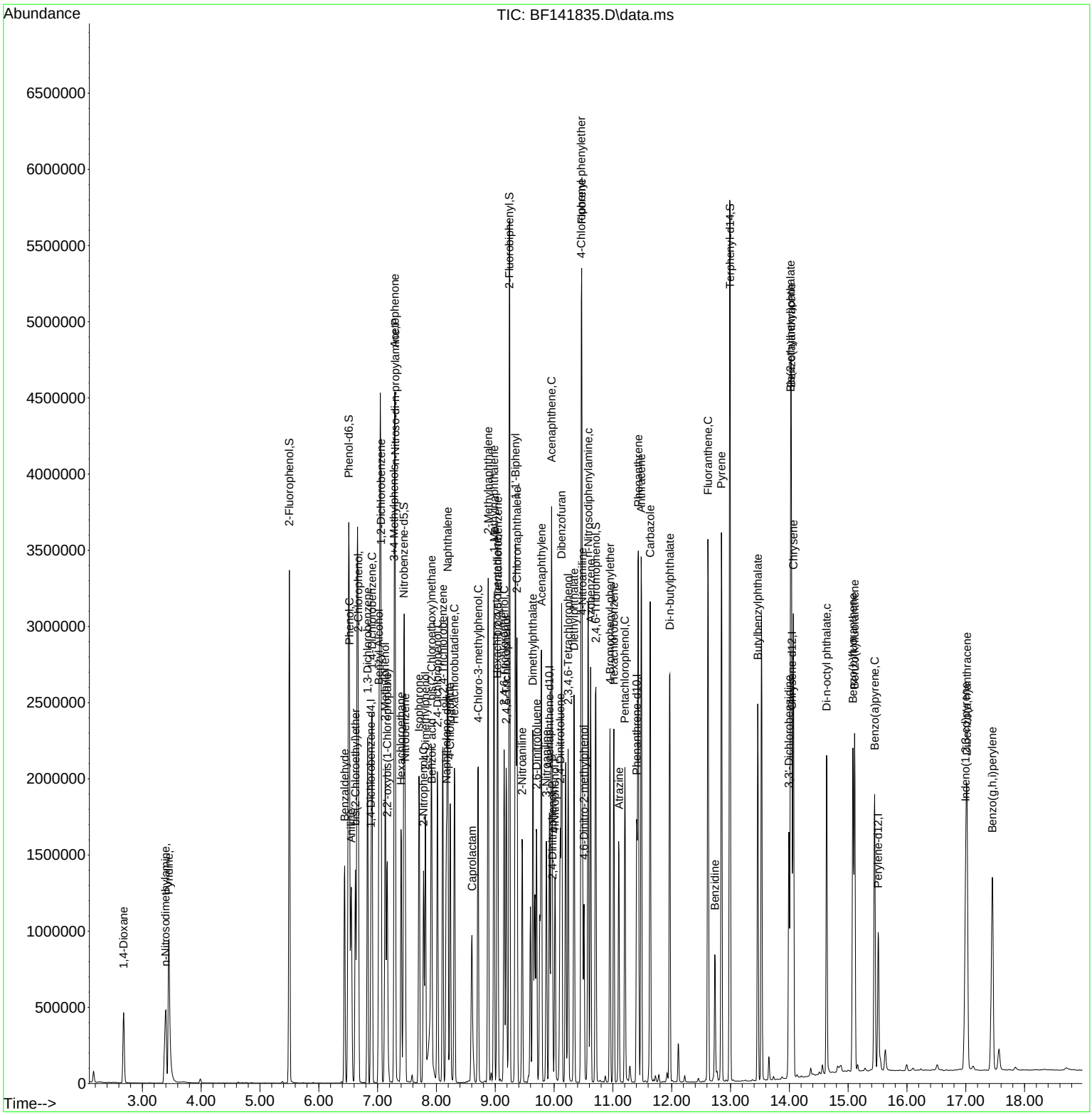
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	418618	44.643	ng		100
46) 1,1'-Biphenyl	9.345	154	1527684	39.541	ng		100
47) 2-Chloronaphthalene	9.369	162	1161554	40.733	ng		99
48) 2-Nitroaniline	9.457	65	379633	48.579	ng		99
49) Acenaphthylene	9.786	152	1752309	40.985	ng		99
50) Dimethylphthalate	9.639	163	1345931	39.595	ng		100
51) 2,6-Dinitrotoluene	9.704	165	301676	46.487	ng		91
52) Acenaphthene	9.957	154	1206437	41.819	ng		99
53) 3-Nitroaniline	9.869	138	332516	48.006	ng	#	96
54) 2,4-Dinitrophenol	9.975	184	151609	57.060	ng	#	1
55) Dibenzofuran	10.128	168	1695006	40.368	ng		99
56) 4-Nitrophenol	10.016	139	287143	57.194	ng		98
57) 2,4-Dinitrotoluene	10.104	165	398234	49.981	ng		93
58) Fluorene	10.469	166	1272485	40.458	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	356479	43.711	ng		99
60) Diethylphthalate	10.339	149	1340314	39.332	ng		99
61) 4-Chlorophenyl-phenyle...	10.463	204	615259	39.043	ng		99
62) 4-Nitroaniline	10.480	138	334806	57.675	ng		95
63) Azobenzene	10.622	77	1373599	38.283	ng		99
65) 4,6-Dinitro-2-methylph...	10.510	198	213658	51.268	ng		94
66) n-Nitrosodiphenylamine	10.581	169	1114485	38.849	ng		100
67) 4-Bromophenyl-phenylether	10.951	248	389763	38.195	ng		97
68) Hexachlorobenzene	11.016	284	427268	39.651	ng		99
69) Atrazine	11.104	200	272033	34.483	ng		98
70) Pentachlorophenol	11.204	266	308128	45.085	ng		99
71) Phenanthrene	11.433	178	1890507	40.455	ng		99
72) Anthracene	11.480	178	1901419	40.598	ng		99
73) Carbazole	11.633	167	1730017	41.829	ng		100
74) Di-n-butylphthalate	11.969	149	1976148	37.694	ng		99
75) Fluoranthene	12.616	202	2021622	42.219	ng		99
77) Benzidine	12.733	184	455419	60.734	ng		100
78) Pyrene	12.845	202	2051898	39.773	ng		100
80) Butylbenzylphthalate	13.463	149	769482	41.053	ng		99
81) Benzo(a)anthracene	14.033	228	1559065	39.619	ng		100
82) 3,3'-Dichlorobenzidine	13.992	252	454914	40.293	ng		99
83) Chrysene	14.069	228	1417476	39.076	ng		99
84) Bis(2-ethylhexyl)phtha...	14.021	149	961512	41.198	ng		99
85) Di-n-octyl phthalate	14.633	149	1348427	38.592	ng		99
87) Indeno(1,2,3-cd)pyrene	16.998	276	1345046	41.147	ng		98
88) Benzo(b)fluoranthene	15.080	252	1404956	40.178	ng		100
89) Benzo(k)fluoranthene	15.110	252	1085559	36.524	ng		100
90) Benzo(a)pyrene	15.451	252	1102749	39.322	ng		99
91) Dibenzo(a,h)anthracene	17.021	278	1095326	41.050	ng		98
92) Benzo(g,h,i)perylene	17.451	276	1134958	41.520	ng		99

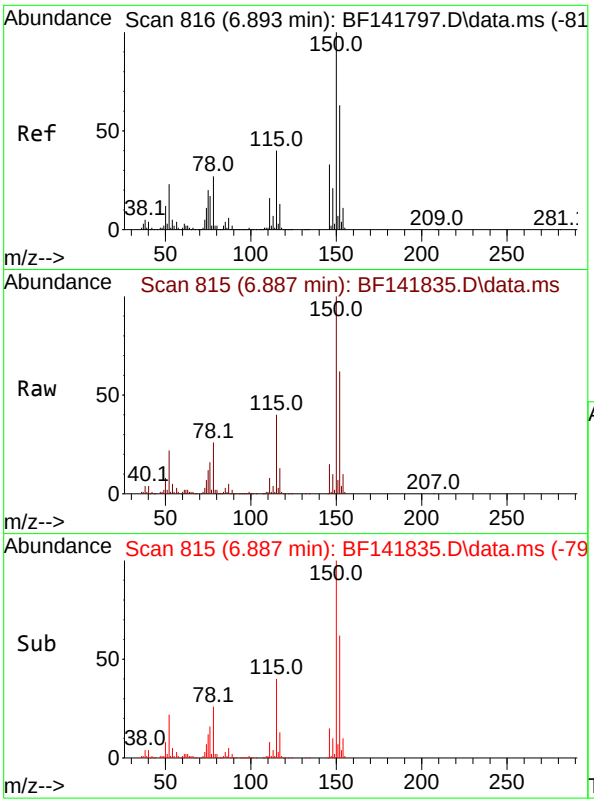
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



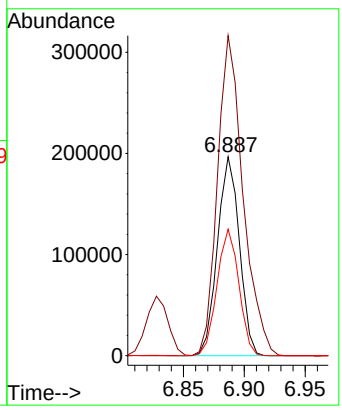


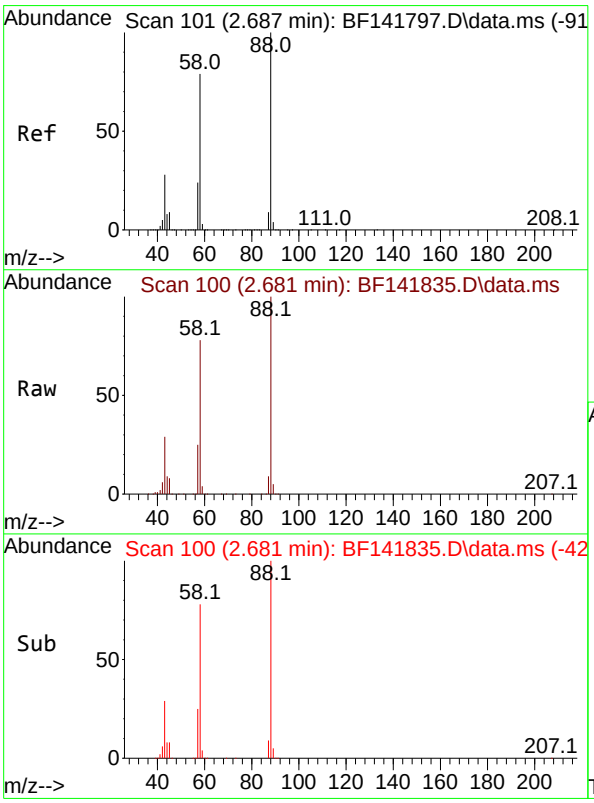
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 246608

Ion	Ratio	Lower	Upper
152	100		
150	160.8	127.5	191.3
115	63.6	51.4	77.2

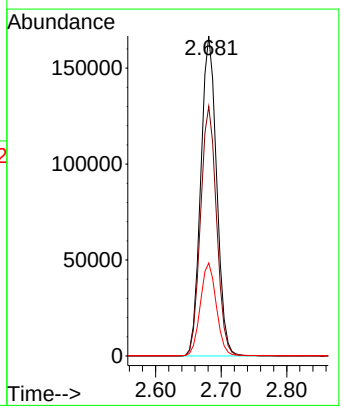


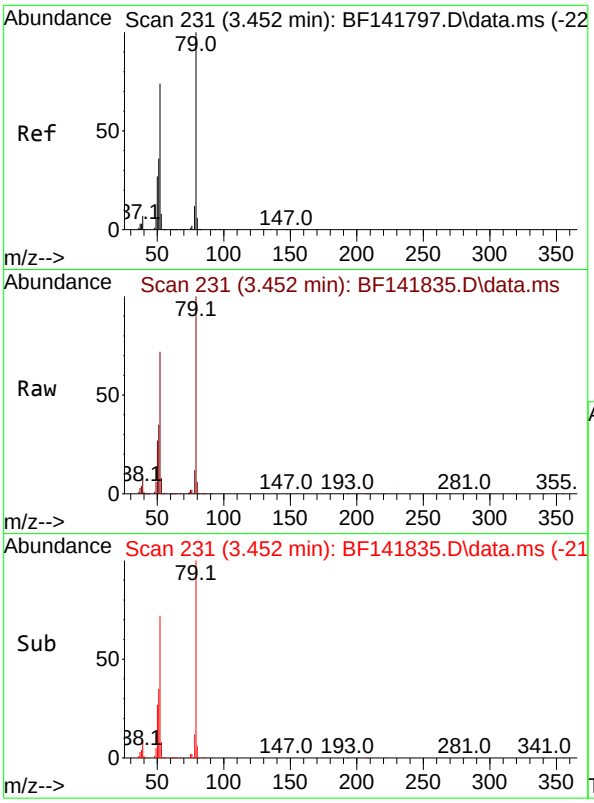


#2
1,4-Dioxane
Concen: 40.225 ng
RT: 2.681 min Scan# 100
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 88 Resp: 281849

Ion	Ratio	Lower	Upper
88	100		
58	78.5	63.9	95.9
43	28.9	23.0	34.6



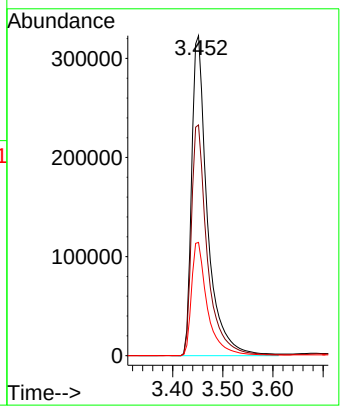


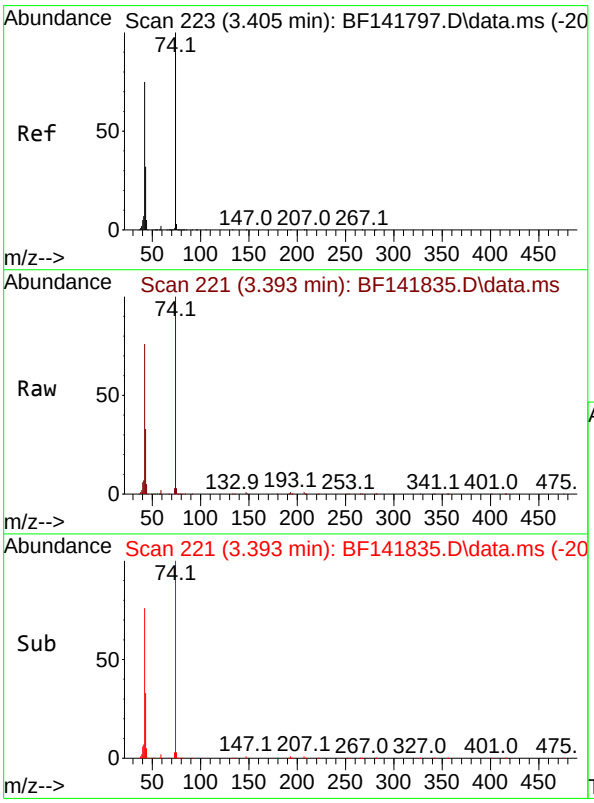
#3
Pyridine
Concen: 40.439 ng
RT: 3.452 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 705001

Ion	Ratio	Lower	Upper
79	100		
52	72.1	59.0	88.4
51	35.4	29.0	43.4

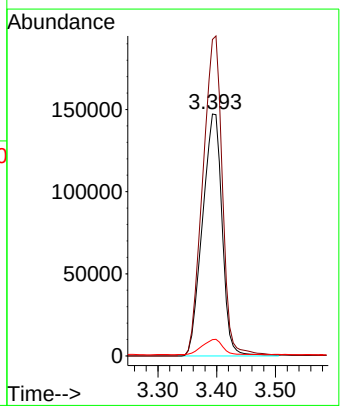


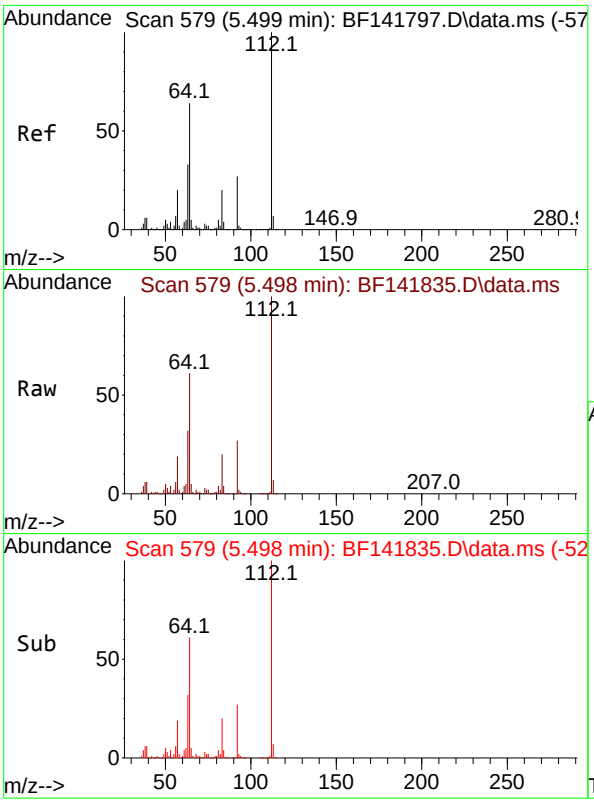


#4
n-Nitrosodimethylamine
Concen: 40.740 ng
RT: 3.393 min Scan# 221
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 42 Resp: 341742

Ion	Ratio	Lower	Upper
42	100		
74	130.9	107.1	160.7
44	6.7	6.6	9.8



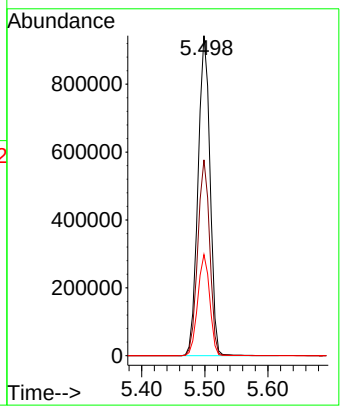


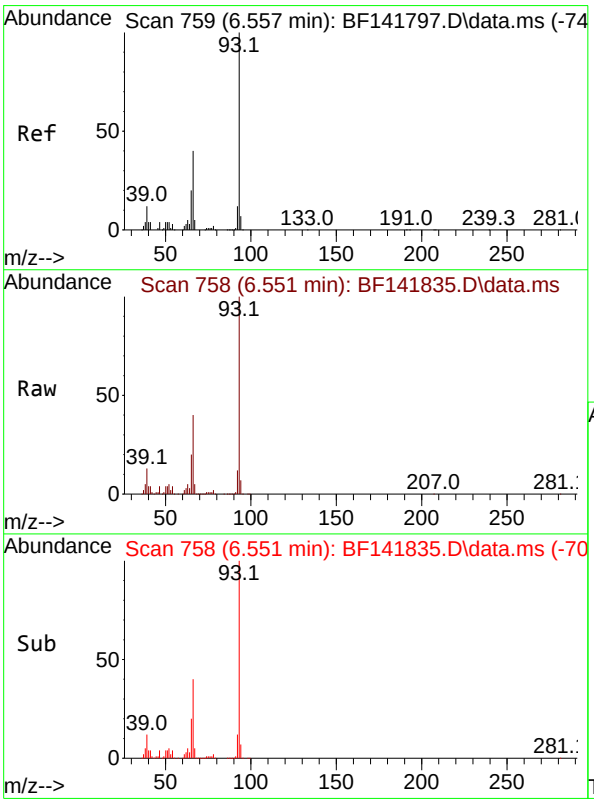
#5
2-Fluorophenol
Concen: 80.693 ng
RT: 5.498 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 1246062

Ion	Ratio	Lower	Upper
112	100		
64	61.2	51.3	76.9
63	31.6	26.2	39.4

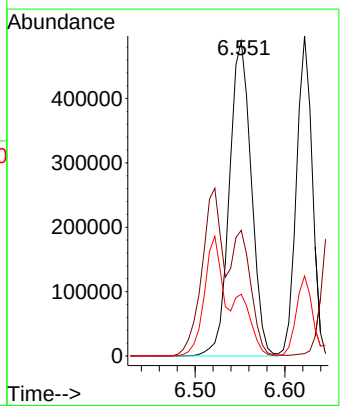


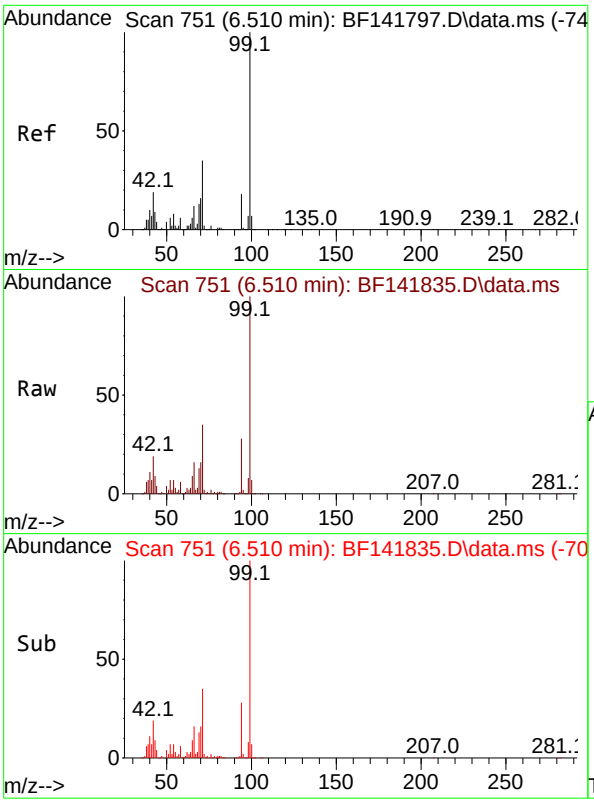


#6
Aniline
Concen: 39.633 ng
RT: 6.551 min Scan# 758
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 93 Resp: 828160

Ion	Ratio	Lower	Upper
93	100		
66	39.9	32.3	48.5
65	19.6	15.9	23.9



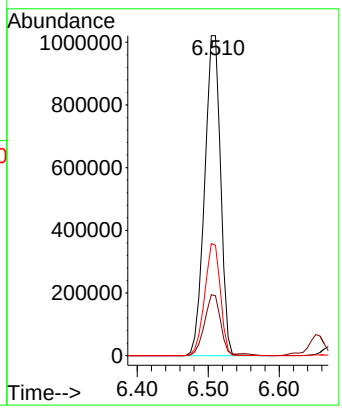


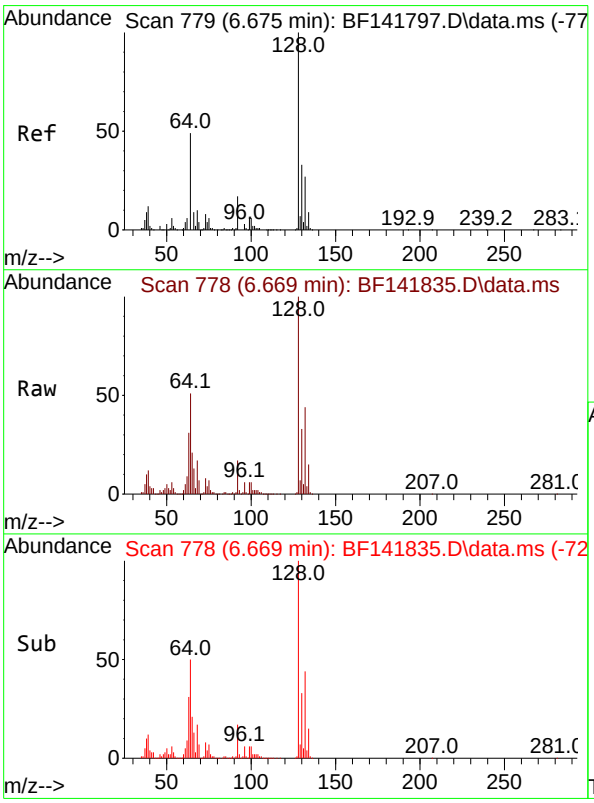
#7
Phenol-d6
Concen: 79.155 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 1590960

Ion	Ratio	Lower	Upper
99	100		
42	18.7	15.2	22.8
71	34.6	28.2	42.2

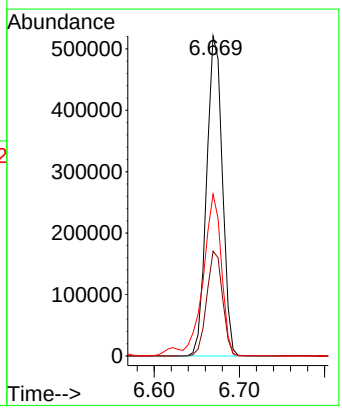


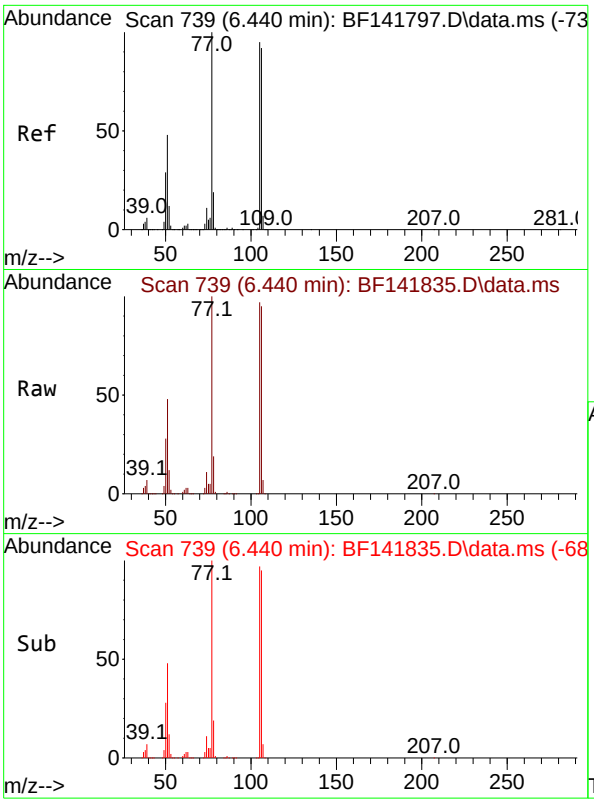


#8
2-Chlorophenol
Concen: 39.983 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:128 Resp: 667898

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.6	52.6
64	50.5	31.1	71.1



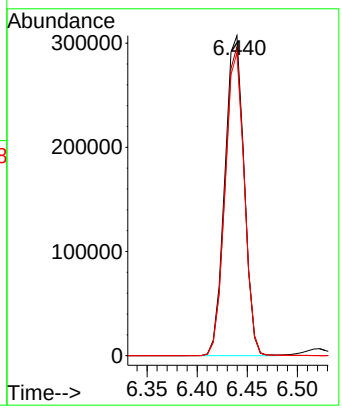


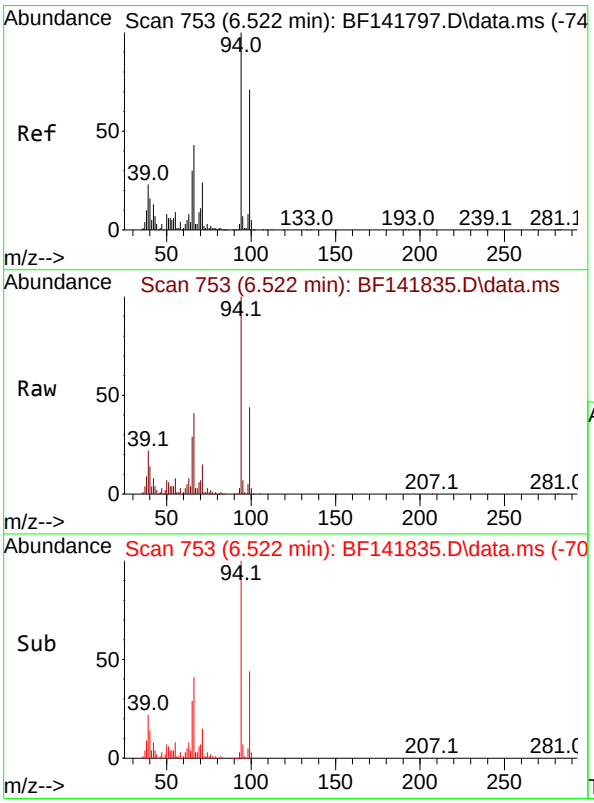
#9
Benzaldehyde
Concen: 35.170 ng
RT: 6.440 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 411185

Ion	Ratio	Lower	Upper
77	100		
105	96.5	75.3	115.3
106	94.6	72.3	112.3

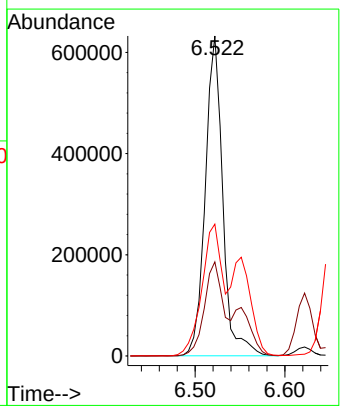


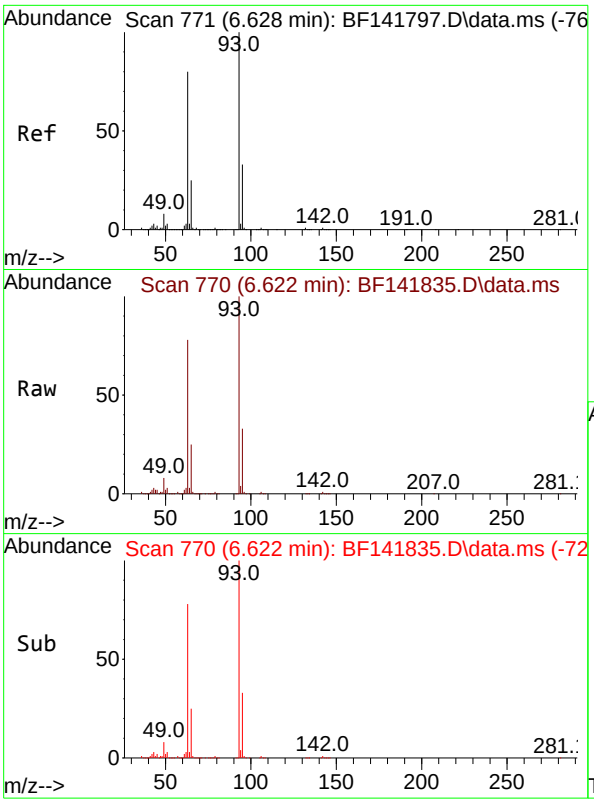


#10
Phenol
Concen: 39.824 ng
RT: 6.522 min Scan# 753
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 94 Resp: 855332

Ion	Ratio	Lower	Upper
94	100		
65	29.4	10.2	50.2
66	41.2	23.2	63.2



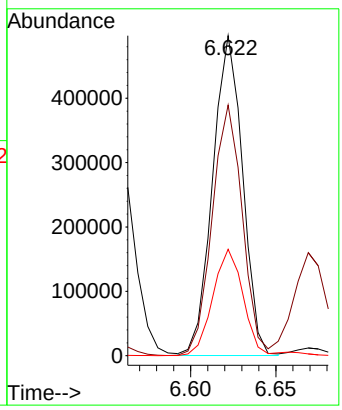


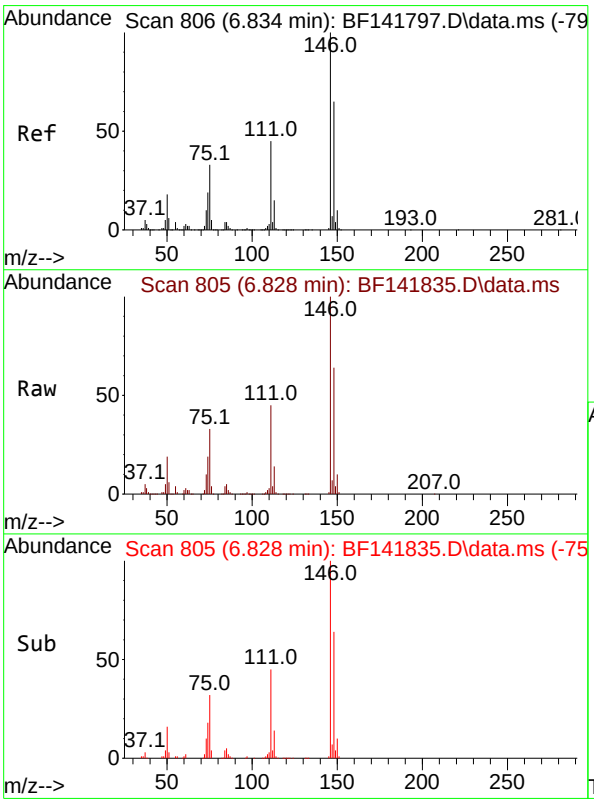
#11
bis(2-Chloroethyl)ether
Concen: 37.114 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 607625

Ion	Ratio	Lower	Upper
93	100		
63	78.3	59.3	99.3
95	33.2	13.2	53.2

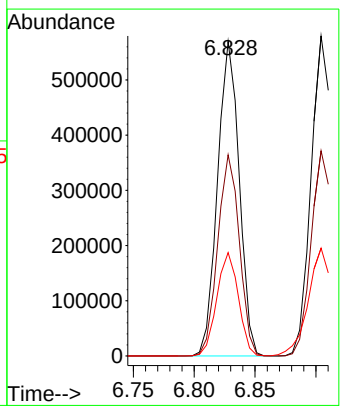


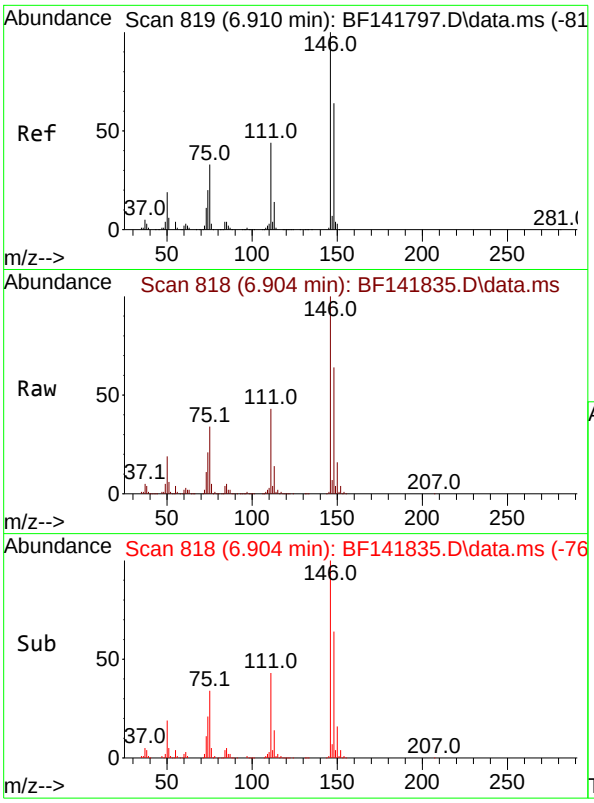


#12
1,3-Dichlorobenzene
Concen: 39.458 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:146 Resp: 705872

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.8	77.6
75	32.9	26.2	39.4



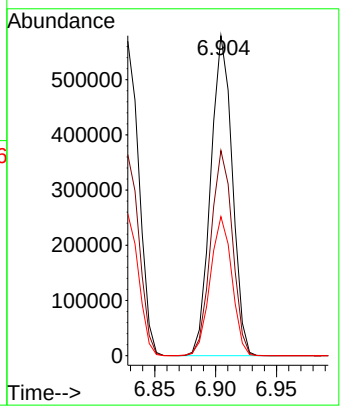


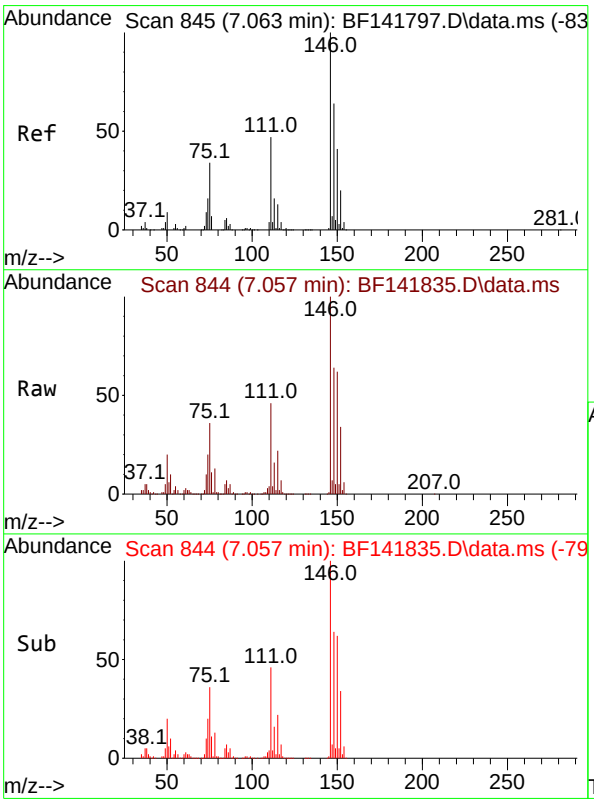
#13
1,4-Dichlorobenzene
Concen: 39.687 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 715372

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.4	77.2
111	43.5	35.5	53.3

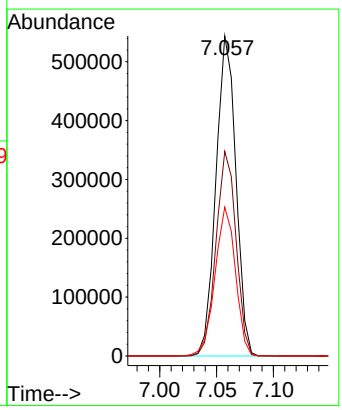


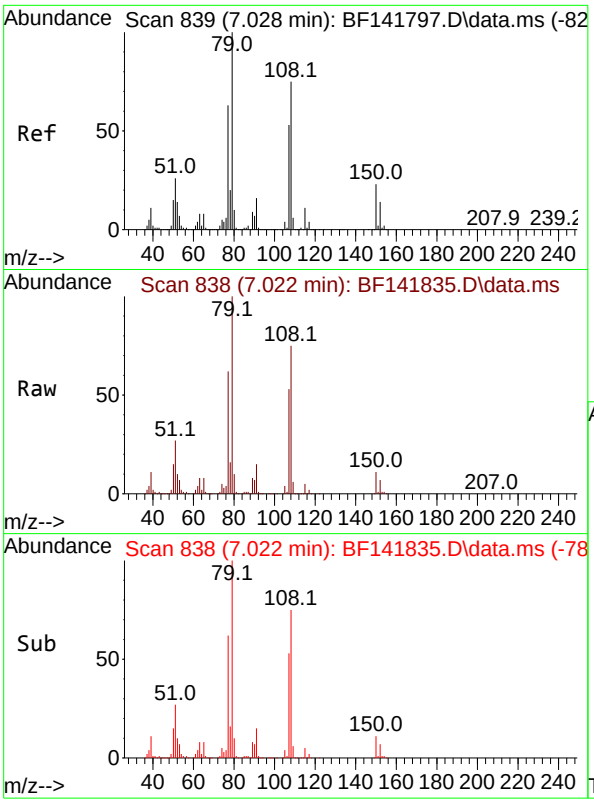


#14
1,2-Dichlorobenzene
Concen: 39.499 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:146 Resp: 664849

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.2	76.8
111	46.5	37.8	56.6



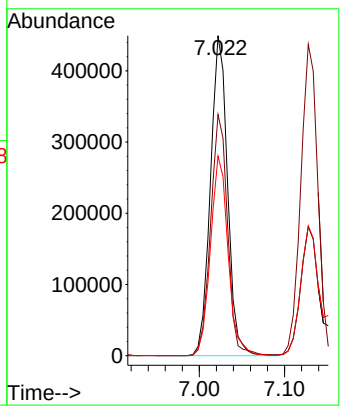


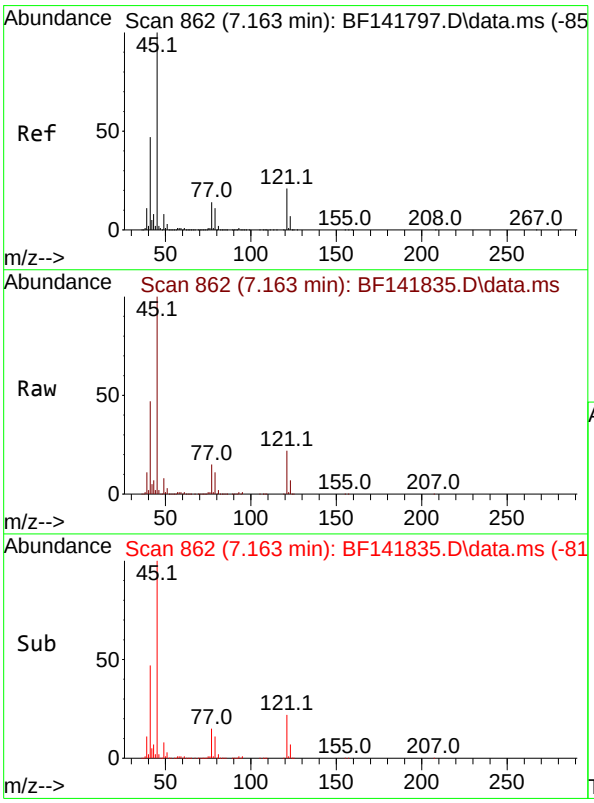
#15
Benzyl Alcohol
Concen: 39.062 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 627467

Ion	Ratio	Lower	Upper
79	100		
108	75.4	60.2	90.2
77	62.4	50.2	75.2

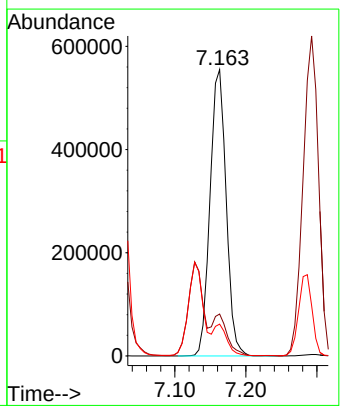


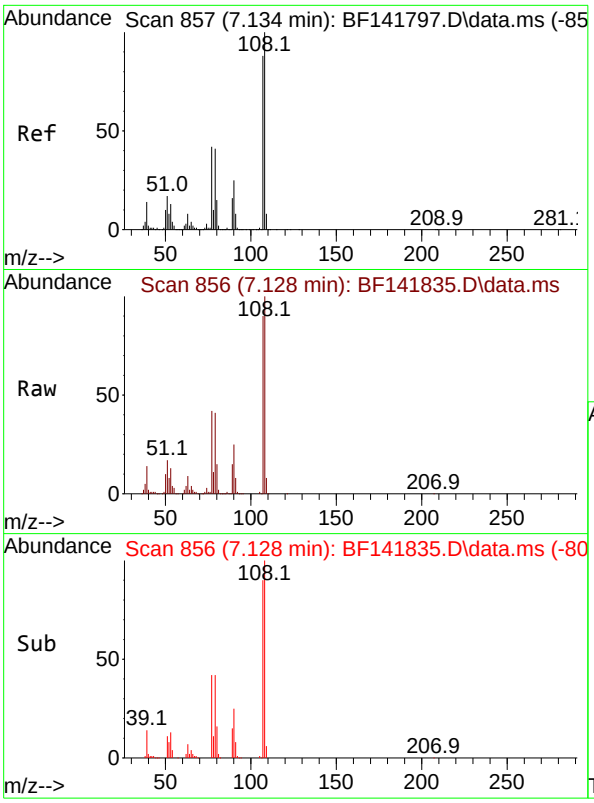


#16
2,2'-oxybis(1-Chloropropane)
Concen: 35.131 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 45 Resp: 873469

Ion	Ratio	Lower	Upper
45	100		
77	14.6	0.0	34.4
79	11.1	0.0	30.9



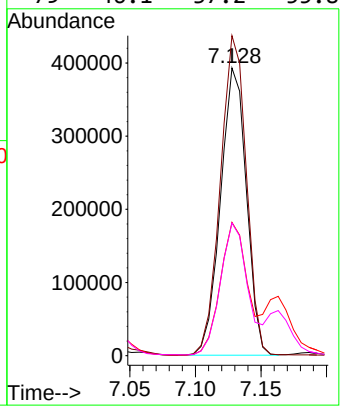


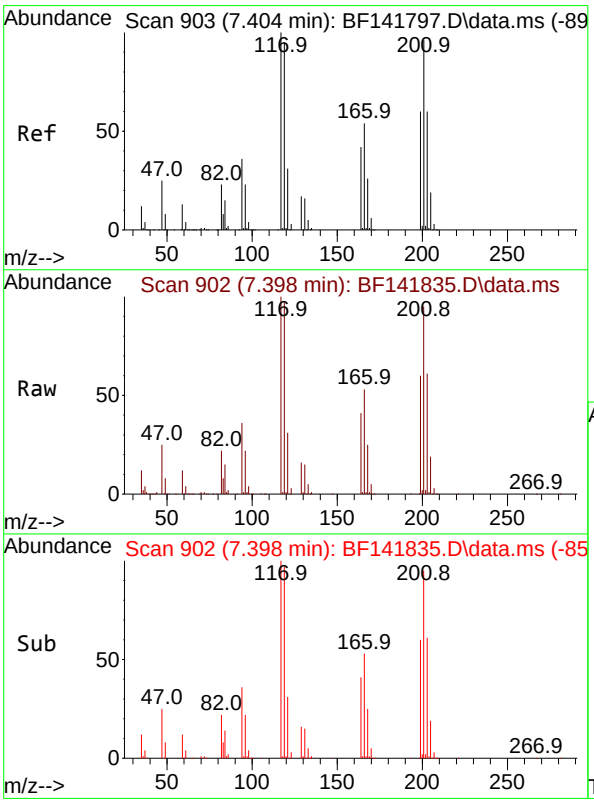
#17
2-Methylphenol
Concen: 39.120 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 539412

Ion	Ratio	Lower	Upper
107	100		
108	111.2	90.6	135.8
77	46.3	37.7	56.5
79	46.1	37.2	55.8

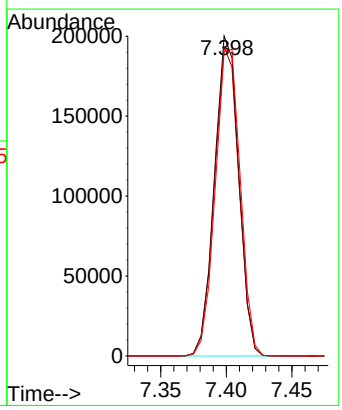


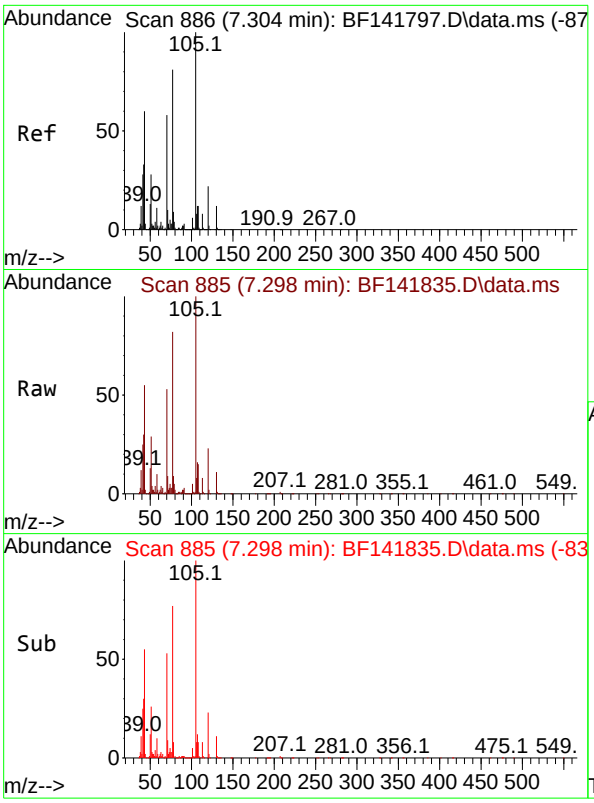


#18
Hexachloroethane
Concen: 38.167 ng
RT: 7.398 min Scan# 902
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:117 Resp: 257495

Ion	Ratio	Lower	Upper
117	100		
119	96.6	75.8	113.8
201	95.3	76.7	115.1



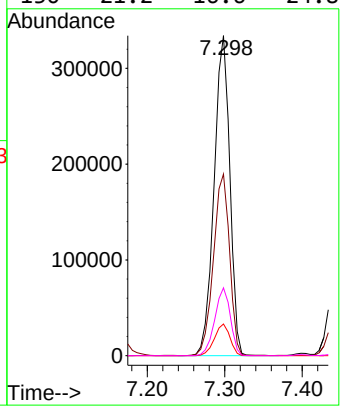


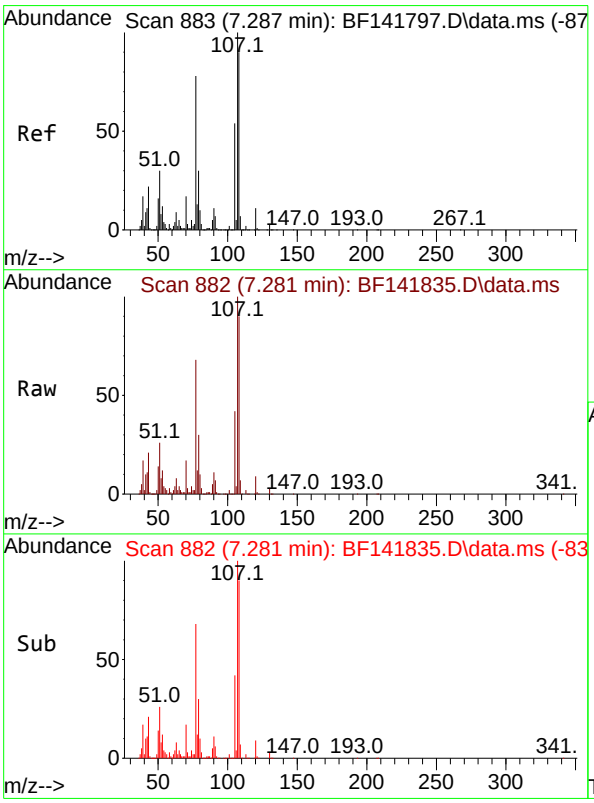
#19
n-Nitroso-di-n-propylamine
Concen: 35.637 ng
RT: 7.298 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 470848

Ion	Ratio	Lower	Upper
70	100		
42	56.8	45.4	68.0
101	9.9	7.8	11.8
130	21.2	16.6	24.8

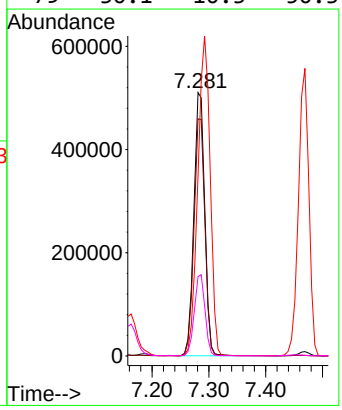


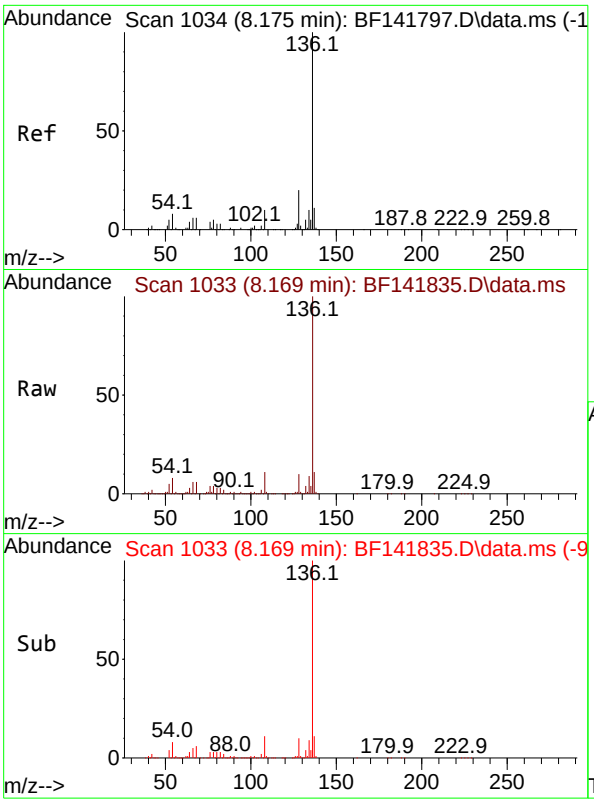


#20
3+4-Methylphenols
Concen: 39.753 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:107 Resp: 682535

Ion	Ratio	Lower	Upper
107	100		
108	90.0	69.7	109.7
77	68.4	58.3	98.3
79	30.1	10.3	50.3



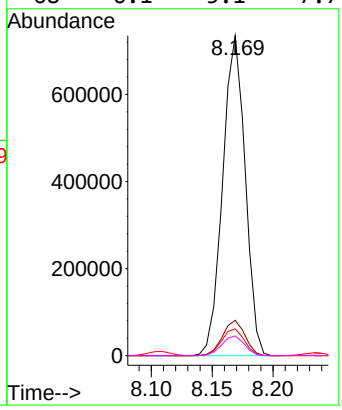


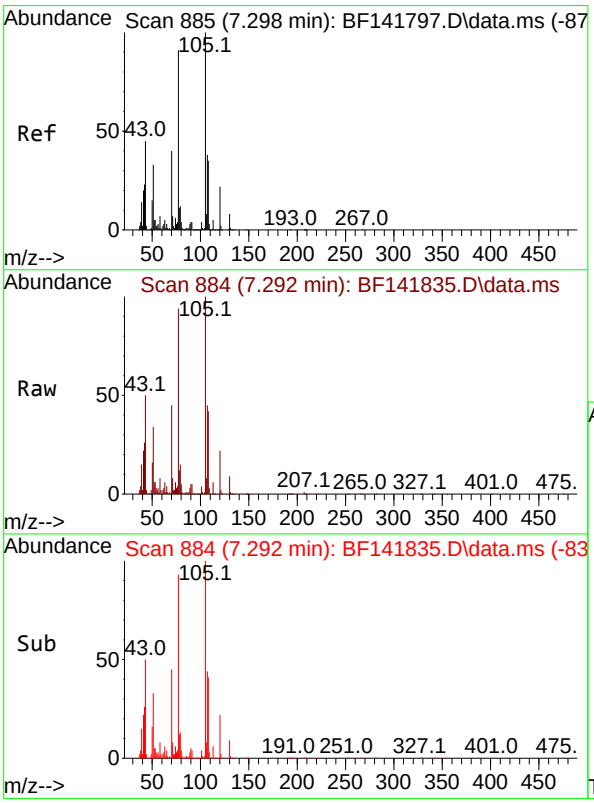
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 945299

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	8.4	6.9	10.3
68	6.1	5.1	7.7

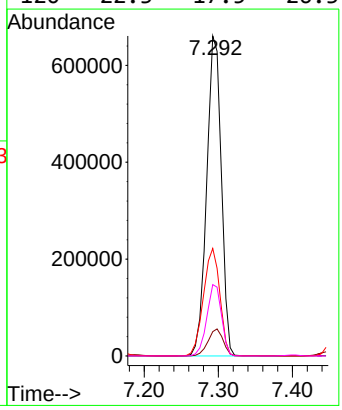


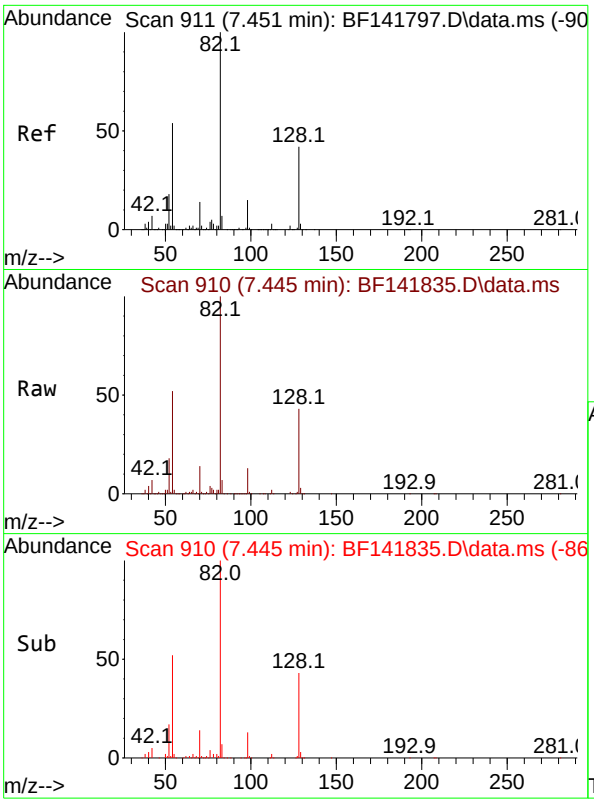


#22
Acetophenone
Concen: 39.406 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:105 Resp: 907232

Ion	Ratio	Lower	Upper
105	100		
71	7.6	5.4	8.0
51	33.6	26.1	39.1
120	22.3	17.5	26.3



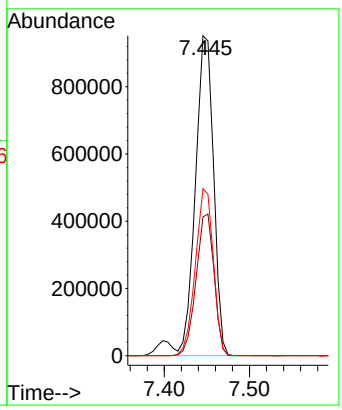


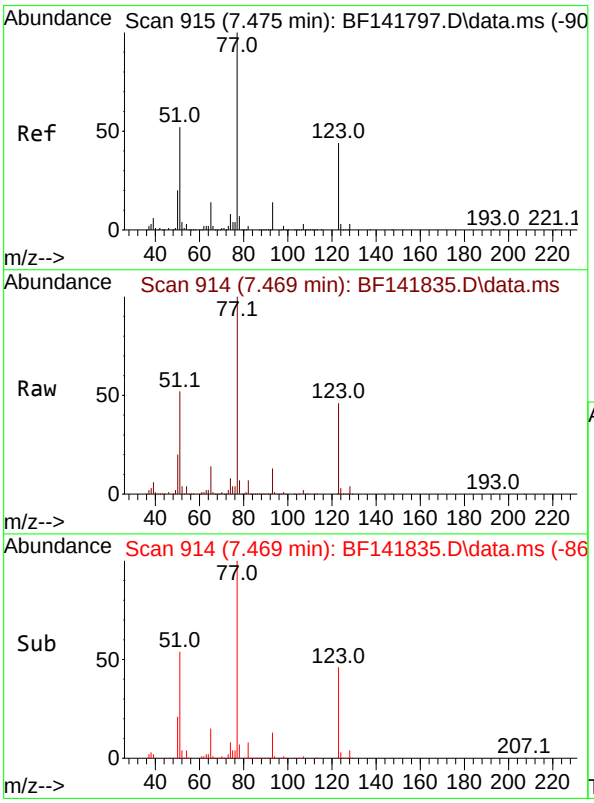
#23
Nitrobenzene-d5
Concen: 94.823 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 1402310

Ion	Ratio	Lower	Upper
82	100		
128	43.4	33.5	50.3
54	52.2	42.7	64.1

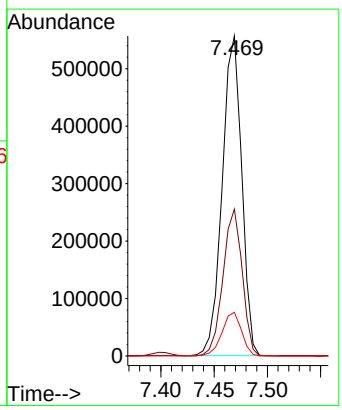


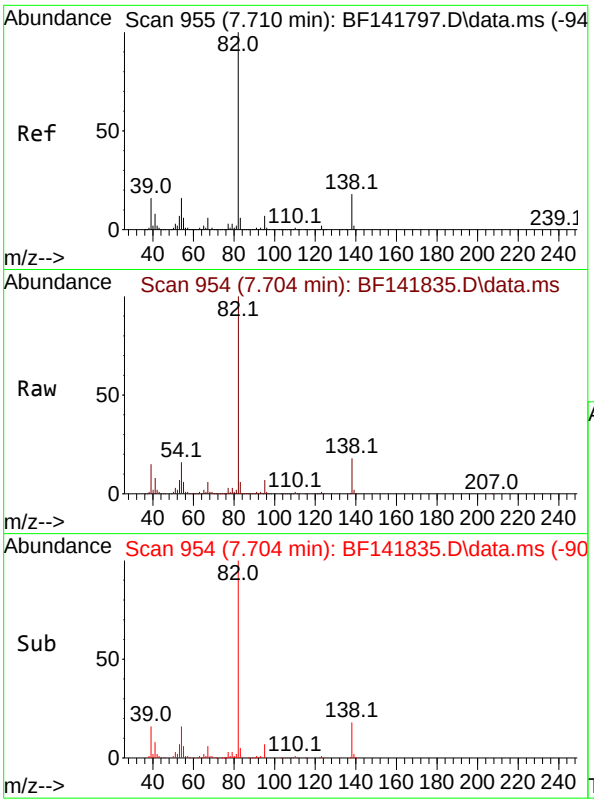


#24
Nitrobenzene
Concen: 44.751 ng
RT: 7.469 min Scan# 914
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 77 Resp: 708702

Ion	Ratio	Lower	Upper
77	100		
123	45.9	35.8	53.8
65	13.7	11.2	16.8



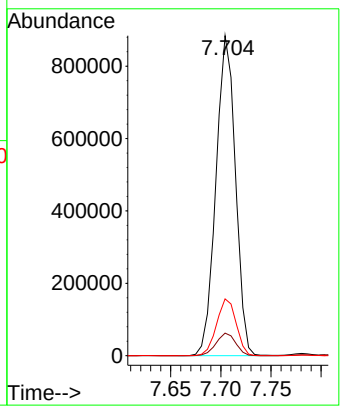


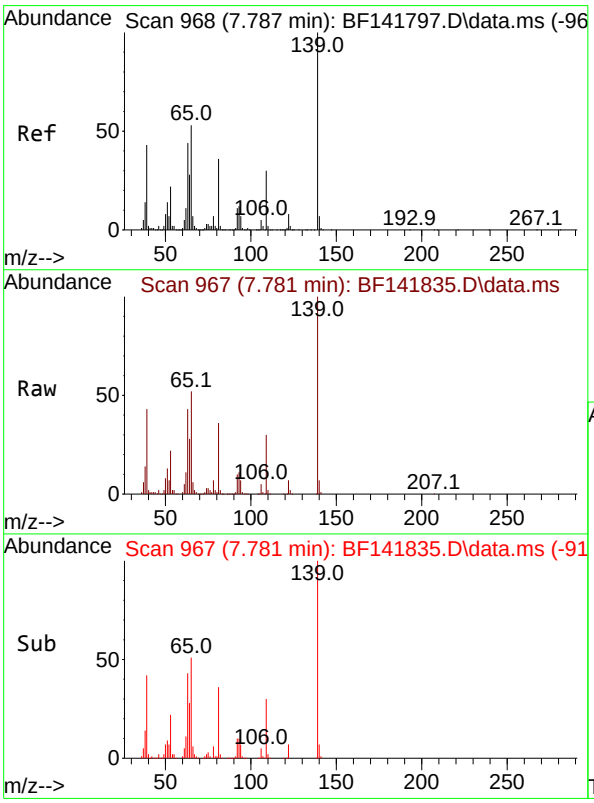
#25
Isophorone
Concen: 37.638 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 1195819

Ion	Ratio	Lower	Upper
82	100		
95	7.1	5.8	8.8
138	17.8	14.0	21.0

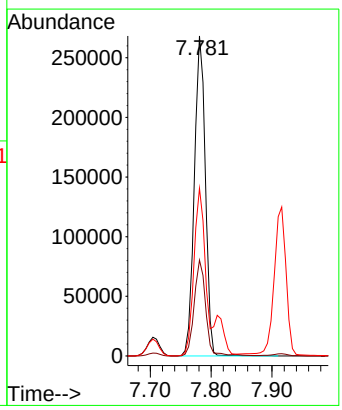


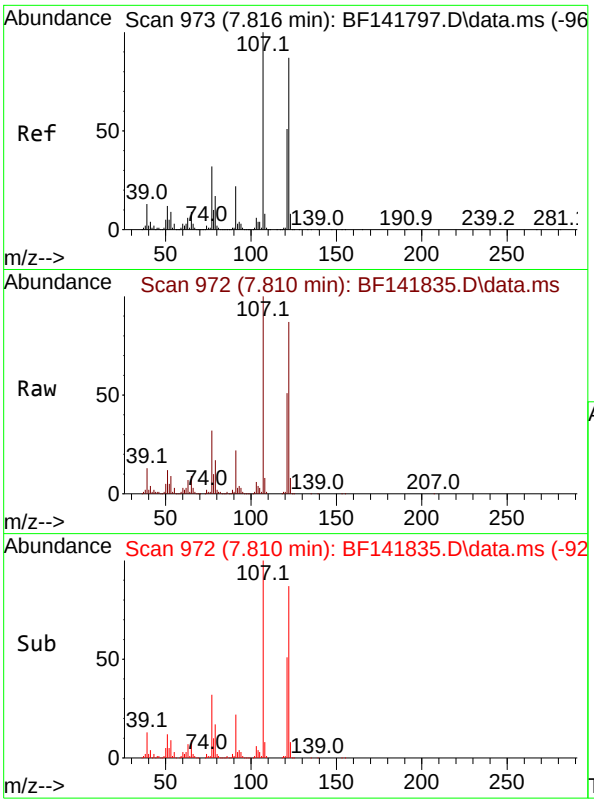


#26
2-Nitrophenol
Concen: 47.760 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:139 Resp: 337701

Ion	Ratio	Lower	Upper
139	100		
109	29.9	24.1	36.1
65	52.4	42.3	63.5



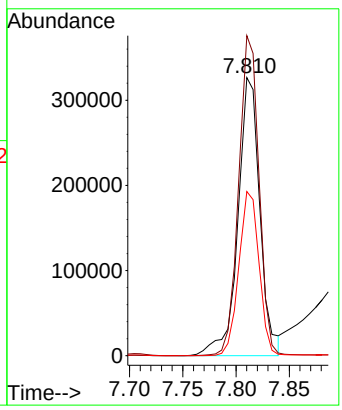


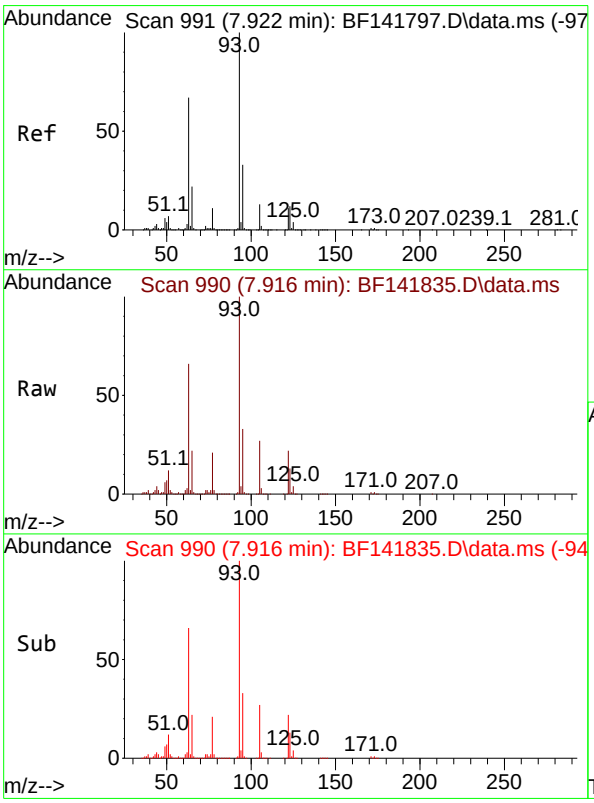
#27
2,4-Dimethylphenol
Concen: 40.220 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 469729

Ion	Ratio	Lower	Upper
122	100		
107	115.1	92.5	138.7
121	59.0	47.1	70.7

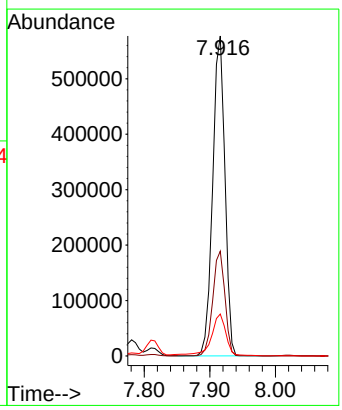


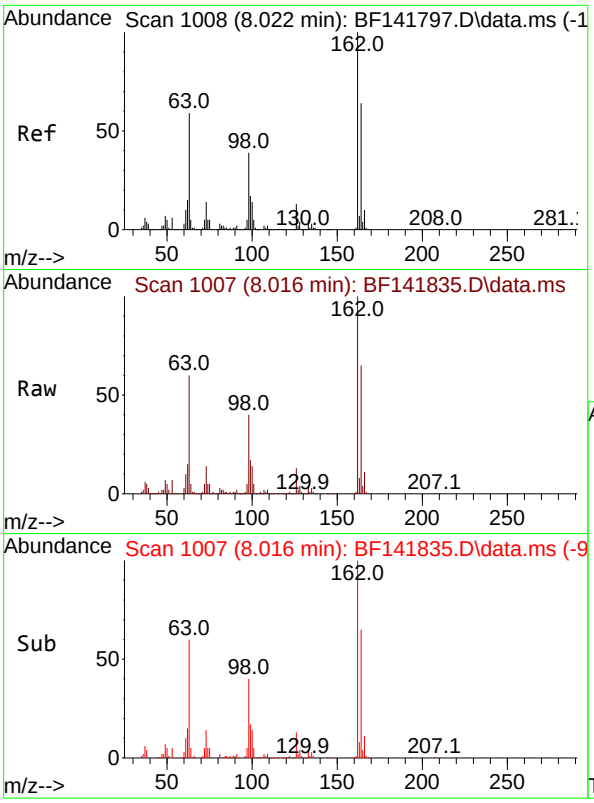


#28
bis(2-Chloroethoxy)methane
Concen: 36.892 ng
RT: 7.916 min Scan# 990
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 93 Resp: 747705

Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.5	39.7
123	13.1	10.0	15.0



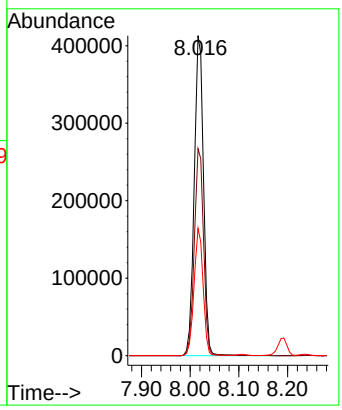


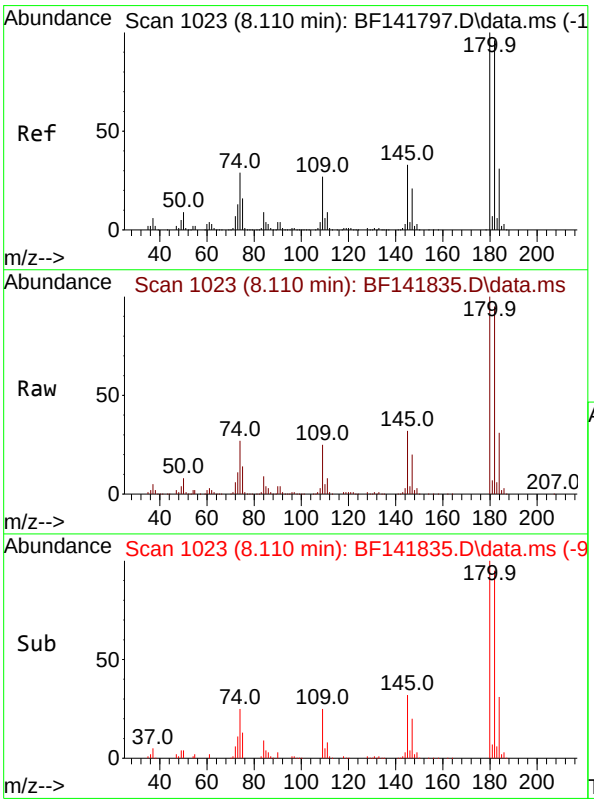
#29
2,4-Dichlorophenol
Concen: 40.846 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 550338

Ion	Ratio	Lower	Upper
162	100		
164	64.7	44.3	84.3
98	39.8	19.6	59.6

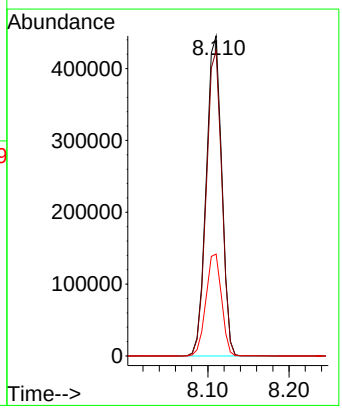


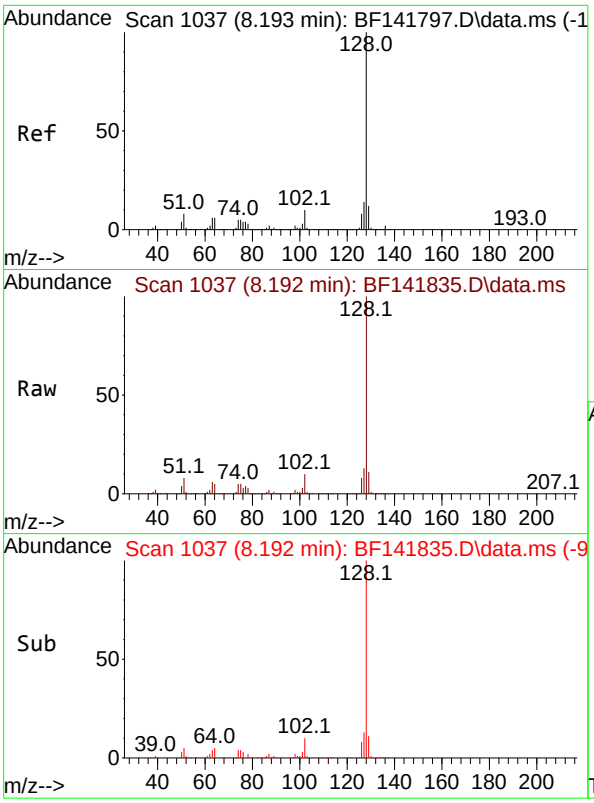


#30
1,2,4-Trichlorobenzene
Concen: 39.998 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:180 Resp: 590525

Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.8	115.2
145	31.9	26.4	39.6



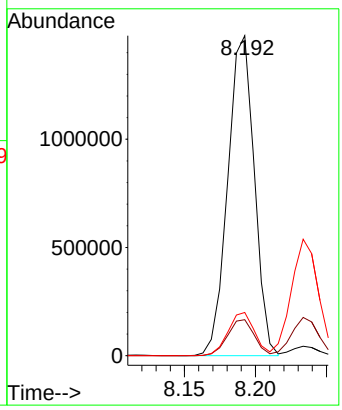


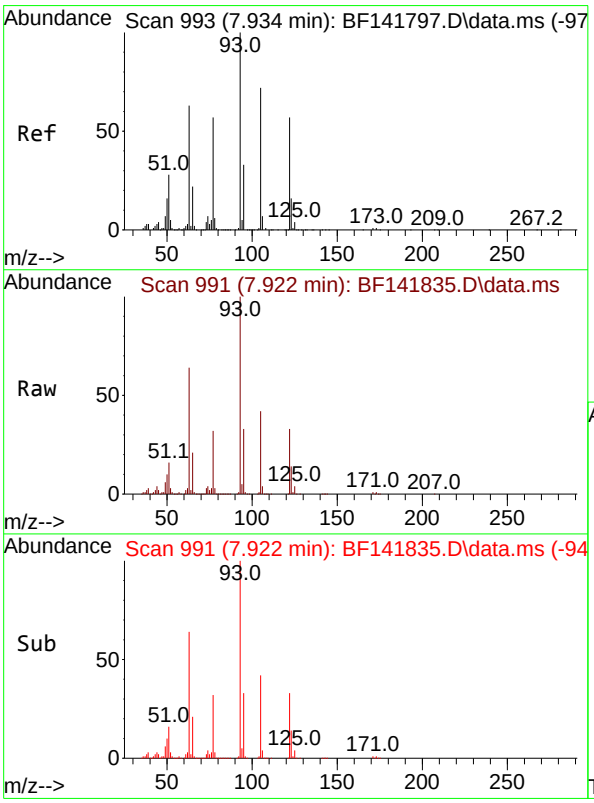
#31
Naphthalene
Concen: 39.574 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 1922662

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.2	13.8
127	13.5	11.0	16.4

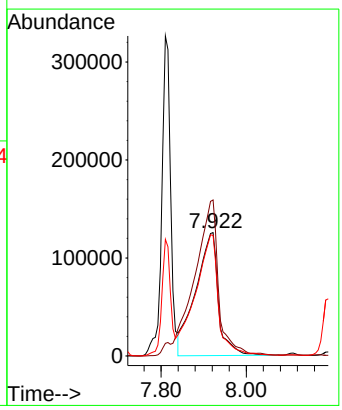


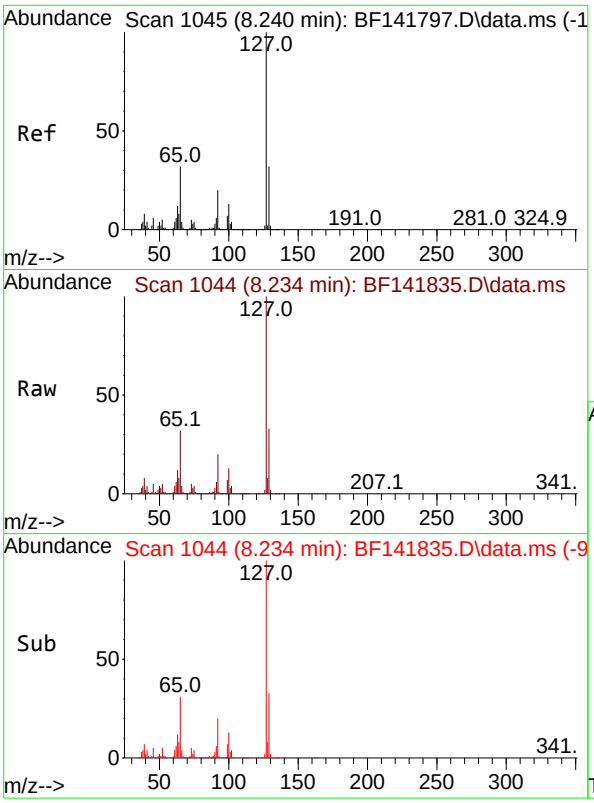


#32
Benzoic acid
Concen: 48.051 ng
RT: 7.922 min Scan# 991
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:122 Resp: 468479

Ion	Ratio	Lower	Upper
122	100		
105	126.5	105.8	145.8
77	97.8	79.9	119.9



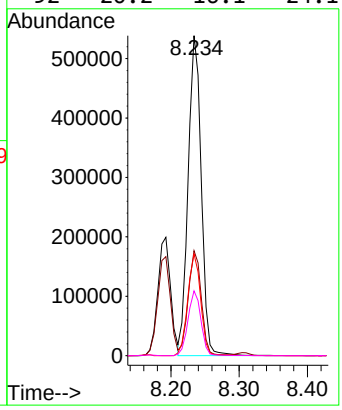


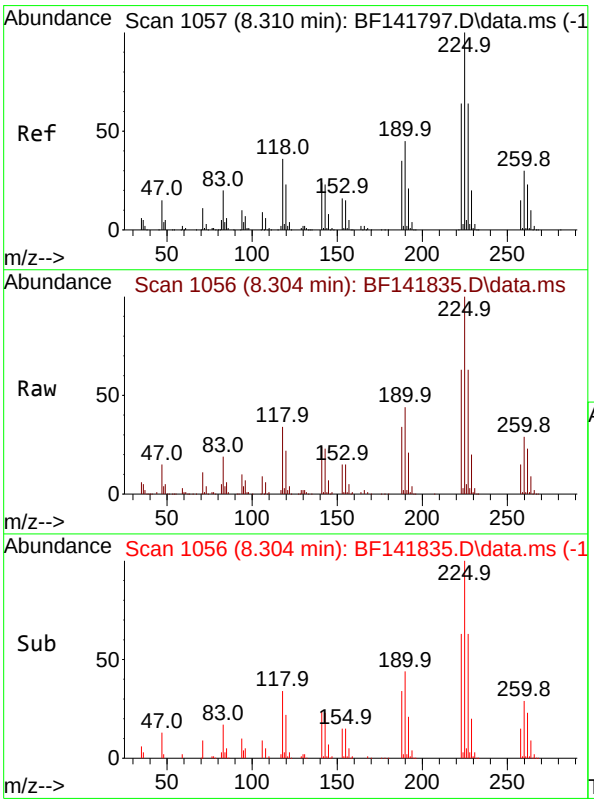
#33
4-Chloroaniline
Concen: 40.091 ng
RT: 8.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 714189

Ion	Ratio	Lower	Upper
127	100		
129	32.8	26.1	39.1
65	31.7	25.7	38.5
92	20.2	16.1	24.1

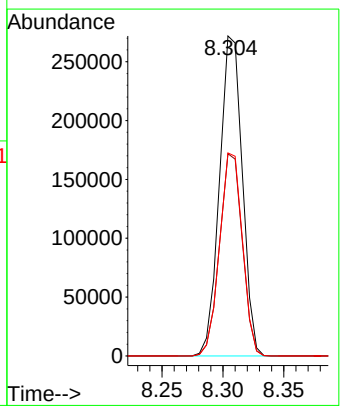


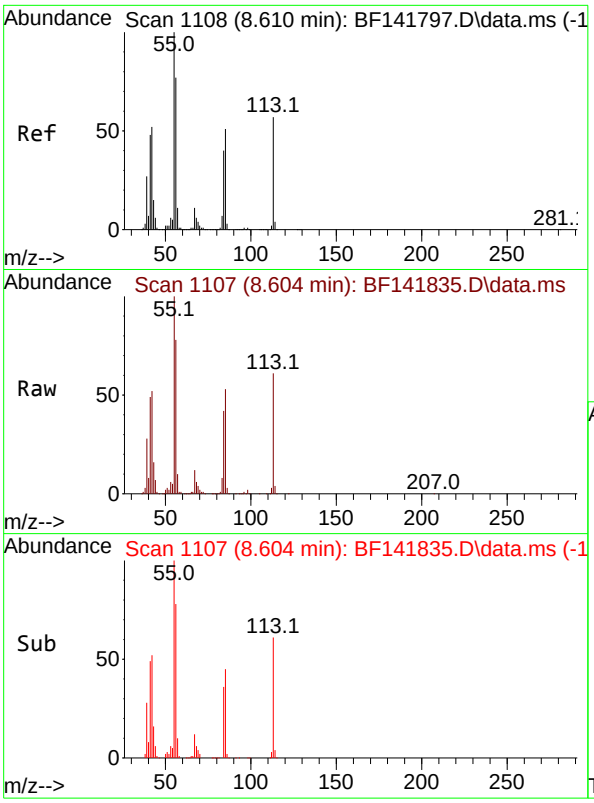


#34
Hexachlorobutadiene
Concen: 38.603 ng
RT: 8.304 min Scan# 1056
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:225 Resp: 354160

Ion	Ratio	Lower	Upper
225	100		
223	63.2	51.4	77.2
227	63.5	51.6	77.4



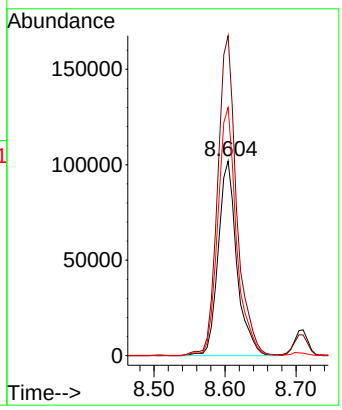


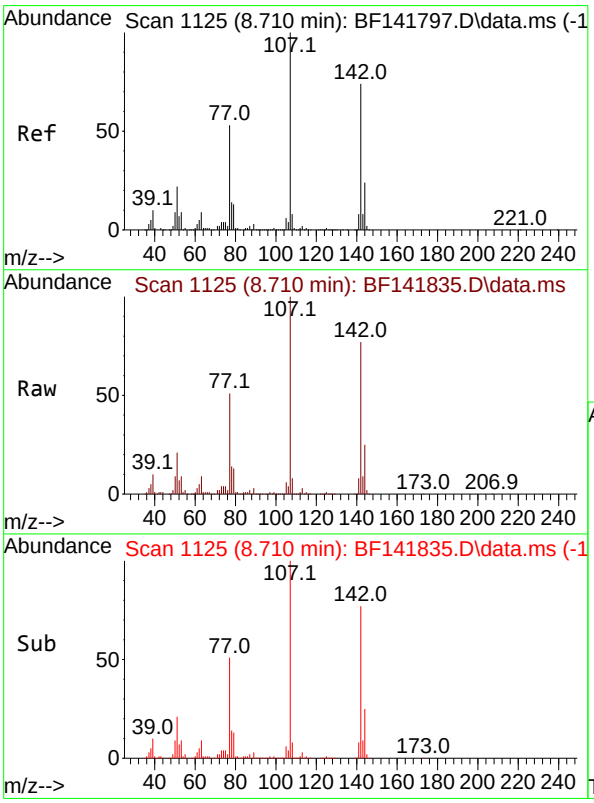
#35
Caprolactam
Concen: 44.676 ng
RT: 8.604 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 185176

Ion	Ratio	Lower	Upper
113	100		
55	164.3	155.6	195.6
56	127.4	114.6	154.6

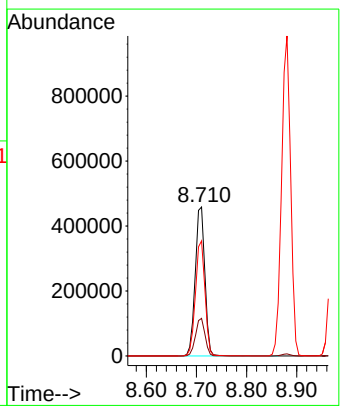


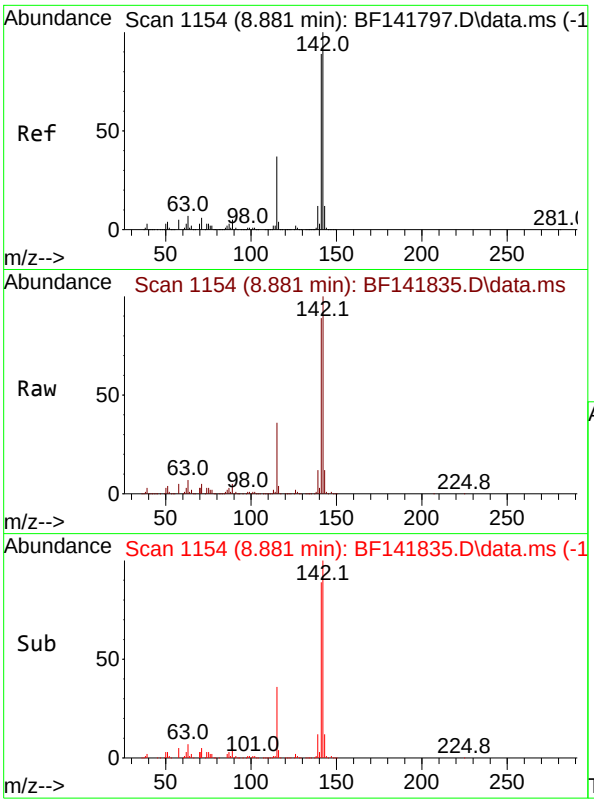


#36
4-Chloro-3-methylphenol
Concen: 40.944 ng
RT: 8.710 min Scan# 1125
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:107 Resp: 612816

Ion	Ratio	Lower	Upper
107	100		
144	25.2	19.4	29.0
142	77.2	59.4	89.0



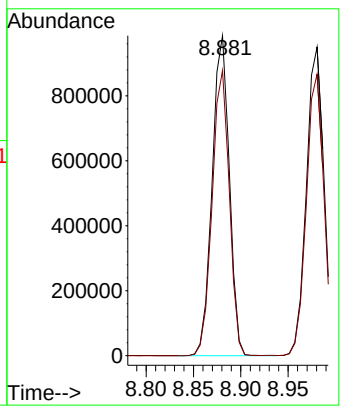


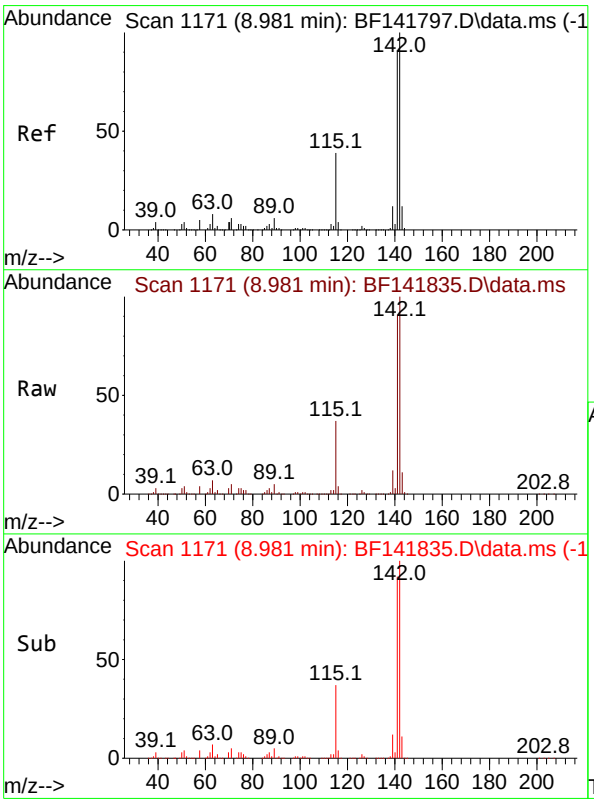
#37
2-Methylnaphthalene
Concen: 38.964 ng
RT: 8.881 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 1241689

Ion	Ratio	Lower	Upper
142	100		
141	89.1	71.1	106.7

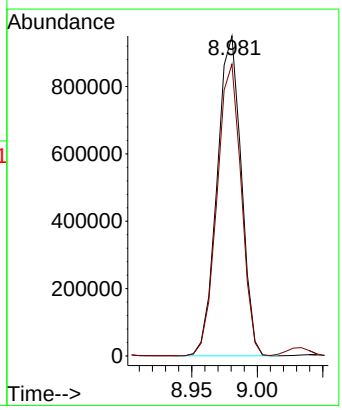


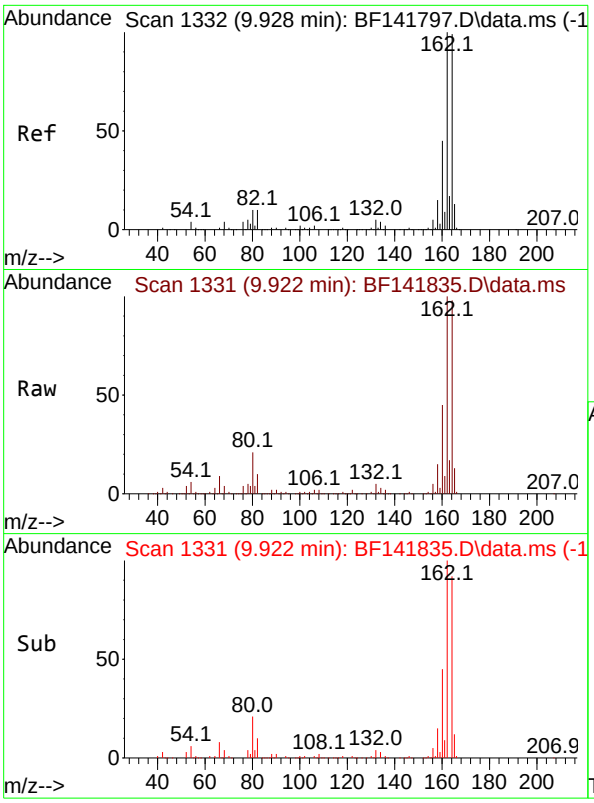


#38
1-Methylnaphthalene
Concen: 39.860 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:142 Resp: 1218817

Ion	Ratio	Lower	Upper
142	100		
141	91.2	73.1	109.7



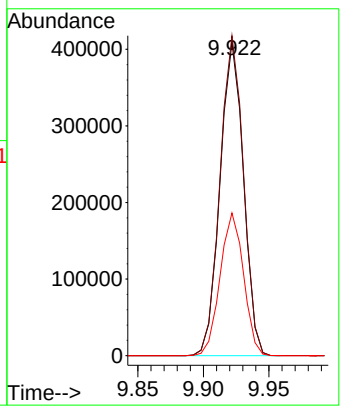


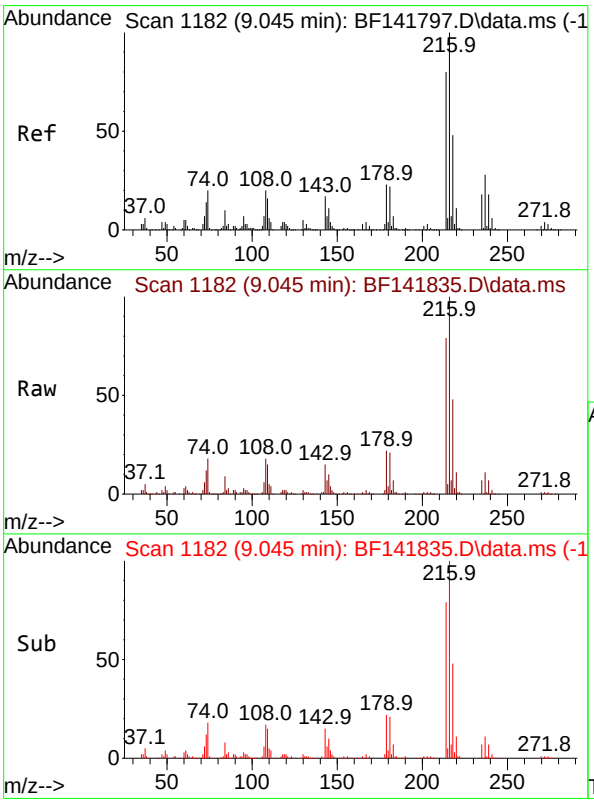
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 507589

Ion	Ratio	Lower	Upper
164	100		
162	102.1	80.6	120.8
160	45.5	36.3	54.5

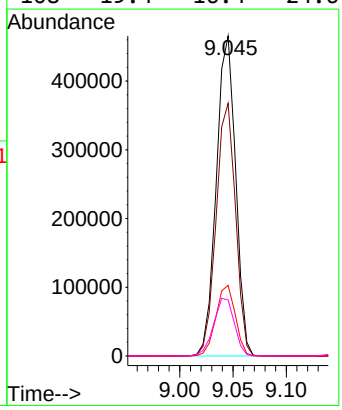


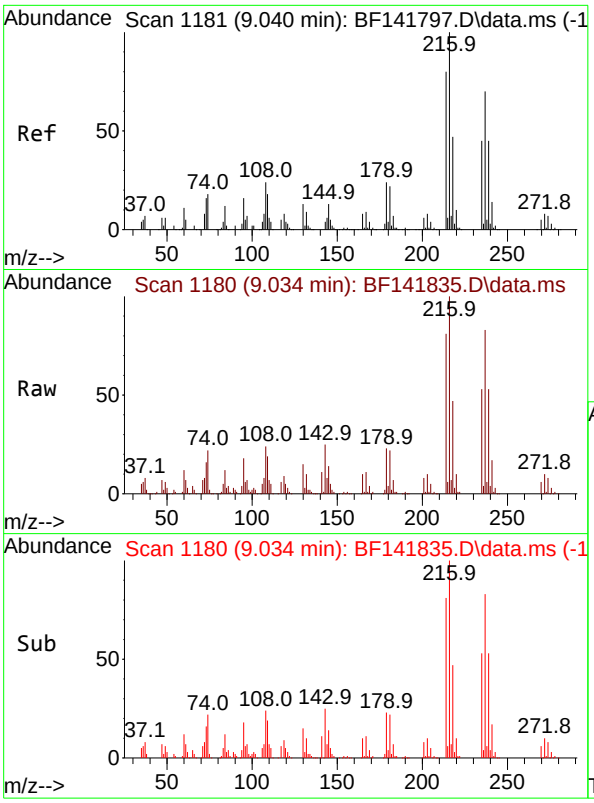


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.950 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:216 Resp: 585654

Ion	Ratio	Lower	Upper
216	100		
214	79.3	63.5	95.3
179	22.2	18.1	27.1
108	19.4	16.4	24.6



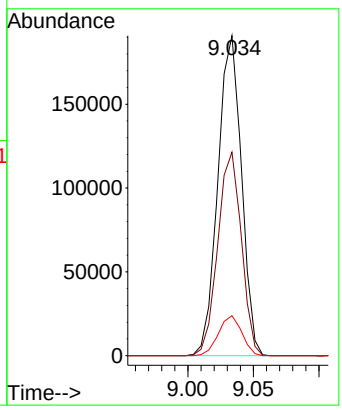


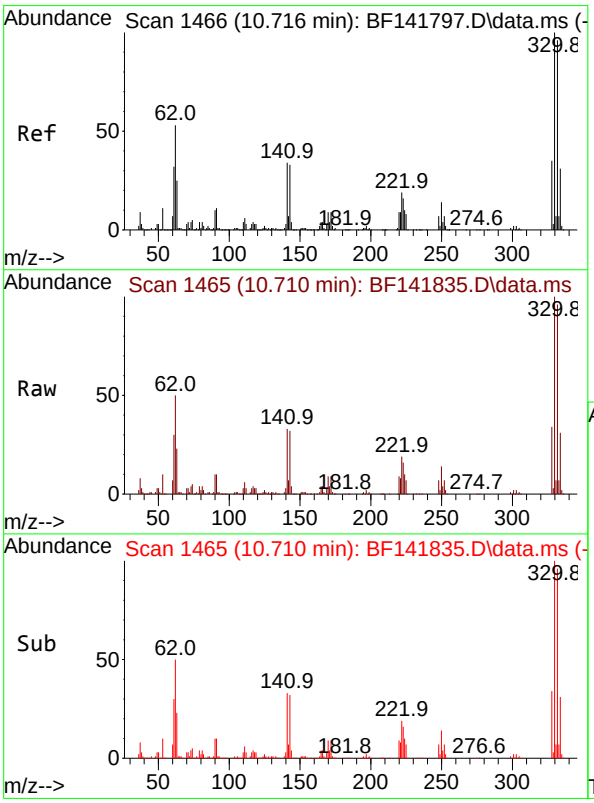
#41
Hexachlorocyclopentadiene
Concen: 38.977 ng
RT: 9.034 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 238457

Ion	Ratio	Lower	Upper
237	100		
235	63.6	43.3	83.3
272	12.5	0.0	31.9

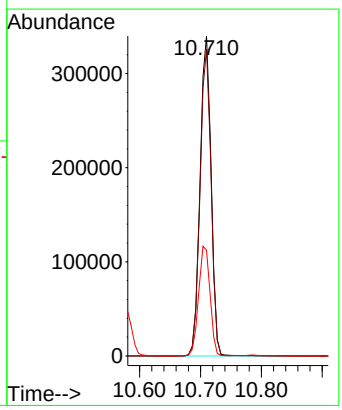


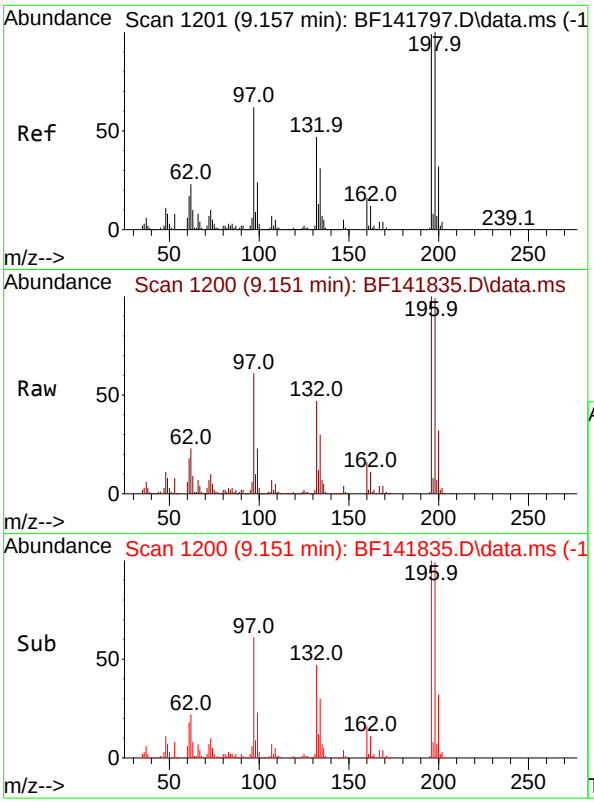


#42
2,4,6-Tribromophenol
Concen: 89.332 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:330 Resp: 425699

Ion	Ratio	Lower	Upper
330	100		
332	95.9	76.6	115.0
141	35.7	29.0	43.4



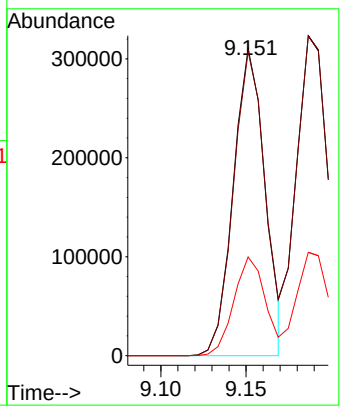


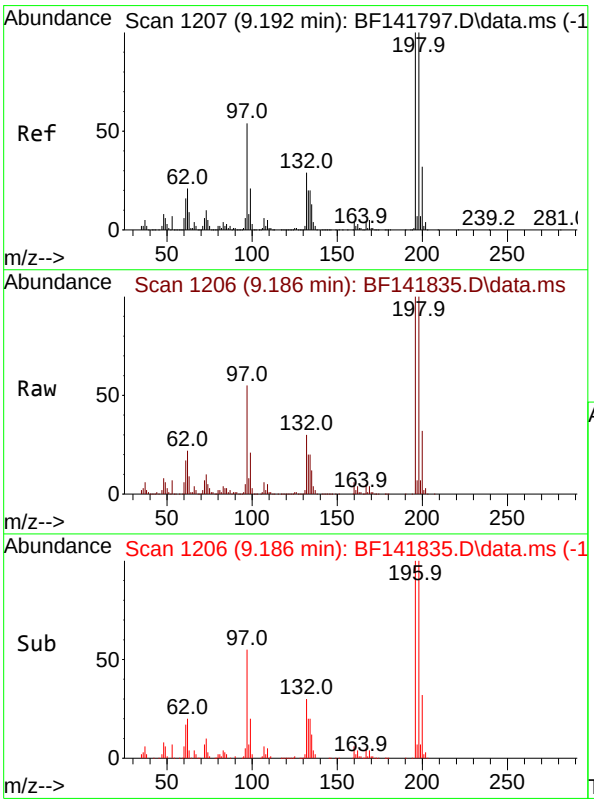
#43
2,4,6-Trichlorophenol
Concen: 42.317 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 400730

Ion	Ratio	Lower	Upper
196	100		
198	98.9	80.4	120.6
200	32.1	25.7	38.5

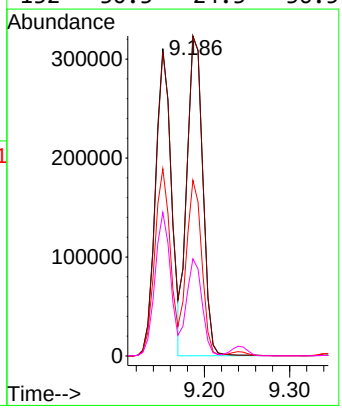


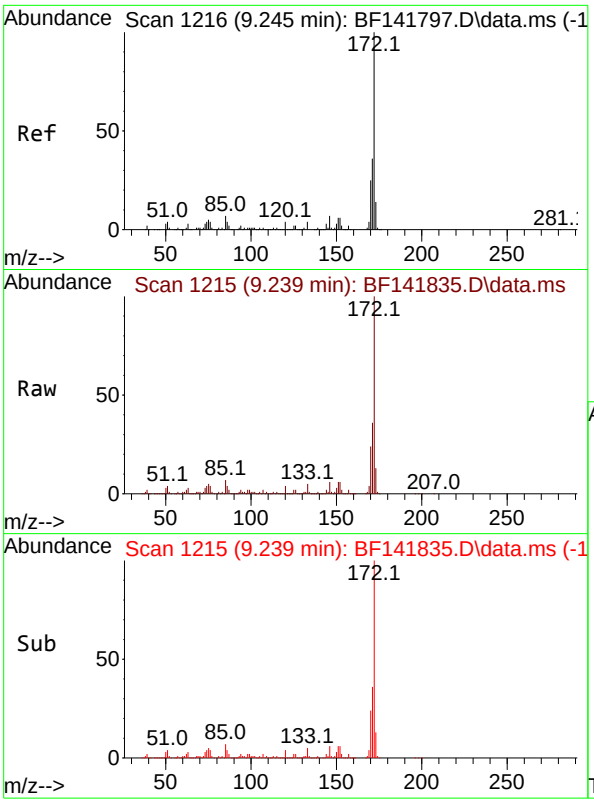


#44
2,4,5-Trichlorophenol
Concen: 44.643 ng
RT: 9.186 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:196 Resp: 418618

Ion	Ratio	Lower	Upper
196	100		
198	99.9	79.7	119.5
97	54.9	44.2	66.2
132	30.3	24.3	36.5



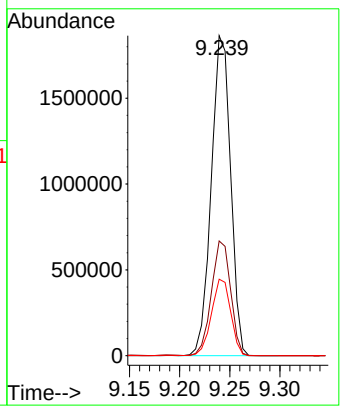


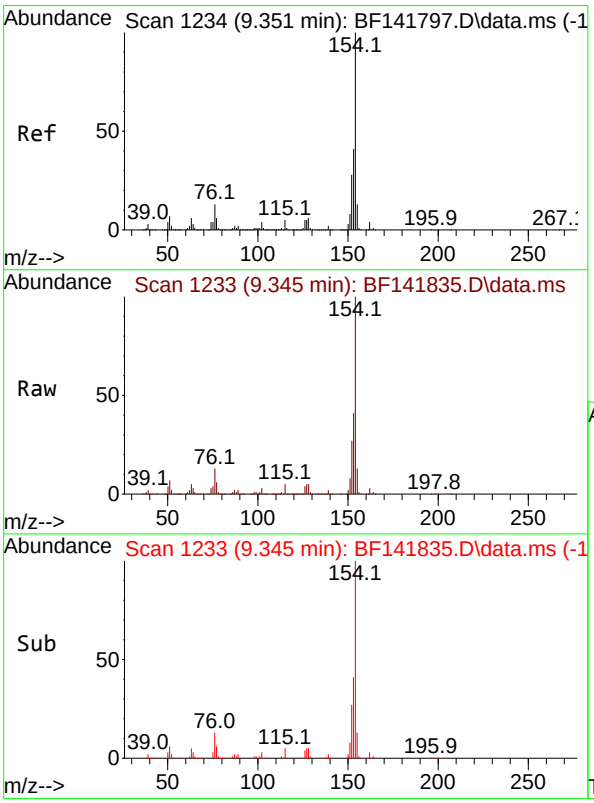
#45
2-Fluorobiphenyl
Concen: 78.861 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 2496418

Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.2	43.8
170	23.9	19.7	29.5

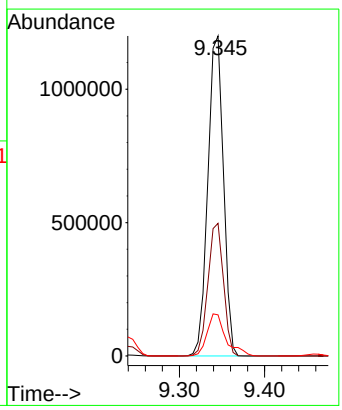


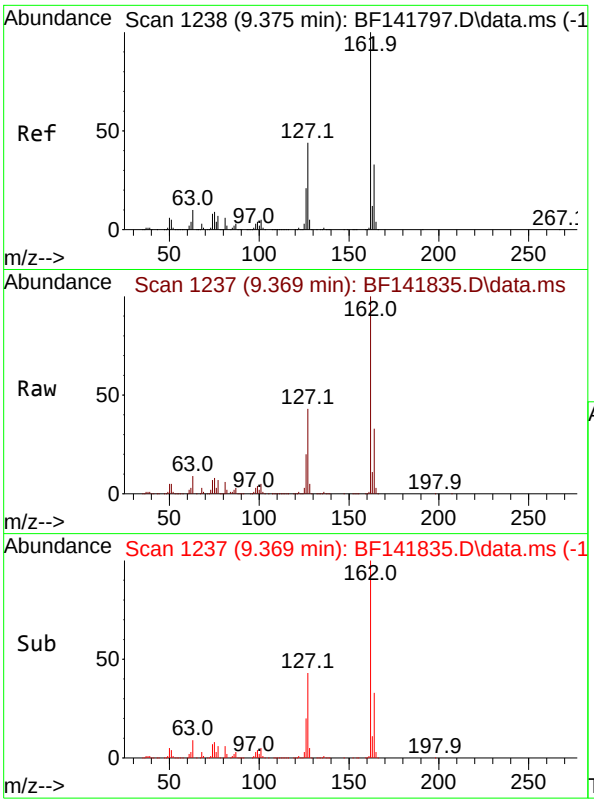


#46
1,1'-Biphenyl
Concen: 39.541 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:154 Resp: 1527684

Ion	Ratio	Lower	Upper
154	100		
153	41.4	21.4	61.4
76	12.9	0.0	33.4



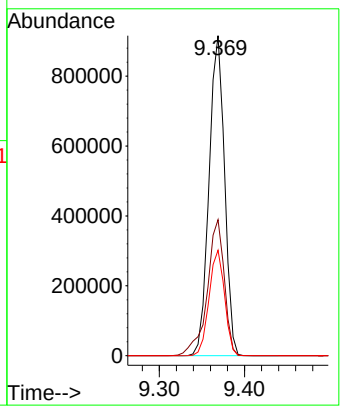


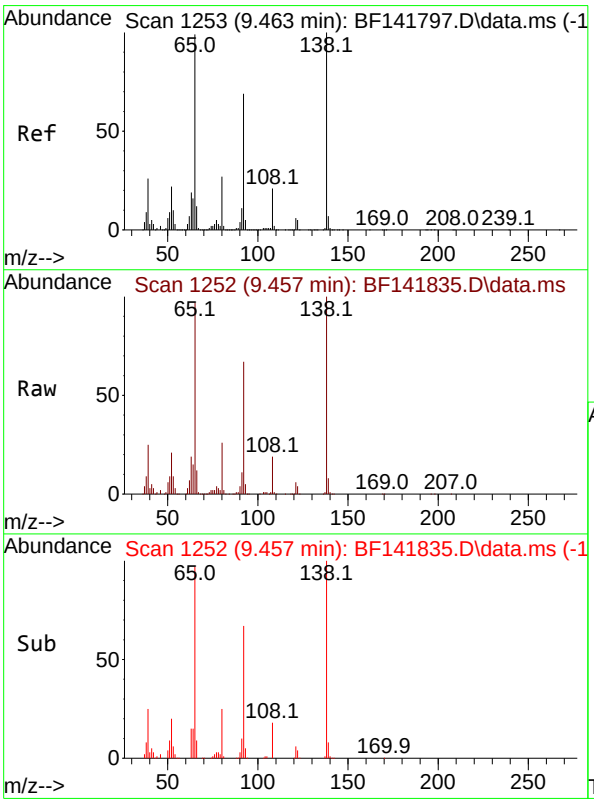
#47
2-Chloronaphthalene
Concen: 40.733 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 1161554

Ion	Ratio	Lower	Upper
162	100		
127	42.5	35.0	52.6
164	32.9	26.6	40.0

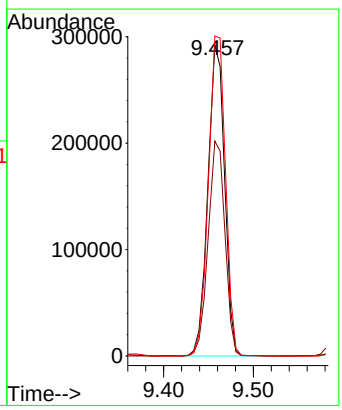


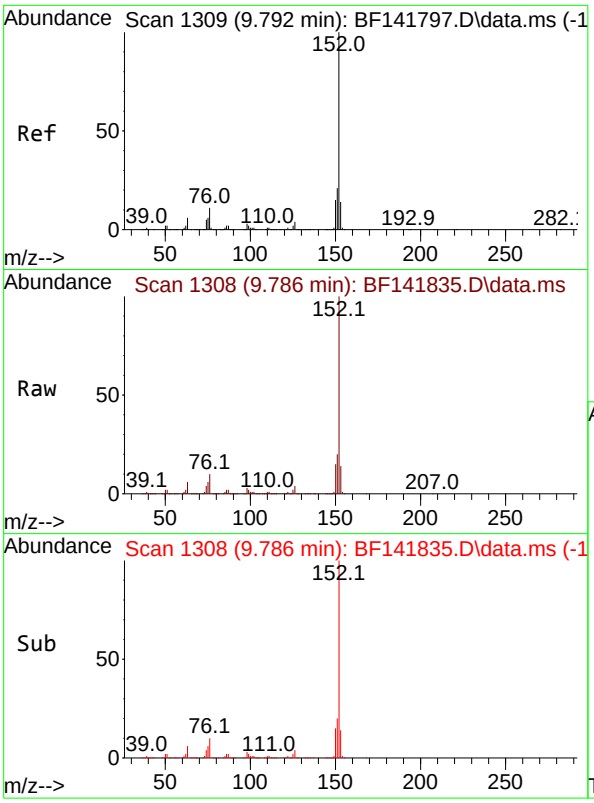


#48
2-Nitroaniline
Concen: 48.579 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 65 Resp: 379633

Ion	Ratio	Lower	Upper
65	100		
92	69.0	55.7	83.5
138	102.8	80.6	121.0



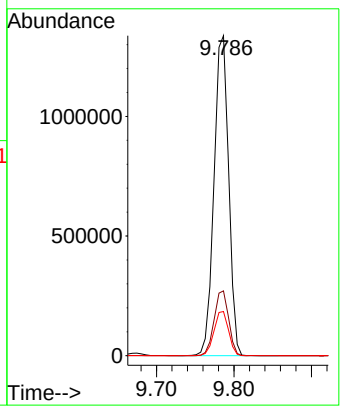


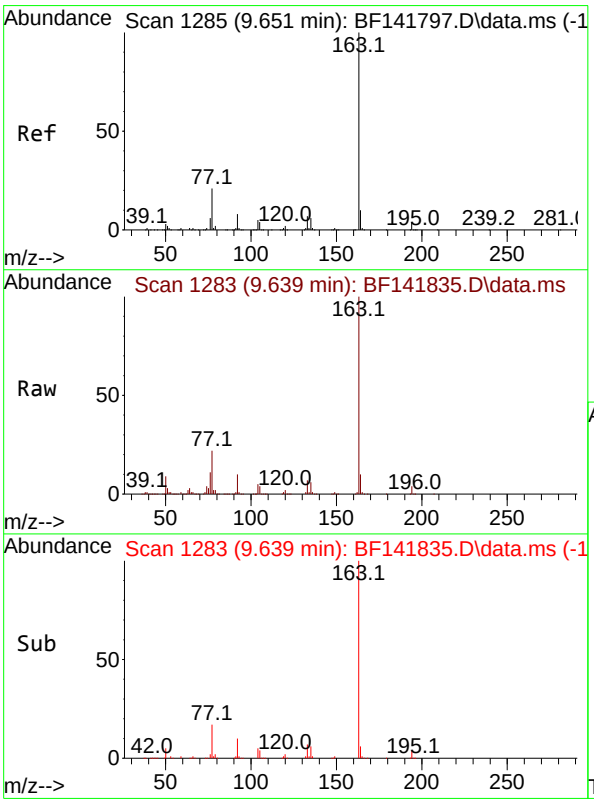
#49
Acenaphthylene
Concen: 40.985 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 1752309

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.6	24.8
153	13.8	11.2	16.8

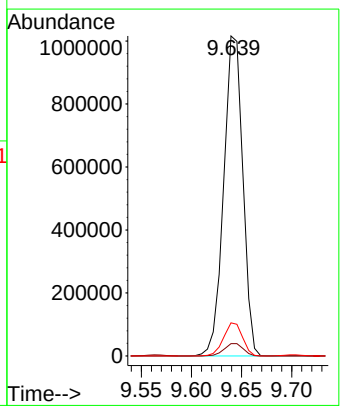


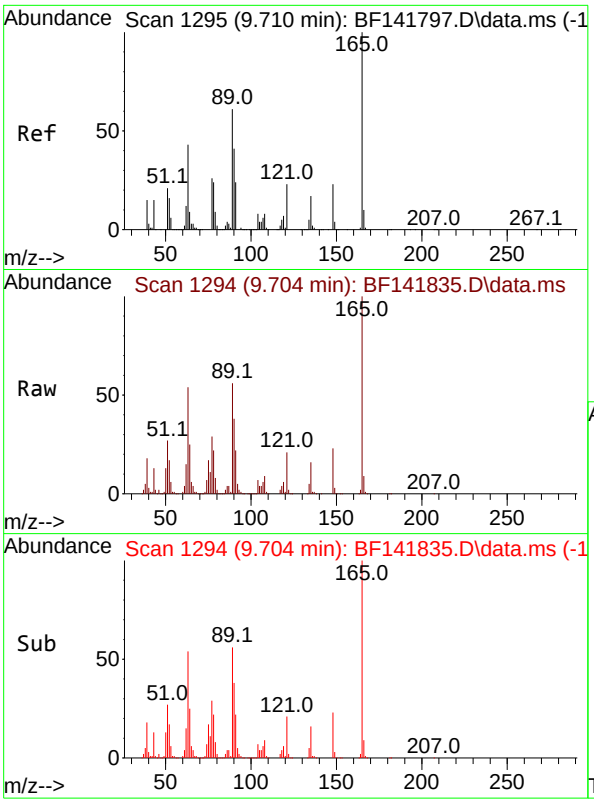


#50
Dimethylphthalate
Concen: 39.595 ng
RT: 9.639 min Scan# 1283
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:163 Resp: 1345931

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.1	4.7
164	10.4	8.4	12.6



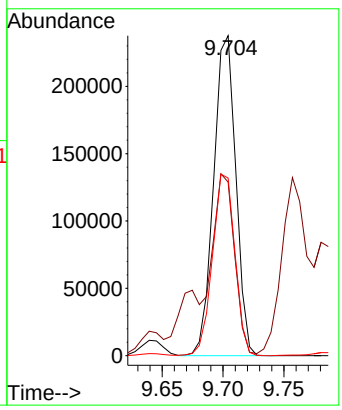


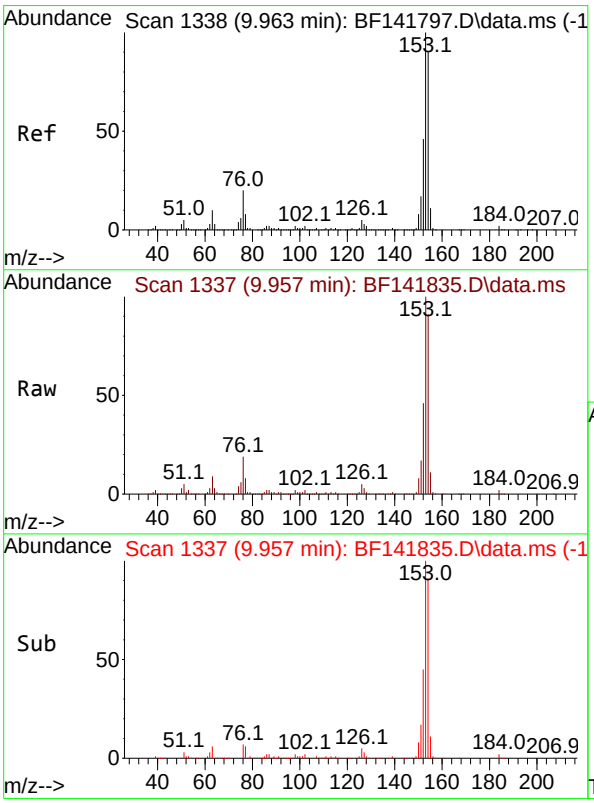
#51
2,6-Dinitrotoluene
Concen: 46.487 ng
RT: 9.704 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 301676

Ion	Ratio	Lower	Upper
165	100		
63	54.2	49.5	74.3
89	55.5	49.0	73.4

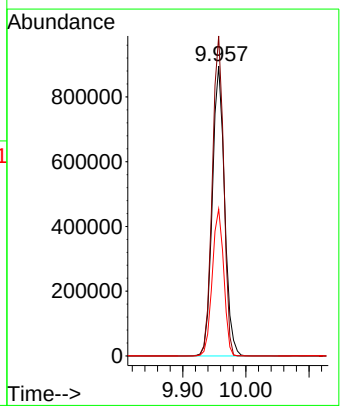


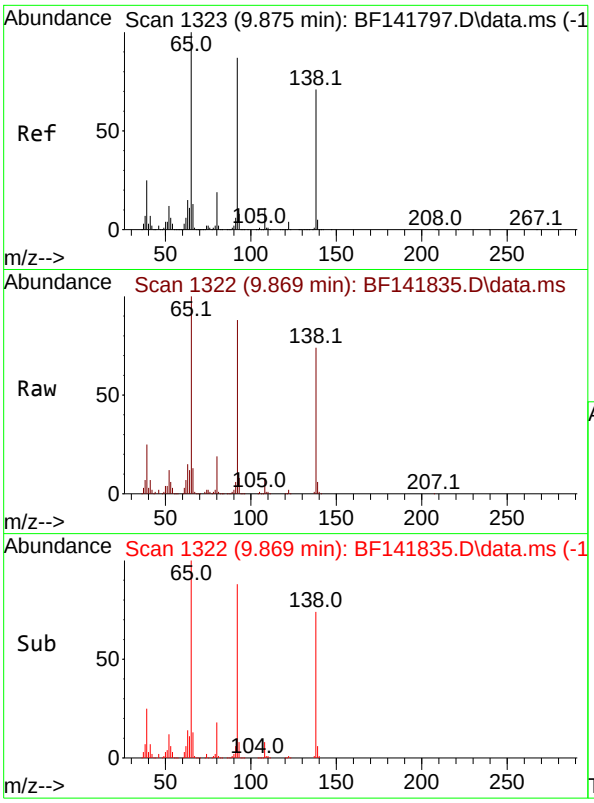


#52
Acenaphthene
Concen: 41.819 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:154 Resp: 1206437

Ion	Ratio	Lower	Upper
154	100		
153	110.4	88.7	133.1
152	50.7	40.9	61.3



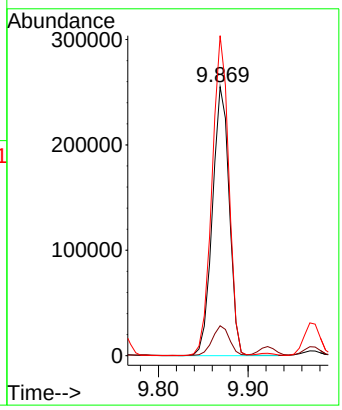


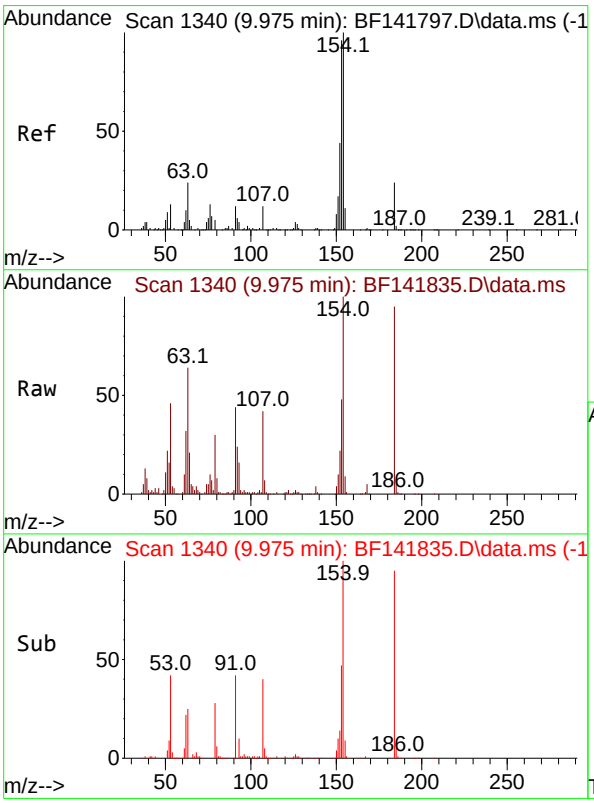
#53
3-Nitroaniline
Concen: 48.006 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 332516

Ion	Ratio	Lower	Upper
138	100		
108	11.1	12.7	19.1#
92	119.0	97.9	146.9

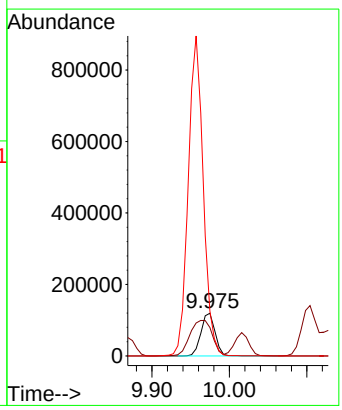


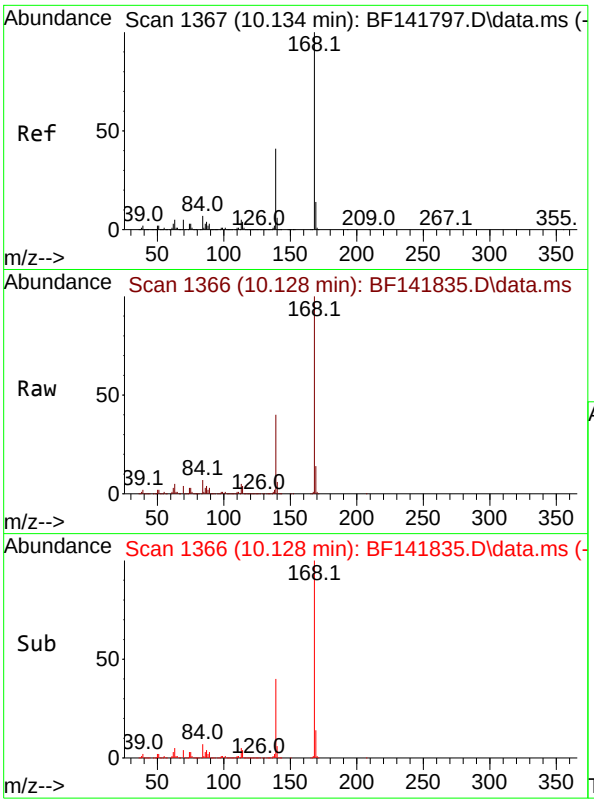


#54
2,4-Dinitrophenol
Concen: 57.060 ng
RT: 9.975 min Scan# 1340
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:184 Resp: 151609

Ion	Ratio	Lower	Upper
184	100		
63	66.7	79.0	118.6#
154	105.0	335.8	503.8#



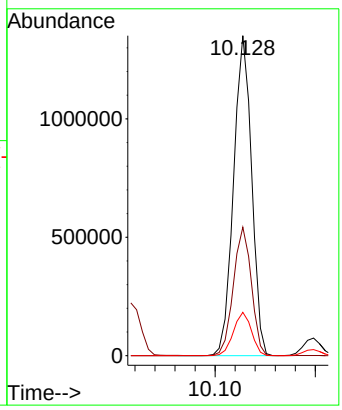


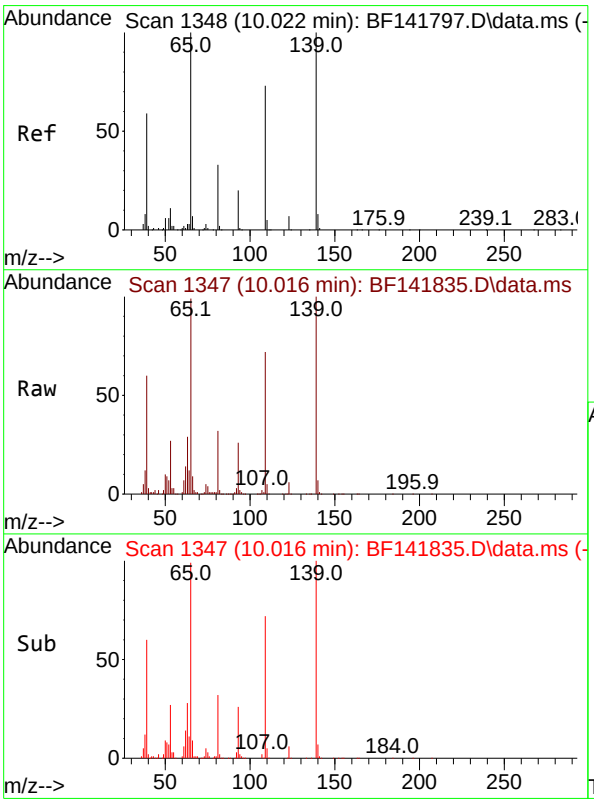
#55
Dibenzofuran
Concen: 40.368 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 1695006

Ion	Ratio	Lower	Upper
168	100		
139	40.2	32.9	49.3
169	13.5	11.1	16.7

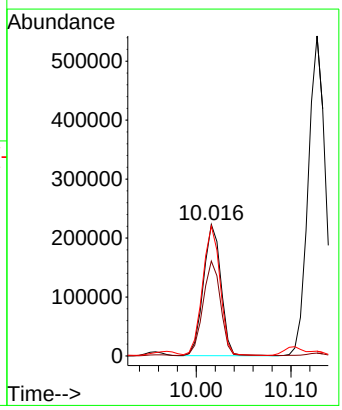


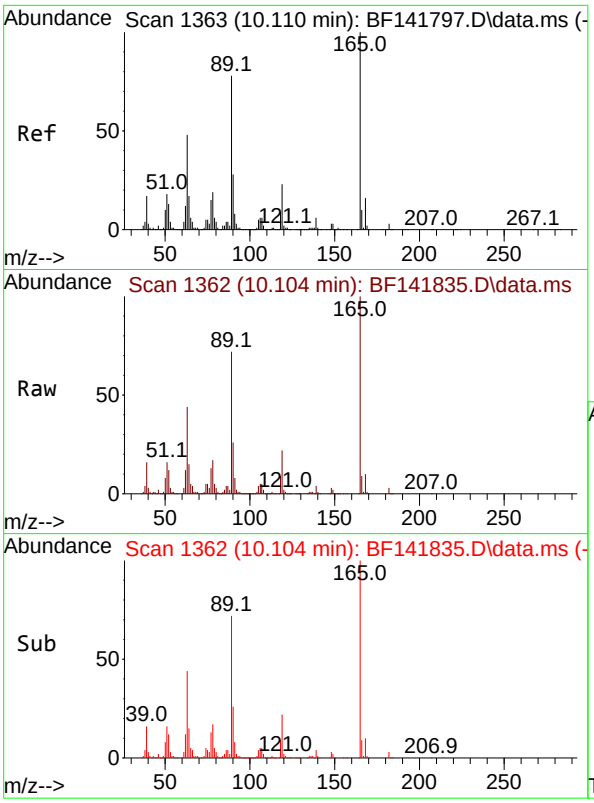


#56
4-Nitrophenol
Concen: 57.194 ng
RT: 10.016 min Scan# 1347
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:139 Resp: 287143

Ion	Ratio	Lower	Upper
139	100		
109	72.2	53.4	93.4
65	98.9	82.1	122.1



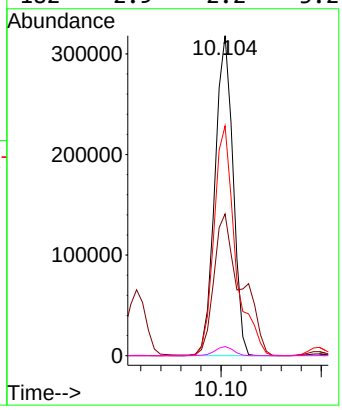


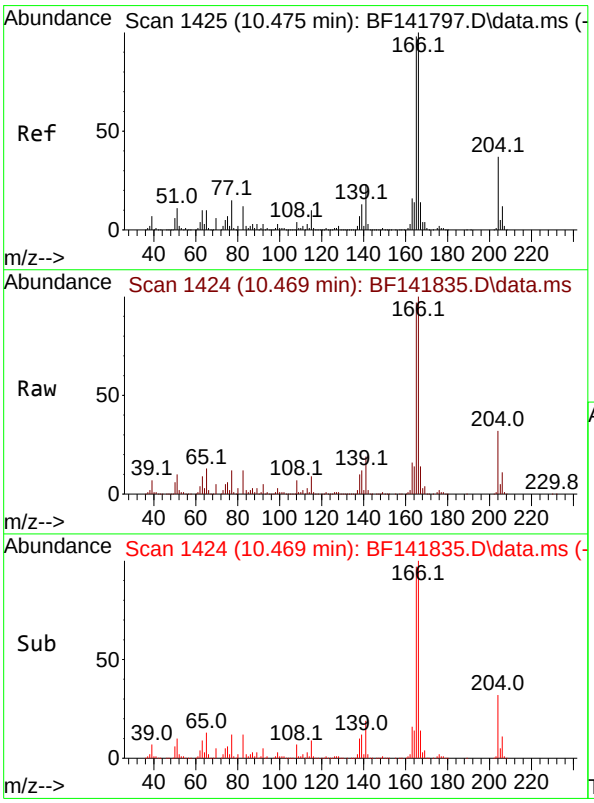
#57
2,4-Dinitrotoluene
Concen: 49.981 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 398234

Ion	Ratio	Lower	Upper
165	100		
63	44.3	38.8	58.2
89	71.8	62.6	94.0
182	2.9	2.2	3.2

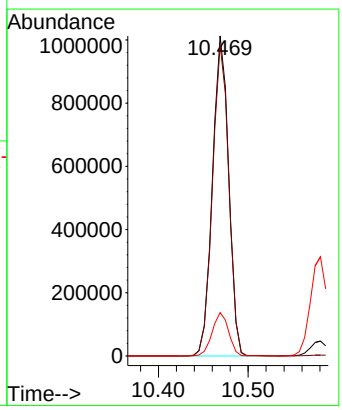


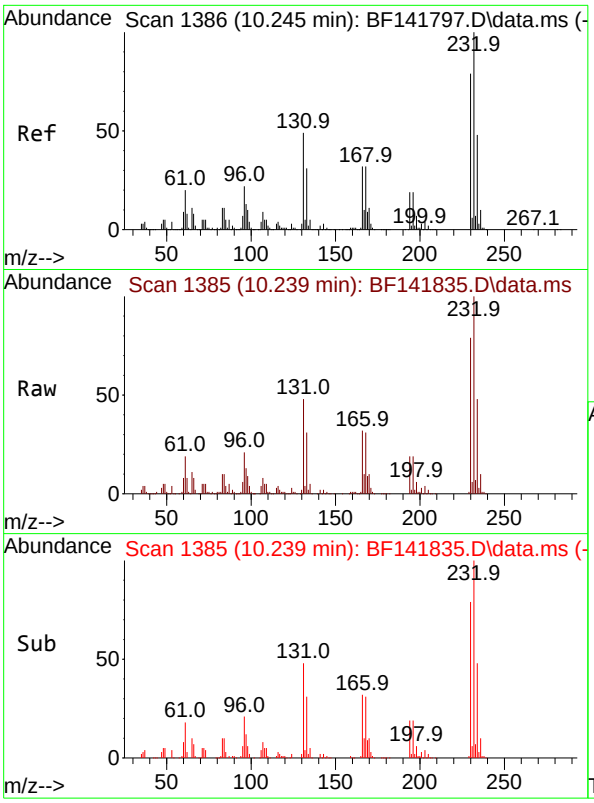


#58
Fluorene
Concen: 40.458 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:166 Resp: 1272485

Ion	Ratio	Lower	Upper
166	100		
165	97.3	78.6	117.8
167	13.6	11.0	16.4



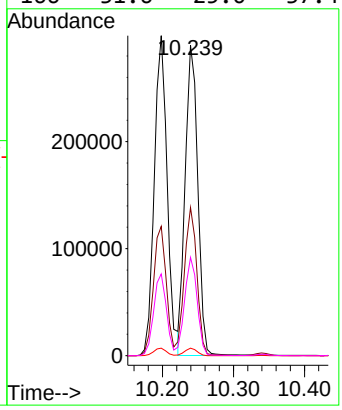


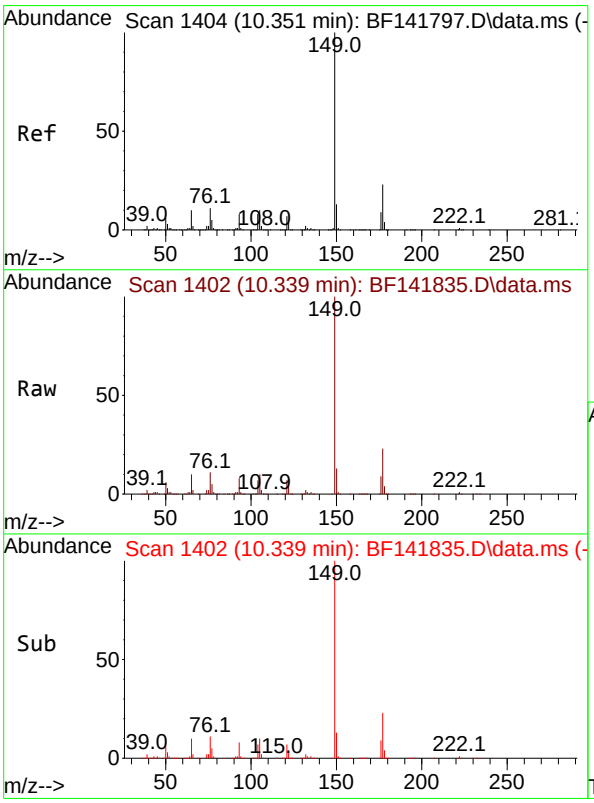
#59
2,3,4,6-Tetrachlorophenol
Concen: 43.711 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 356479

Ion	Ratio	Lower	Upper
232	100		
131	47.5	37.8	56.8
130	2.4	2.0	3.0
166	31.6	25.0	37.4

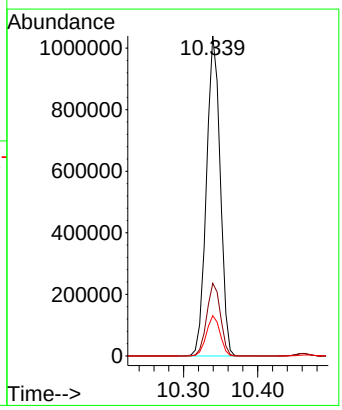


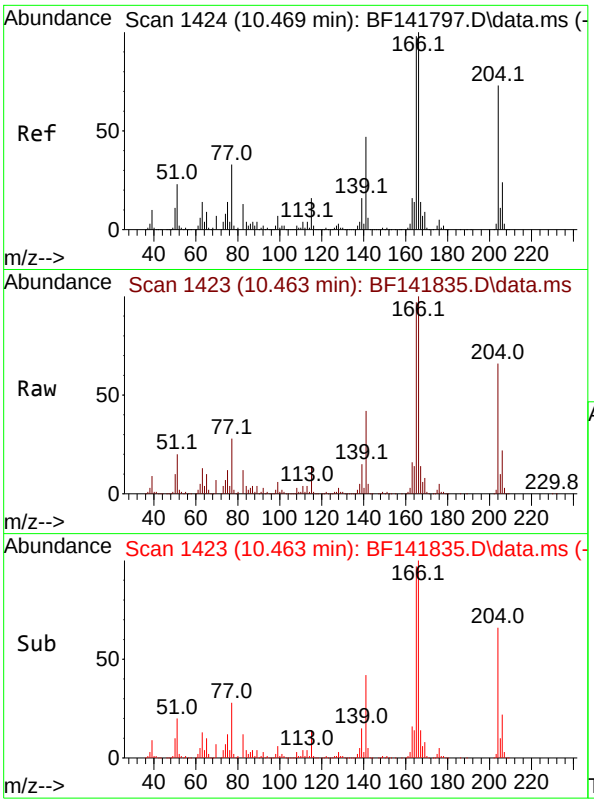


#60
Diethylphthalate
Concen: 39.332 ng
RT: 10.339 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:149 Resp: 1340314

Ion	Ratio	Lower	Upper
149	100		
177	22.7	18.3	27.5
150	12.6	10.3	15.5



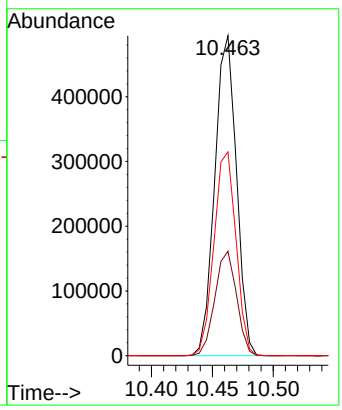


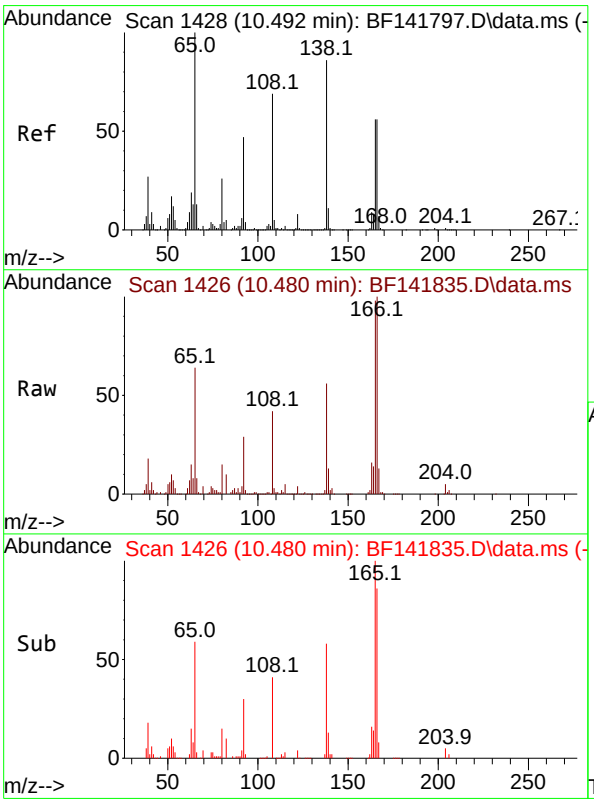
#61
4-Chlorophenyl-phenylether
Concen: 39.043 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 615259

Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.2	39.4
141	63.7	51.7	77.5

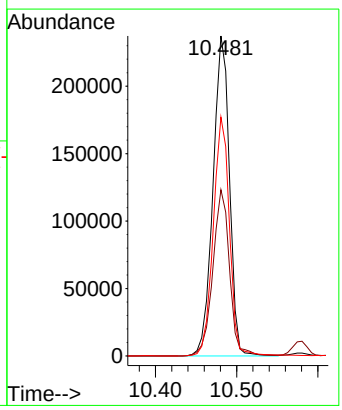


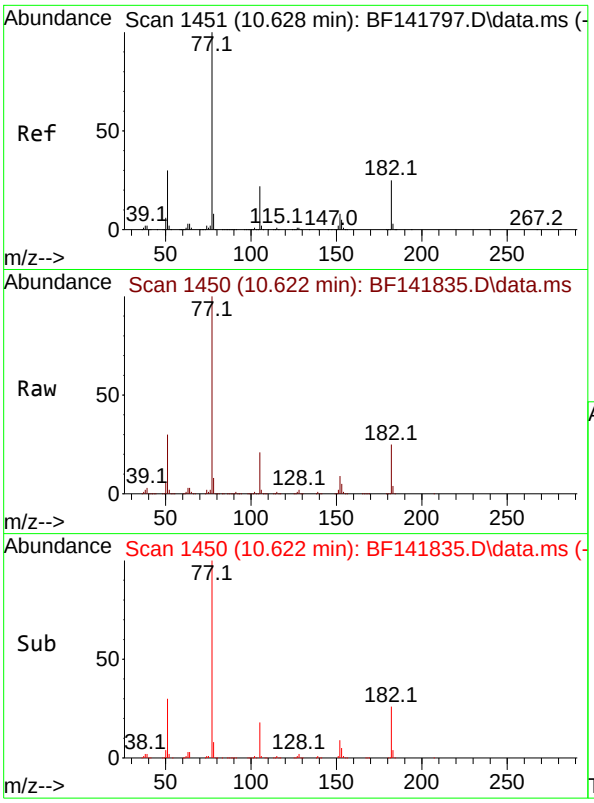


#62
4-Nitroaniline
Concen: 57.675 ng
RT: 10.480 min Scan# 1426
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:138 Resp: 334806

Ion	Ratio	Lower	Upper
138	100		
92	52.0	34.9	74.9
108	74.6	59.6	99.6



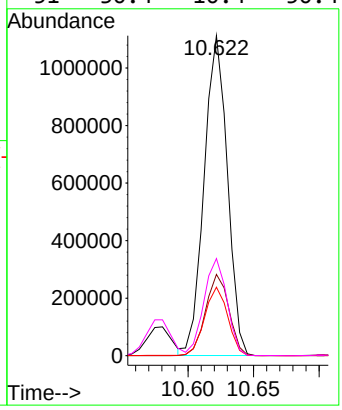


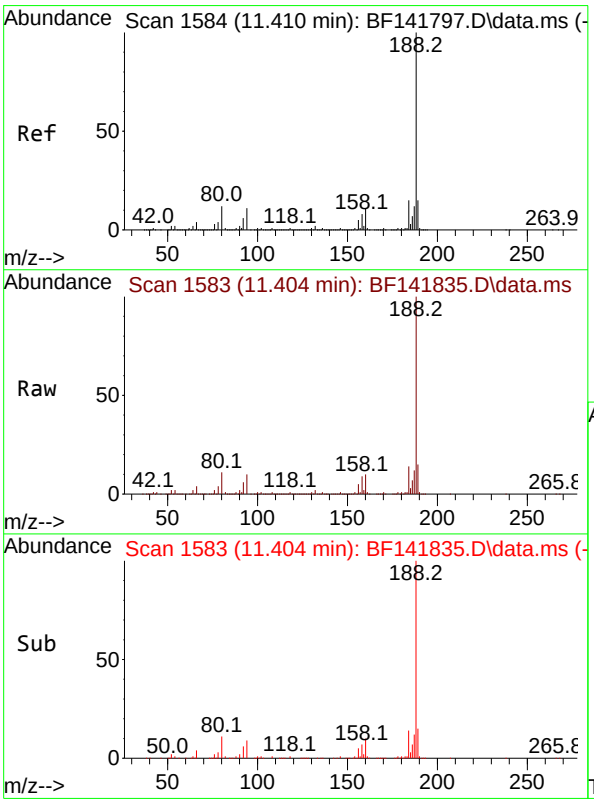
#63
Azobenzene
Concen: 38.283 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 1373599

Ion	Ratio	Lower	Upper
77	100		
182	25.4	4.2	44.2
105	21.4	1.5	41.5
51	30.4	10.4	50.4

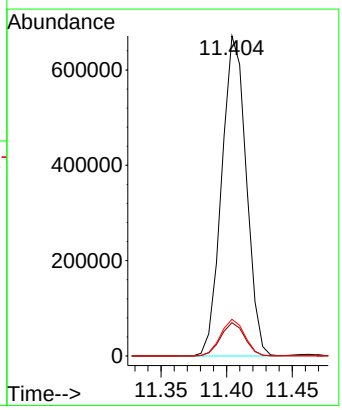


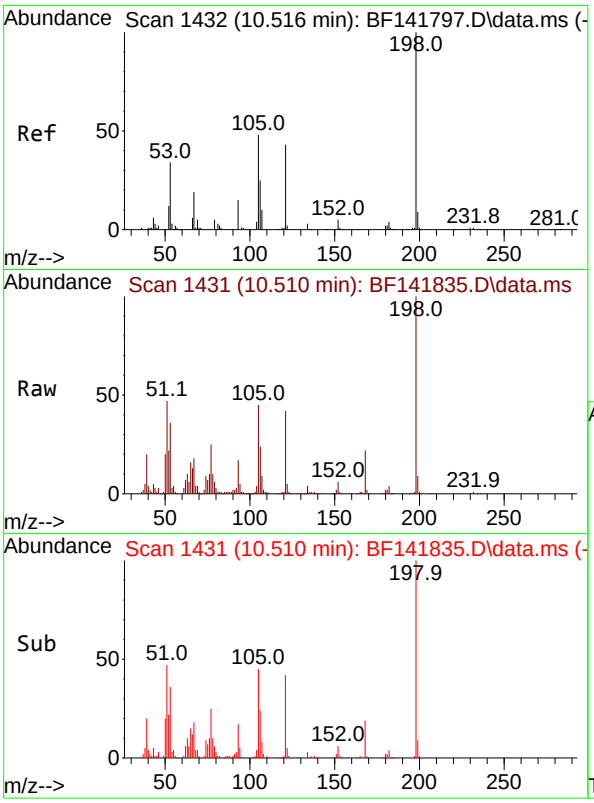


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:188 Resp: 873644

Ion	Ratio	Lower	Upper
188	100		
94	10.4	8.9	13.3
80	11.4	9.7	14.5



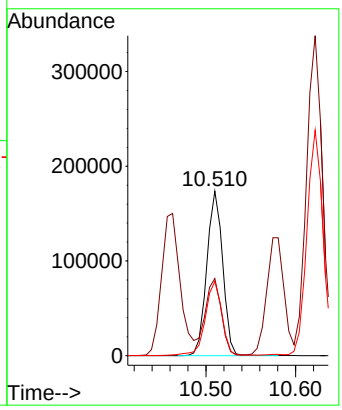


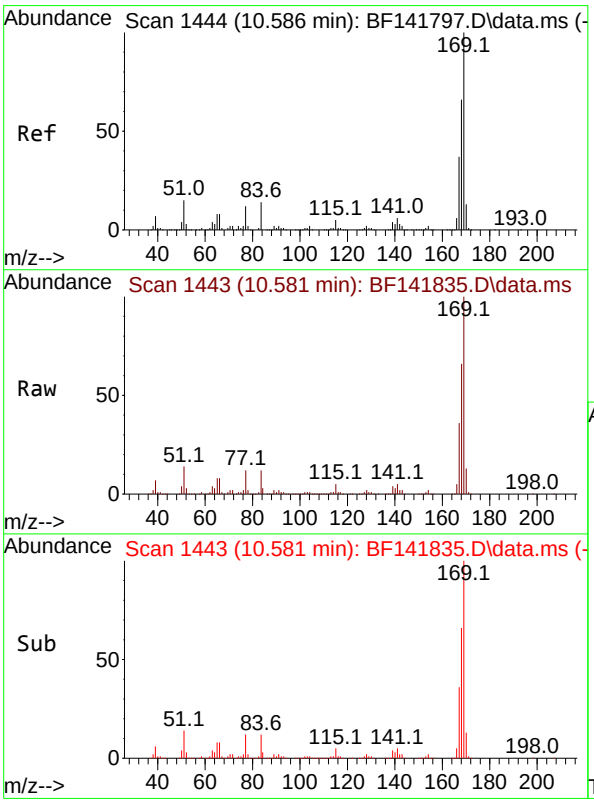
#65
4,6-Dinitro-2-methylphenol
Concen: 51.268 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 213658

Ion	Ratio	Lower	Upper
198	100		
51	46.9	32.1	72.1
105	45.1	28.5	68.5

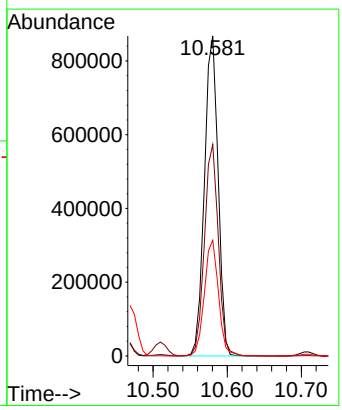


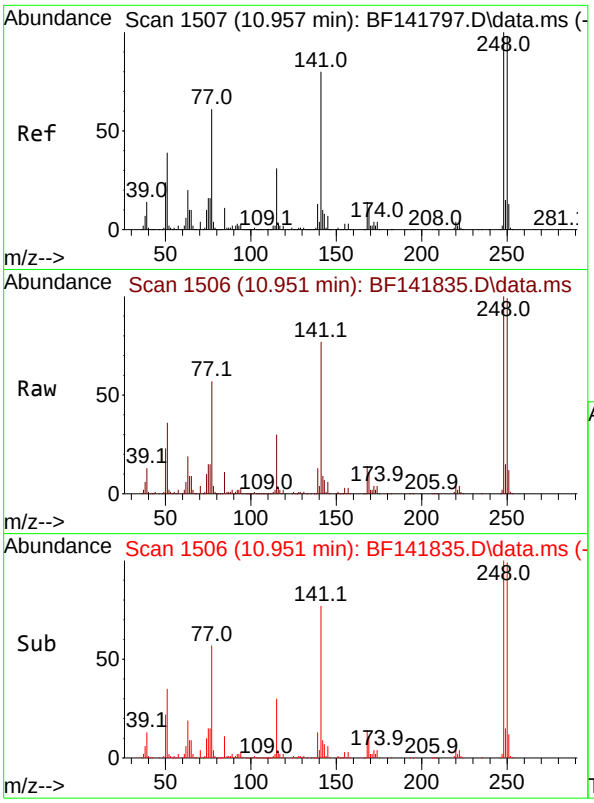


#66
n-Nitrosodiphenylamine
Concen: 38.849 ng
RT: 10.581 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:169 Resp: 1114485

Ion	Ratio	Lower	Upper
169	100		
168	66.1	53.0	79.6
167	36.2	29.3	43.9



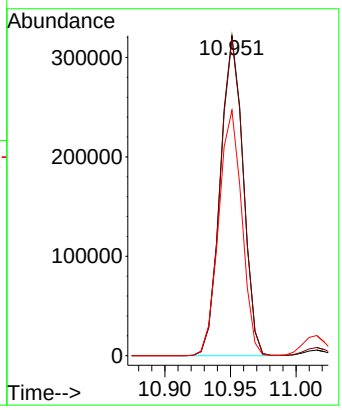


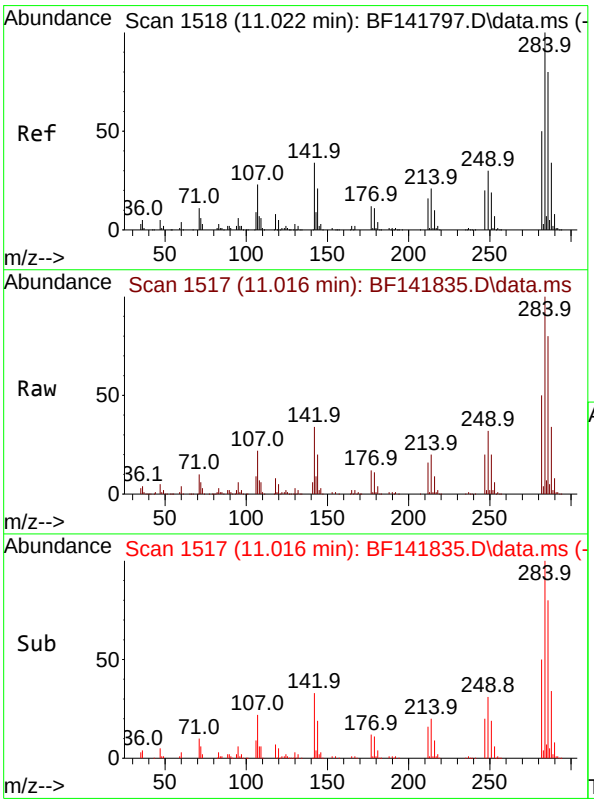
#67
4-Bromophenyl-phenylether
Concen: 38.195 ng
RT: 10.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 389763

Ion	Ratio	Lower	Upper
248	100		
250	99.0	78.1	117.1
141	76.7	64.3	96.5

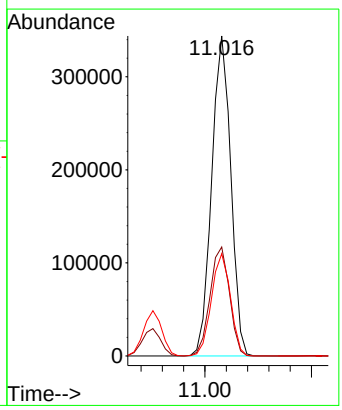


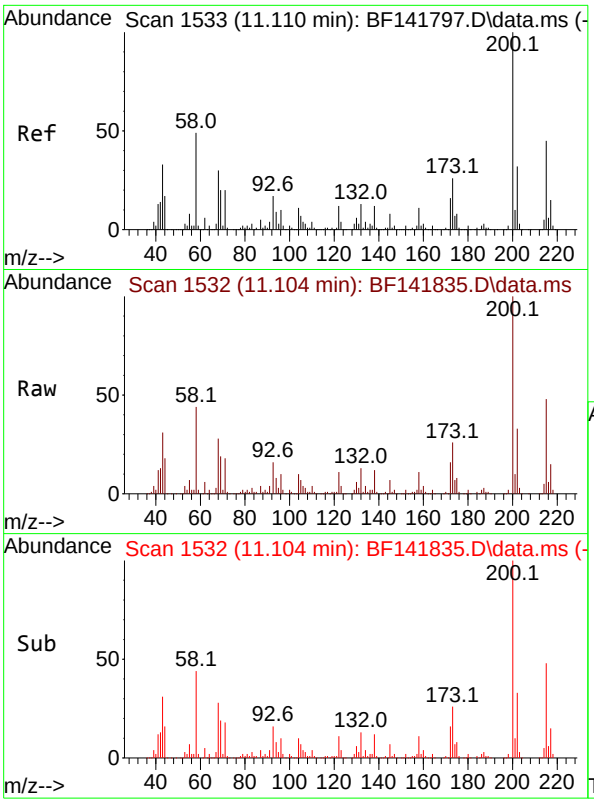


#68
Hexachlorobenzene
Concen: 39.651 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:284 Resp: 427268

Ion	Ratio	Lower	Upper
284	100		
142	34.1	28.2	42.2
249	31.9	25.5	38.3



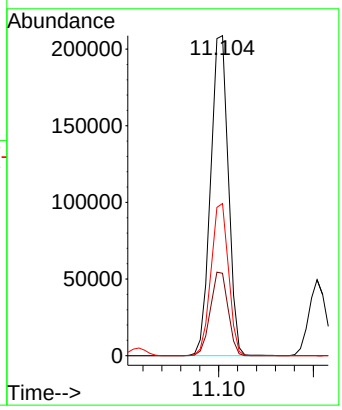


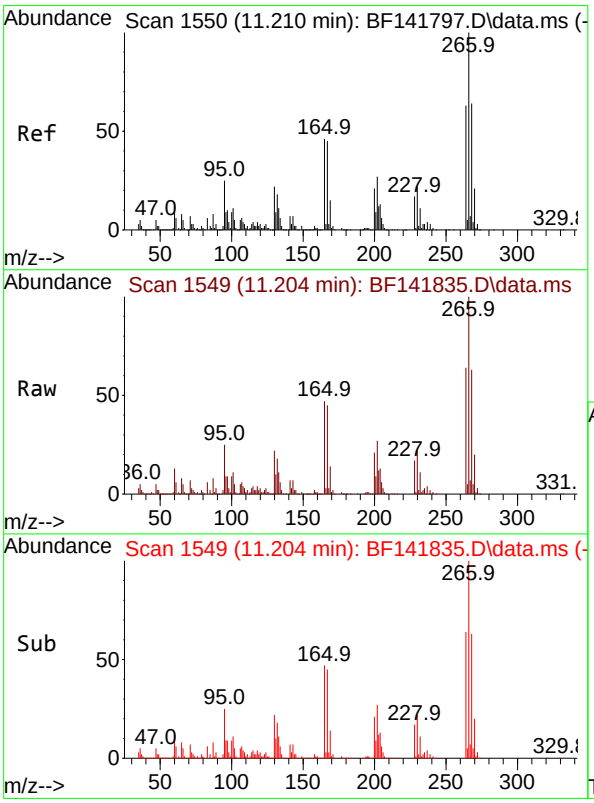
#69
Atrazine
Concen: 34.483 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 272033

Ion	Ratio	Lower	Upper
200	100		
173	25.8	5.6	45.6
215	47.6	25.3	65.3

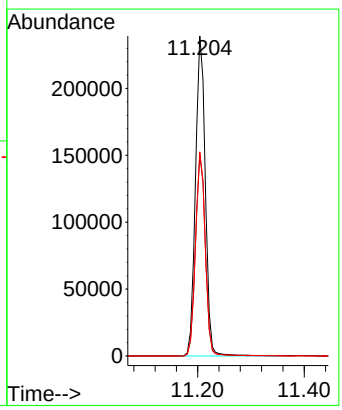


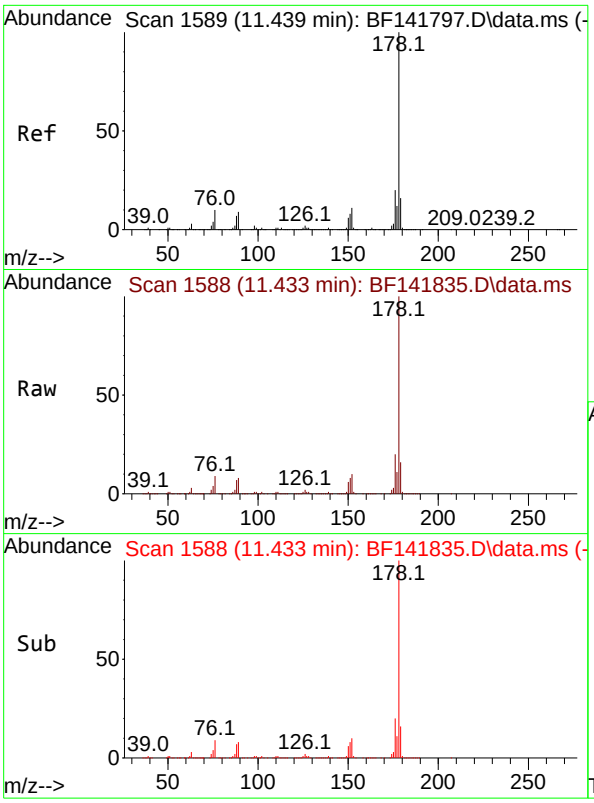


#70
Pentachlorophenol
Concen: 45.085 ng
RT: 11.204 min Scan# 1549
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:266 Resp: 308128

Ion	Ratio	Lower	Upper
266	100		
268	63.0	50.9	76.3
264	63.8	50.2	75.4



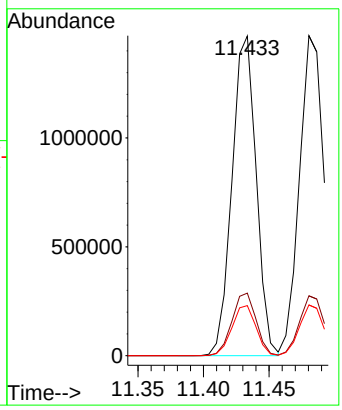


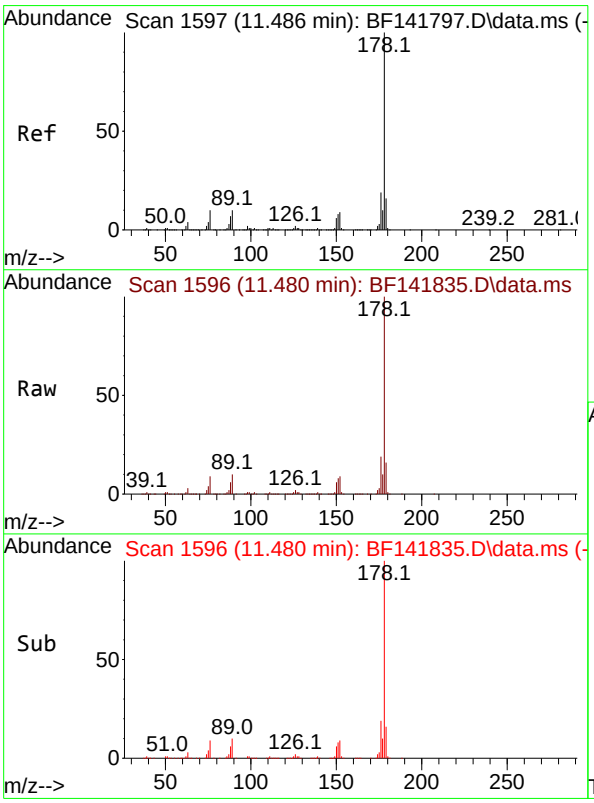
#71
Phenanthrene
Concen: 40.455 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 1890507

Ion	Ratio	Lower	Upper
178	100		
176	19.6	16.0	24.0
179	15.7	12.6	19.0

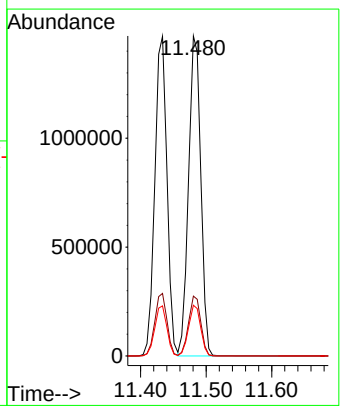


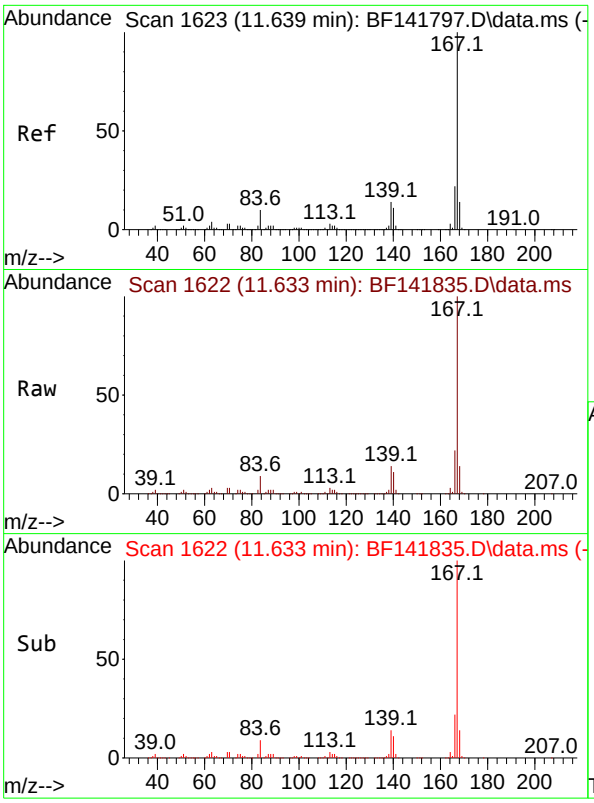


#72
Anthracene
Concen: 40.598 ng
RT: 11.480 min Scan# 1596
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:178 Resp: 1901419

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.0
179	15.8	12.8	19.2



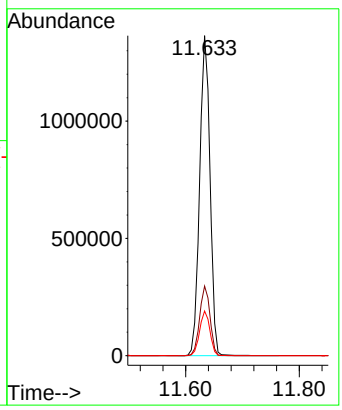


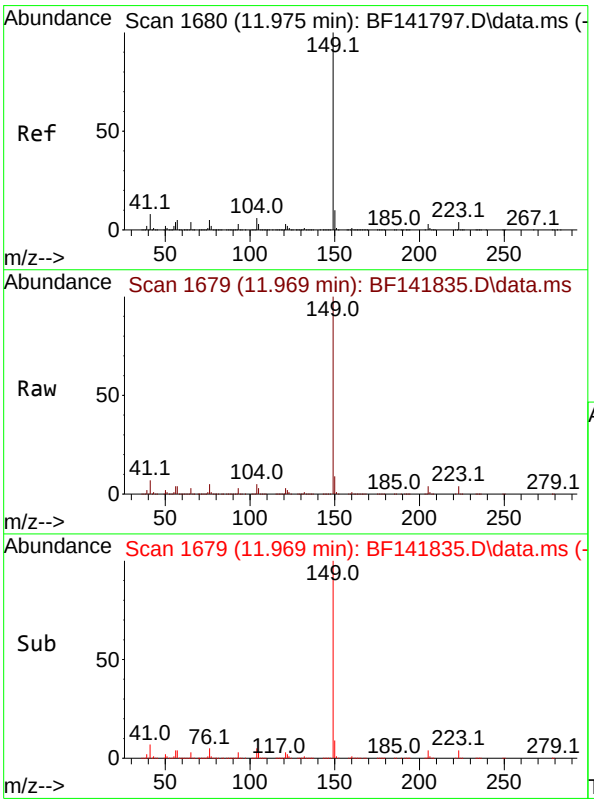
#73
Carbazole
Concen: 41.829 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 1730017

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.5	26.3
139	14.0	11.3	16.9

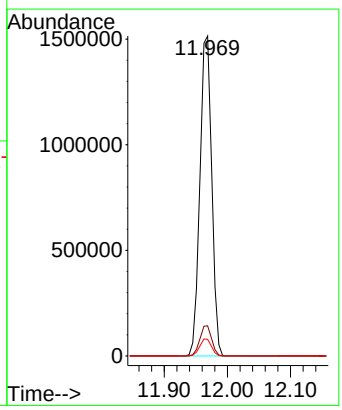


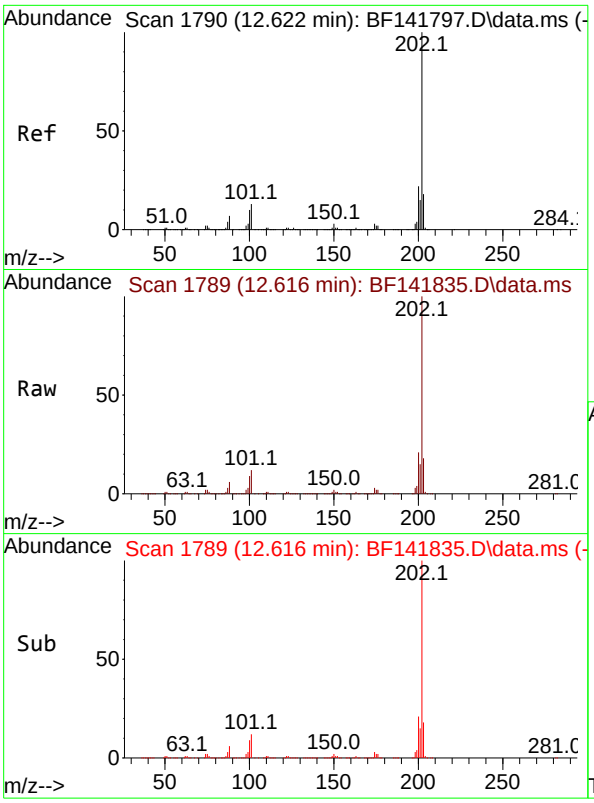


#74
Di-n-butylphthalate
Concen: 37.694 ng
RT: 11.969 min Scan# 1679
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:149 Resp: 1976148

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.7	11.5
104	5.2	4.4	6.6



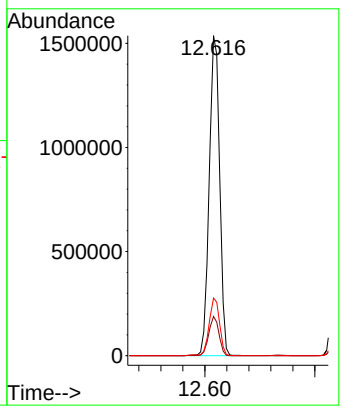


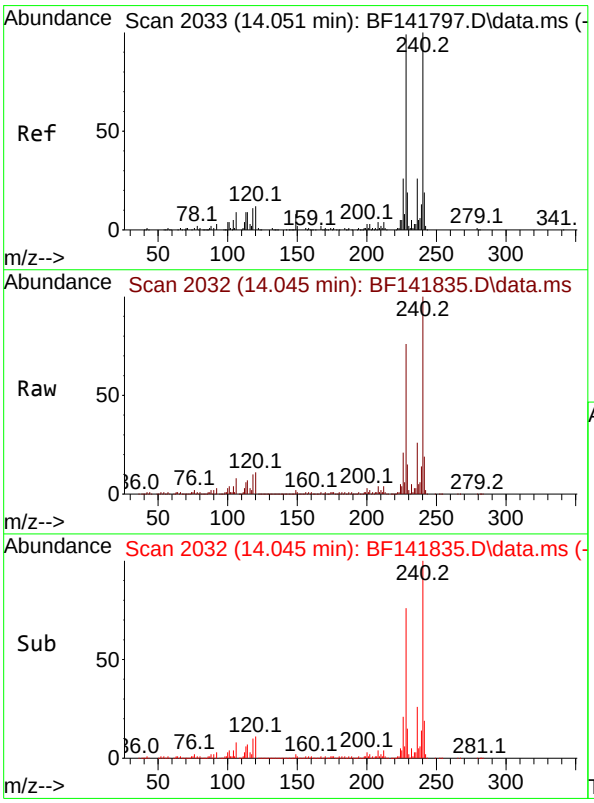
#75
Fluoranthene
Concen: 42.219 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 2021622

Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	32.8
203	18.0	0.0	38.0

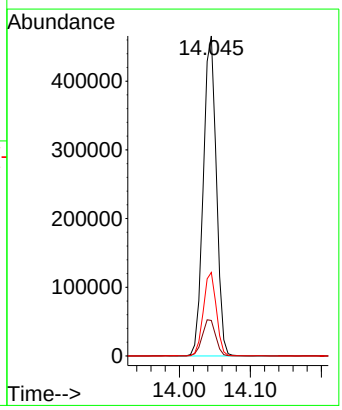


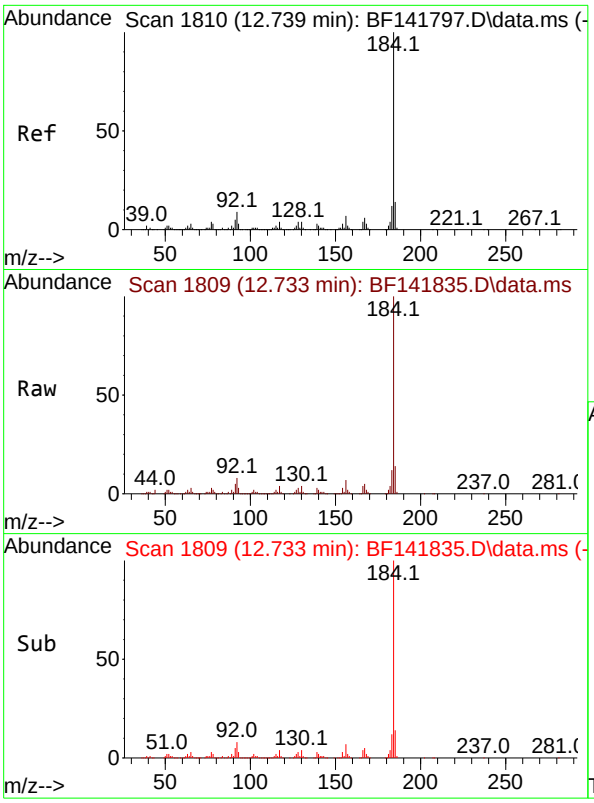


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:240 Resp: 595765

Ion	Ratio	Lower	Upper
240	100		
120	11.1	9.7	14.5
236	26.1	21.0	31.4



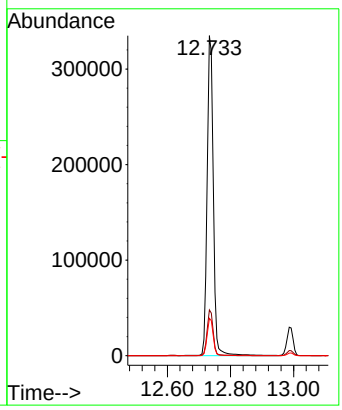


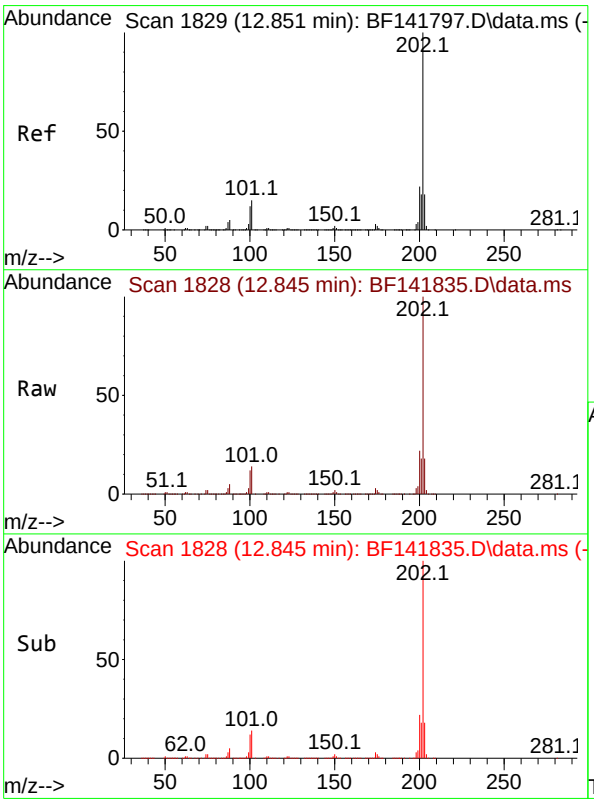
#77
Benzidine
Concen: 60.734 ng
RT: 12.733 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 455419

Ion	Ratio	Lower	Upper
184	100		
185	14.3	11.6	17.4
183	11.7	9.4	14.0

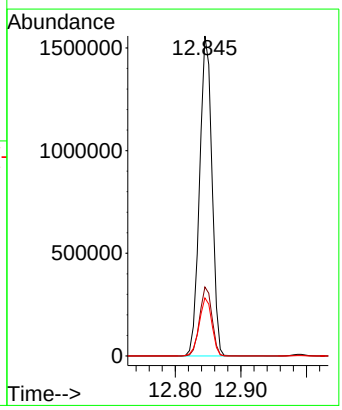


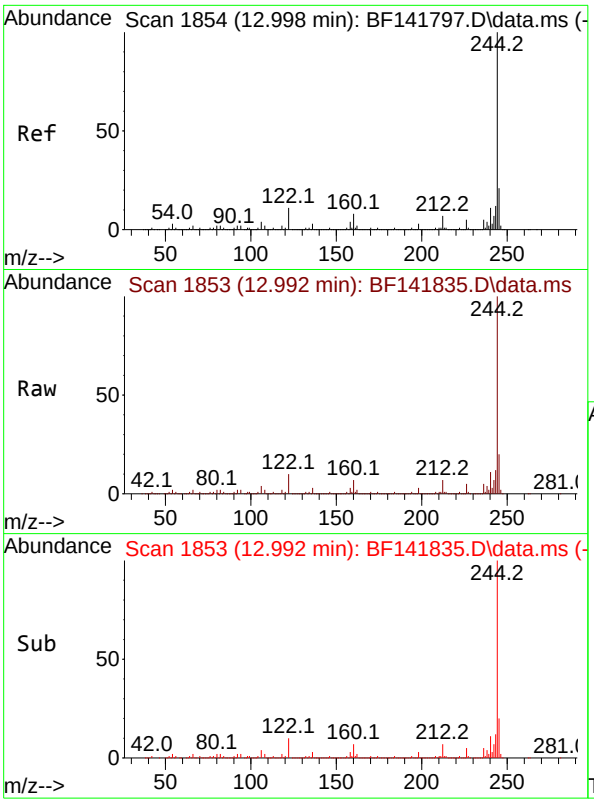


#78
Pyrene
Concen: 39.773 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:202 Resp: 2051898

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.4	26.0
203	18.2	14.6	22.0



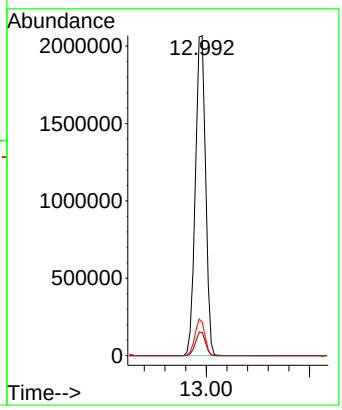


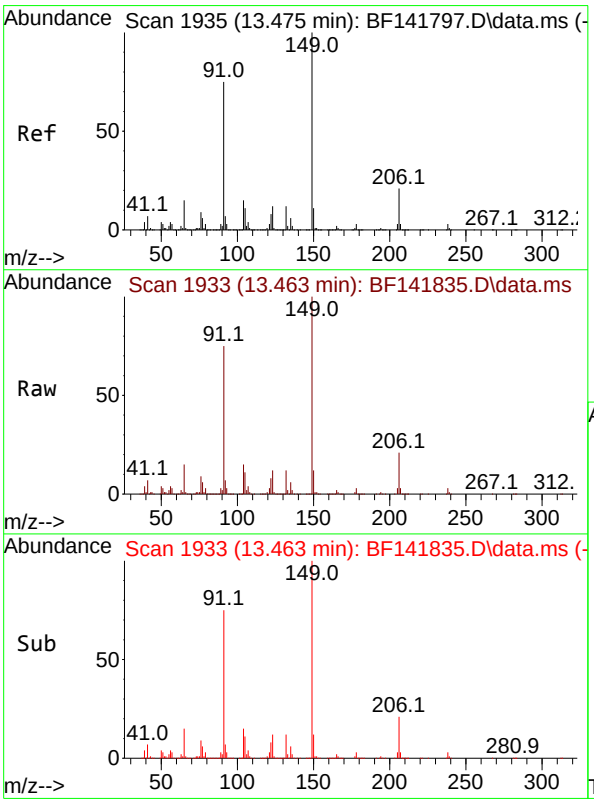
#79
Terphenyl-d14
Concen: 76.987 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 2834884

Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.0	9.0
122	10.5	9.0	13.6

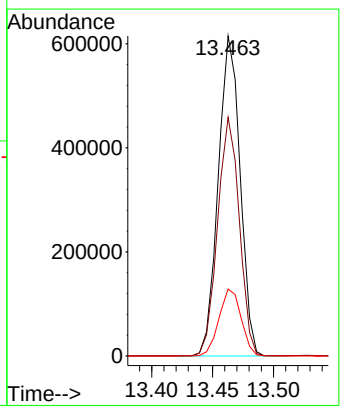


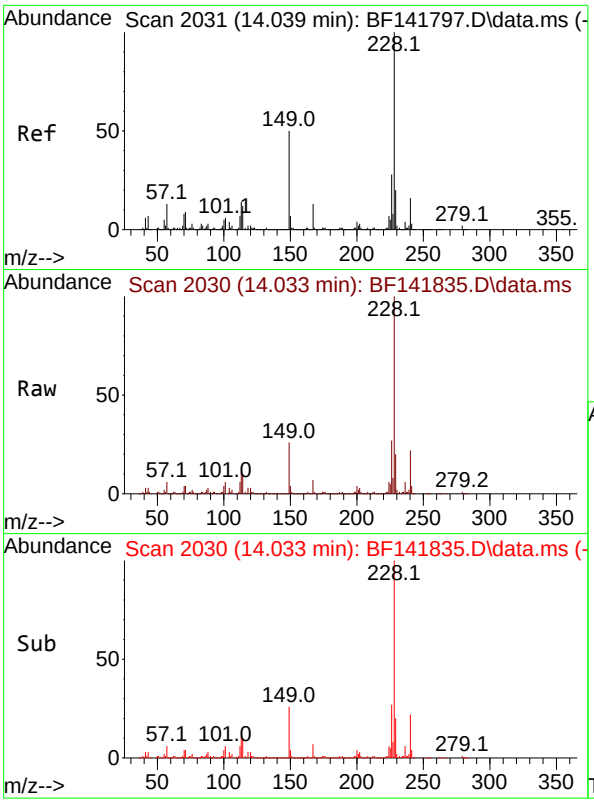


#80
Butylbenzylphthalate
Concen: 41.053 ng
RT: 13.463 min Scan# 1933
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:149 Resp: 769482

Ion	Ratio	Lower	Upper
149	100		
91	74.5	60.1	90.1
206	20.9	16.8	25.2



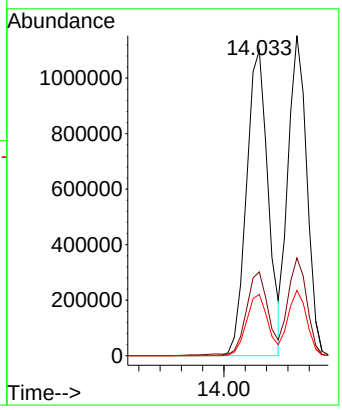


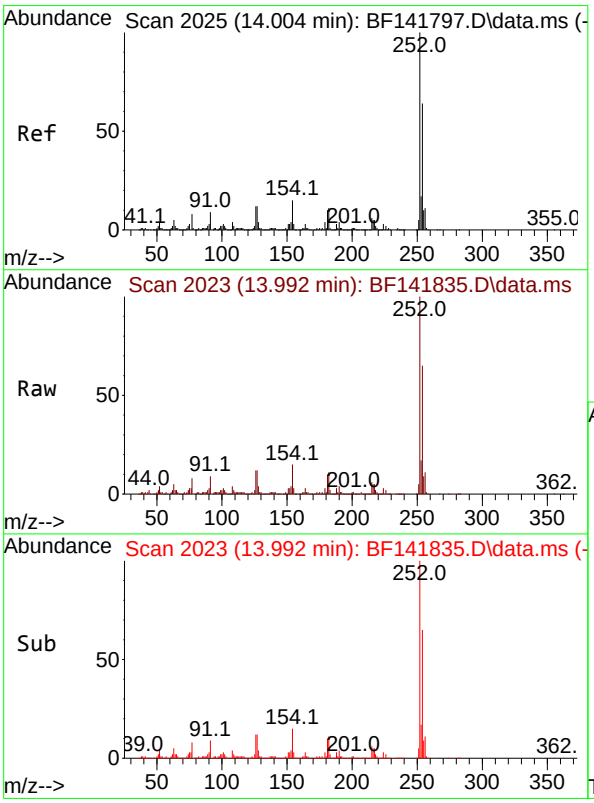
#81
Benzo(a)anthracene
Concen: 39.619 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 1559065

Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.1	33.1
229	20.1	16.1	24.1

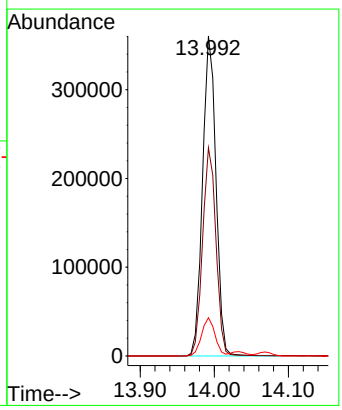


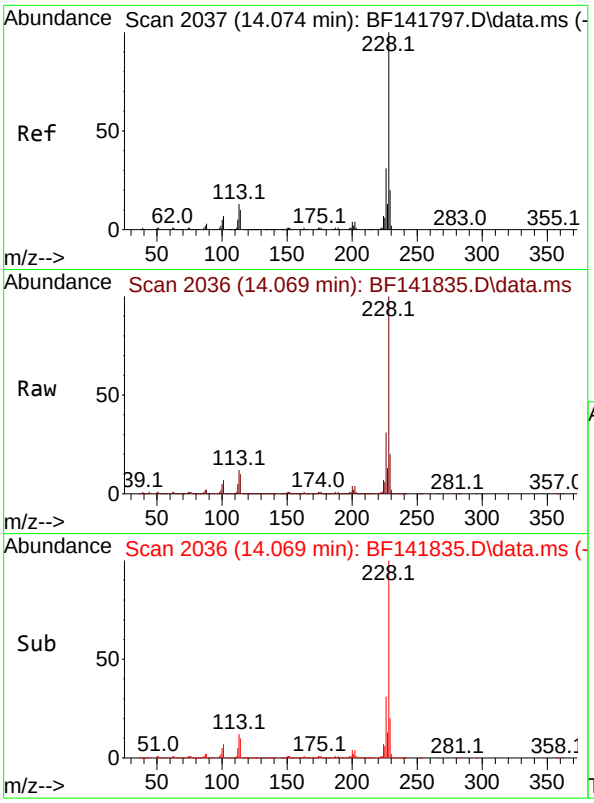


#82
3,3'-Dichlorobenzidine
Concen: 40.293 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:252 Resp: 454914

Ion	Ratio	Lower	Upper
252	100		
254	65.0	51.4	77.0
126	12.0	9.8	14.6



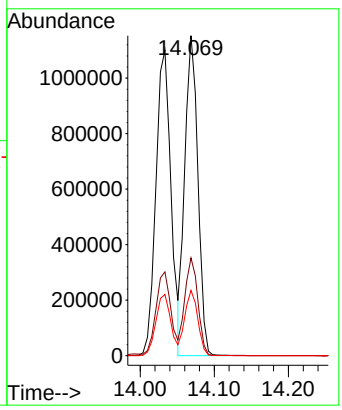


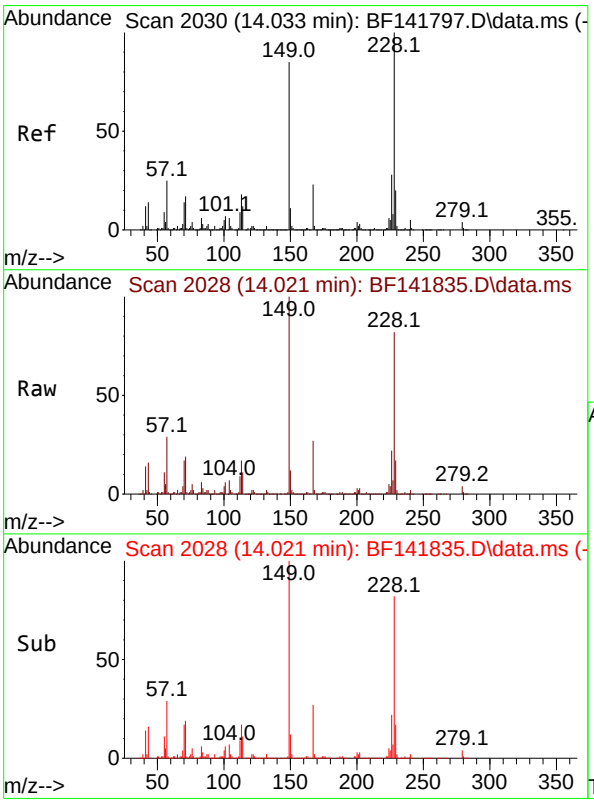
#83
Chrysene
Concen: 39.076 ng
RT: 14.069 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 1417476

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	20.4	16.1	24.1

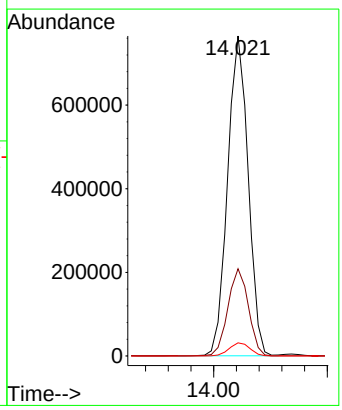


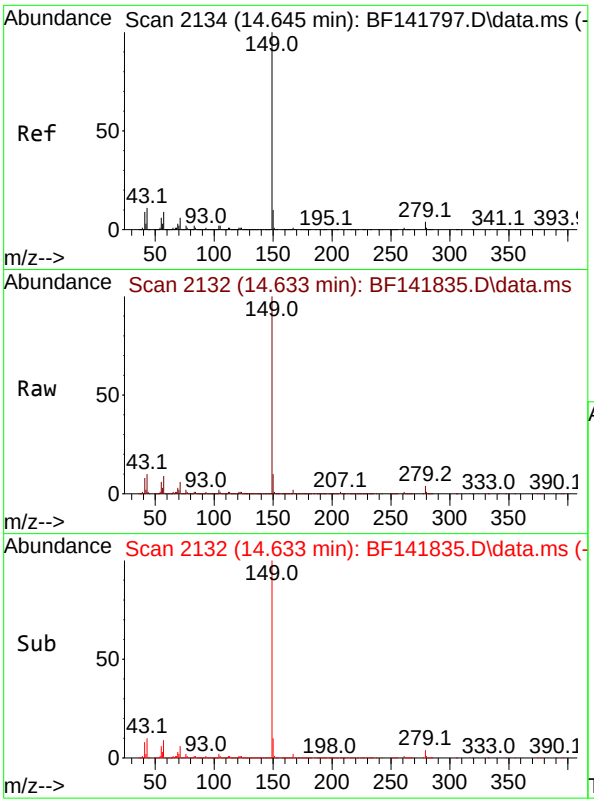


#84
Bis(2-ethylhexyl)phthalate
Concen: 41.198 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:149 Resp: 961512

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.2	31.8
279	4.1	3.3	4.9



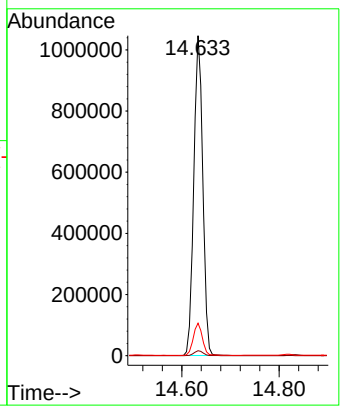


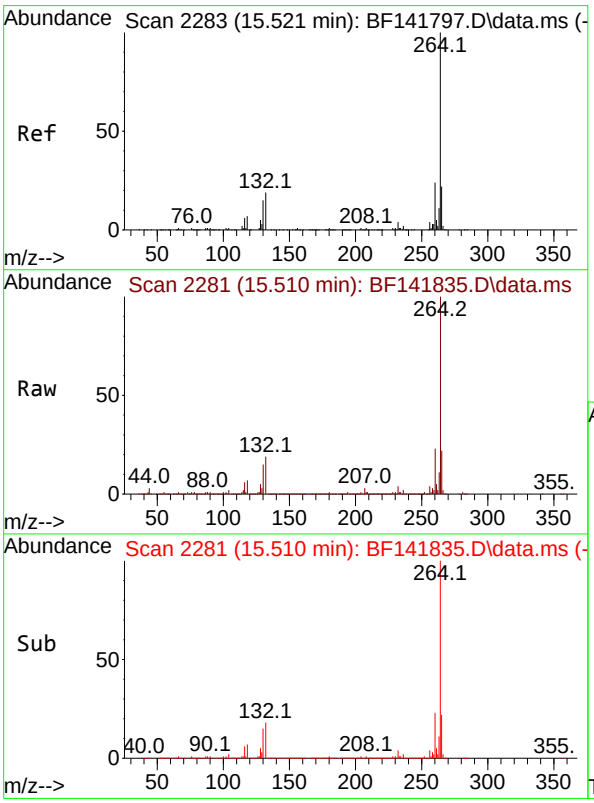
#85
Di-n-octyl phthalate
Concen: 38.592 ng
RT: 14.633 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 1348427

Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.2	1.8
43	10.1	8.6	12.8

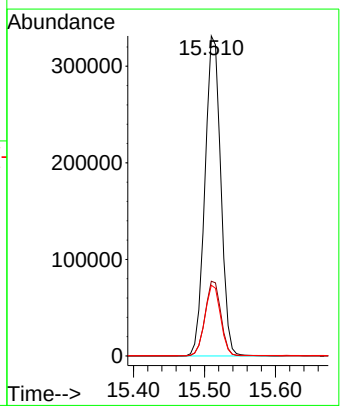


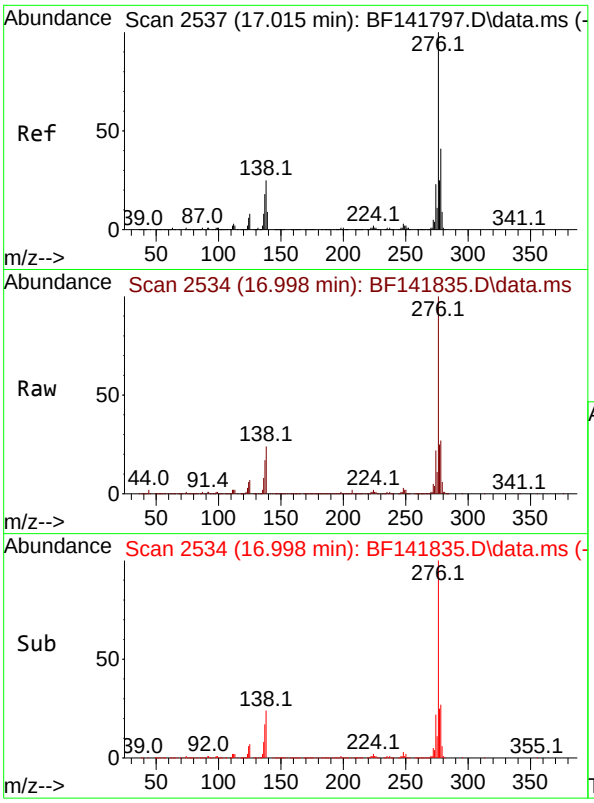


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:264 Resp: 513355

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.9	28.3
265	22.1	17.4	26.0



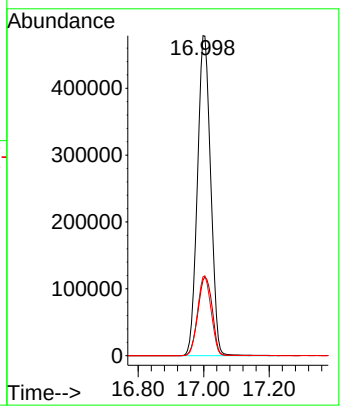


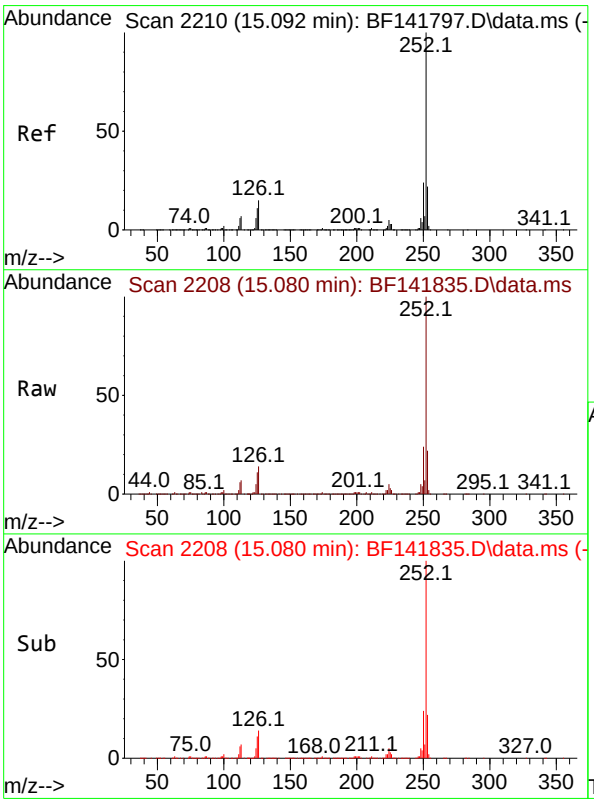
#87
Indeno(1,2,3-cd)pyrene
Concen: 41.147 ng
RT: 16.998 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 1345046

Ion	Ratio	Lower	Upper
276	100		
138	26.6	22.5	33.7
277	25.4	20.3	30.5

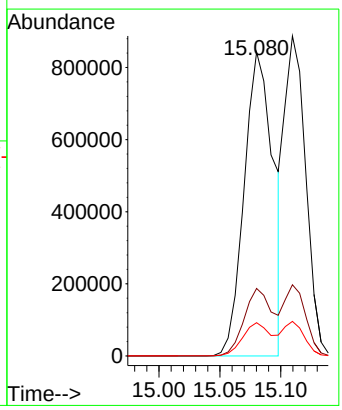


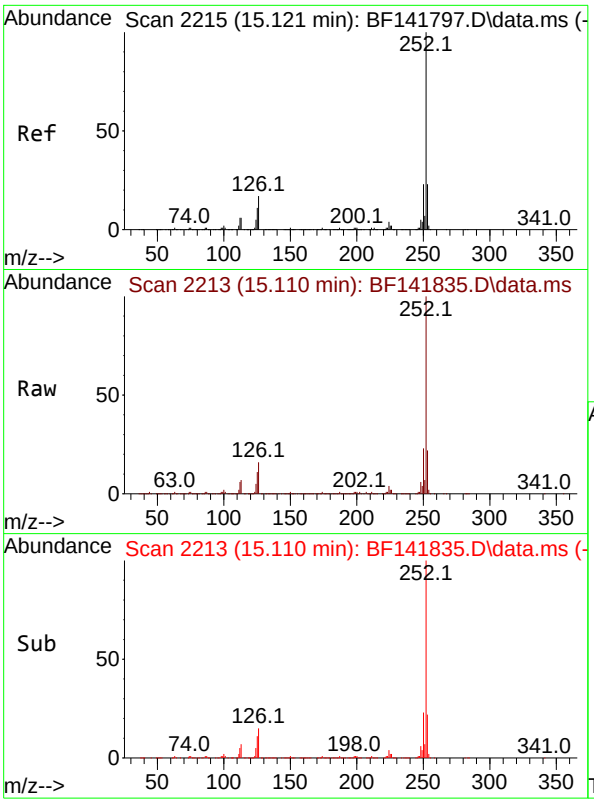


#88
Benzo(b)fluoranthene
Concen: 40.178 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:252 Resp: 1404956

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	11.0	8.6	13.0



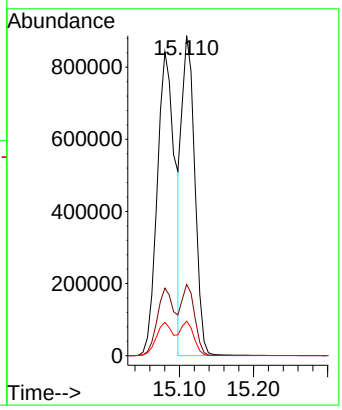


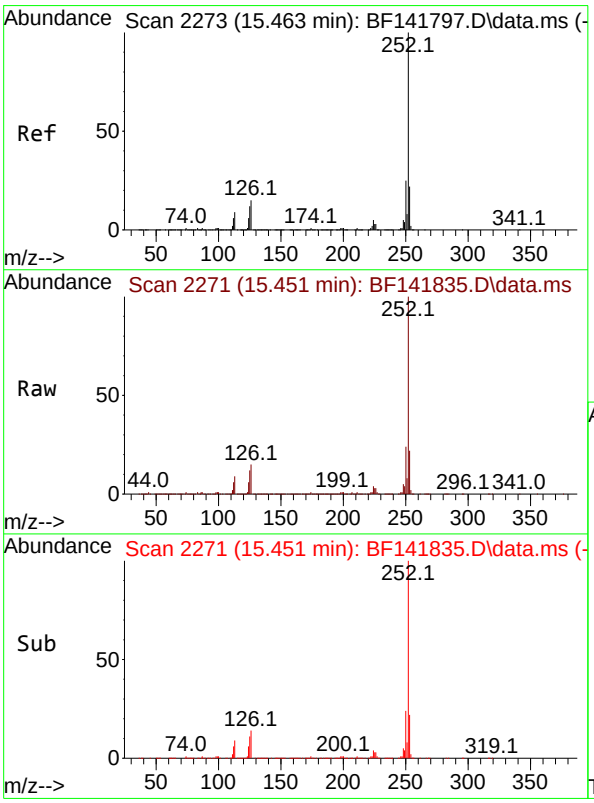
#89
Benzo(k)fluoranthene
Concen: 36.524 ng
RT: 15.110 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 1085559

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	10.8	8.8	13.2

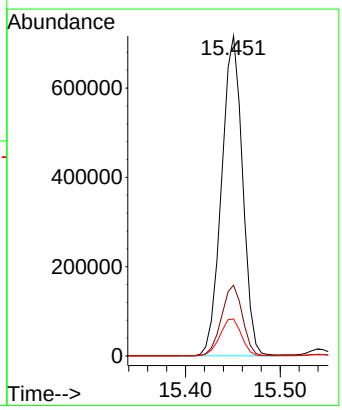


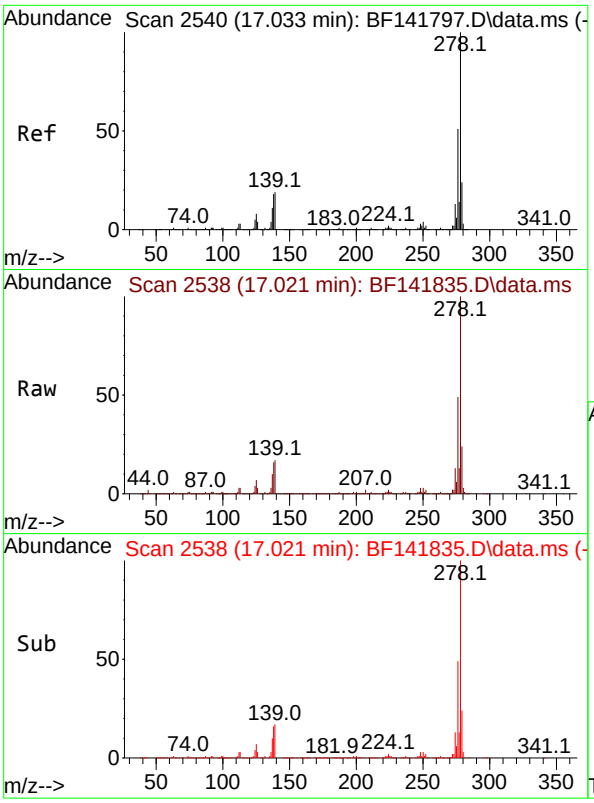


#90
Benzo(a)pyrene
Concen: 39.322 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:252 Resp: 1102749

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	11.5	9.4	14.2



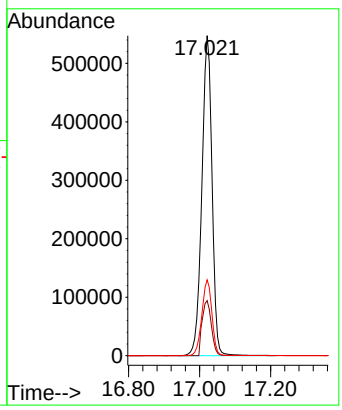


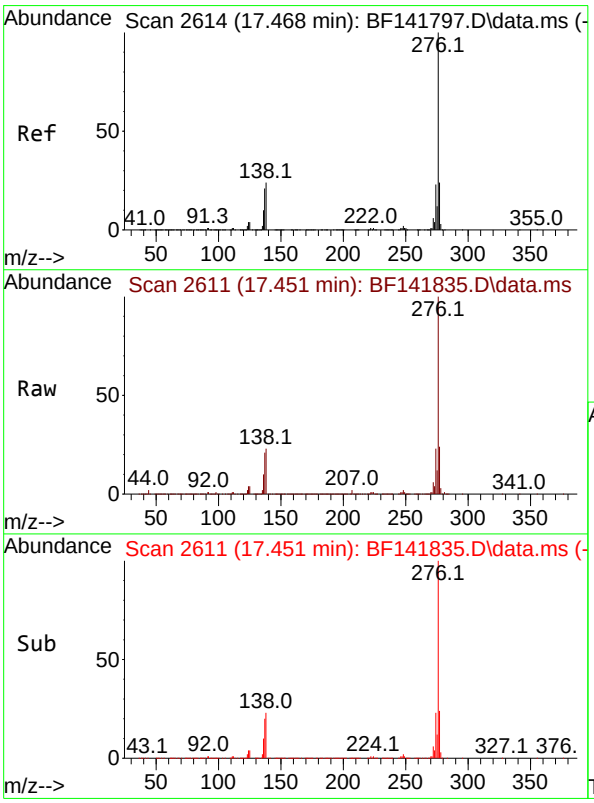
#91
Dibenzo(a,h)anthracene
Concen: 41.050 ng
RT: 17.021 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 1095326

Ion	Ratio	Lower	Upper
278	100		
139	17.2	14.9	22.3
279	23.7	19.3	28.9

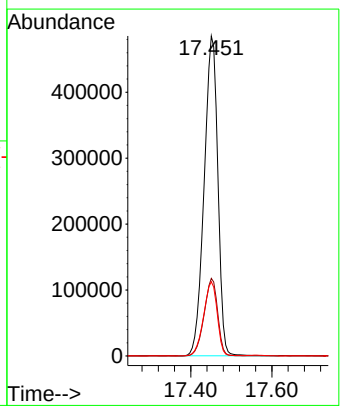




#92
Benzo(g,h,i)perylene
Concen: 41.520 ng
RT: 17.451 min Scan# 2611
Delta R.T. -0.018 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:276 Resp: 1134958

Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.4	29.0
138	23.2	19.3	28.9



Sample Results: **BF141835.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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	86	0.00
2		1,4-Dioxane	0.568	0.571	-0.5	82	0.00
3		Pyridine	1.414	1.429	-1.1	83	0.00
4		n-Nitrosodimethylamine	0.680	0.693	-1.9	81	-0.01
5	S	2-Fluorophenol	1.252	1.263	-0.9	84	0.00
6		Aniline	1.695	1.679	0.9	79	0.00
7	S	Phenol-d6	1.630	1.613	1.0	82	0.00
8		2-Chlorophenol	1.355	1.354	0.1	82	0.00
9		Benzaldehyde	0.948	0.834	12.0	73	0.00
10	C	Phenol	1.742	1.734	0.5	82	0.00
11		bis(2-Chloroethyl)ether	1.328	1.232	7.2	79	0.00
12		1,3-Dichlorobenzene	1.451	1.431	1.4	81	0.00
13	C	1,4-Dichlorobenzene	1.462	1.450	0.8	82	0.00
14		1,2-Dichlorobenzene	1.365	1.348	1.2	82	0.00
15		Benzyl Alcohol	1.303	1.272	2.4	80	0.00
16		2,2'-oxybis(1-Chloropropane	2.016	1.771	12.2	73	0.00
17		2-Methylphenol	1.118	1.094	2.1	80	0.00
18		Hexachloroethane	0.547	0.522	4.6	77	0.00
19	P	n-Nitroso-di-n-propylamine	1.072	0.955	10.9	75	0.00
20		3+4-Methylphenols	1.392	1.384	0.6	82	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	82	0.00
22		Acetophenone	0.487	0.480	1.4	79	0.00
23	S	Nitrobenzene-d5	0.313	0.371	-18.5	89	0.00
24		Nitrobenzene	0.335	0.375	-11.9	84	0.00
25		Isophorone	0.672	0.633	5.8	76	0.00
26	C	2-Nitrophenol	0.127	0.179	-40.9#	102	0.00
27		2,4-Dimethylphenol	0.247	0.248	-0.4	80	0.00
28		bis(2-Chloroethoxy)methane	0.429	0.395	7.9	74	0.00
29	C	2,4-Dichlorophenol	0.285	0.291	-2.1	80	0.00
30		1,2,4-Trichlorobenzene	0.312	0.312	0.0	80	0.00
31		Naphthalene	1.028	1.017	1.1	80	0.00
32		Benzoic acid	0.179	0.248	-38.5#	106	-0.01
33		4-Chloroaniline	0.377	0.378	-0.3	81	0.00
34	C	Hexachlorobutadiene	0.194	0.187	3.6	77	0.00
35		Caprolactam	0.088	0.098	-11.4	88	0.00
36	C	4-Chloro-3-methylphenol	0.317	0.324	-2.2	81	0.00
37		2-Methylnaphthalene	0.674	0.657	2.5	79	0.00
38		1-Methylnaphthalene	0.647	0.645	0.3	81	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	81	0.00
40		1,2,4,5-Tetrachlorobenzene	0.578	0.577	0.2	80	0.00
41	P	Hexachlorocyclopentadiene	0.241	0.235	2.5	74	0.00
42	S	2,4,6-Tribromophenol	0.188	0.210	-11.7	85	0.00
43	C	2,4,6-Trichlorophenol	0.373	0.395	-5.9	81	0.00
44		2,4,5-Trichlorophenol	0.369	0.412	-11.7	87	0.00
45	S	2-Fluorobiphenyl	1.247	1.230	1.4	81	0.00
46		1,1'-Biphenyl	1.522	1.505	1.1	80	0.00
47		2-Chloronaphthalene	1.124	1.144	-1.8	82	0.00

Sample Results: **BF141835.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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	0.260	0.374	-43.8#	101	0.00
49		Acenaphthylene	1.685	1.726	-2.4	82	0.00
50		Dimethylphthalate	1.339	1.326	1.0	79	-0.01
51		2,6-Dinitrotoluene	0.226	0.297	-31.4#	94	0.00
52	C	Acenaphthene	1.137	1.188	-4.5	84	0.00
53		3-Nitroaniline	0.241	0.328	-36.1#	96	0.00
54	P	2,4-Dinitrophenol	0.089	0.149	-67.4#	131	0.00
55		Dibenzofuran	1.654	1.670	-1.0	82	0.00
56	P	4-Nitrophenol	0.198	0.283	-42.9#	101	0.00
57		2,4-Dinitrotoluene	0.269	0.392	-45.7#	102	0.00
58		Fluorene	1.239	1.253	-1.1	83	0.00
59		2,3,4,6-Tetrachlorophenol	0.321	0.351	-9.3	84	0.00
60		Diethylphthalate	1.343	1.320	1.7	77	-0.01
61		4-Chlorophenyl-phenylether	0.621	0.606	2.4	79	0.00
62		4-Nitroaniline	0.229	0.330	-44.1#	100	-0.01
63		Azobenzene	1.414	1.353	4.3	76	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	85	0.00
65		4,6-Dinitro-2-methylphenol	0.081	0.122	-50.6#	119	0.00
66	c	n-Nitrosodiphenylamine	0.657	0.638	2.9	81	0.00
67		4-Bromophenyl-phenylether	0.234	0.223	4.7	79	0.00
68		Hexachlorobenzene	0.247	0.245	0.8	82	0.00
69		Atrazine	0.181	0.156	13.8	74	0.00
70	C	Pentachlorophenol	0.156	0.176	-12.8	89	0.00
71		Phenanthrene	1.070	1.082	-1.1	85	0.00
72		Anthracene	1.072	1.088	-1.5	86	0.00
73		Carbazole	0.947	0.990	-4.5	88	0.00
74		Di-n-butylphthalate	1.200	1.131	5.7	79	0.00
75	C	Fluoranthene	1.096	1.157	-5.6	90	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	95	0.00
77		Benzidine	0.252	0.382	-51.6#	139	0.00
78		Pyrene	1.732	1.722	0.6	91	0.00
79	S	Terphenyl-d14	1.236	1.190	3.7	89	0.00
80		Butylbenzylphthalate	0.629	0.646	-2.7	92	-0.01
81		Benzo(a)anthracene	1.321	1.308	1.0	94	0.00
82		3,3'-Dichlorobenzidine	0.379	0.382	-0.8	92	-0.01
83		Chrysene	1.218	1.190	2.3	89	0.00
84		Bis(2-ethylhexyl)phthalate	0.783	0.807	-3.1	92	-0.01
85	c	Di-n-octyl phthalate	1.173	1.132	3.5	82	-0.01
86	I	Perylene-d12	1.000	1.000	0.0	91	-0.01
87		Indeno(1,2,3-cd)pyrene	1.274	1.310	-2.8	88	-0.02
88		Benzo(b)fluoranthene	1.362	1.368	-0.4	95	-0.01
89		Benzo(k)fluoranthene	1.158	1.057	8.7	79	-0.01
90	C	Benzo(a)pyrene	1.093	1.074	1.7	87	-0.01
91		Dibenzo(a,h)anthracene	1.040	1.067	-2.6	87	-0.01
92		Benzo(g,h,i)perylene	1.065	1.105	-3.8	89	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Sample Results: **BF141835.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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	86	0.00
2		1,4-Dioxane	40.000	40.225	-0.6	82	0.00
3		Pyridine	40.000	40.439	-1.1	83	0.00
4		n-Nitrosodimethylamine	40.000	40.740	-1.9	81	-0.01
5	S	2-Fluorophenol	80.000	80.693	-0.9	84	0.00
6		Aniline	40.000	39.633	0.9	79	0.00
7	S	Phenol-d6	80.000	79.155	1.1	82	0.00
8		2-Chlorophenol	40.000	39.983	0.0	82	0.00
9		Benzaldehyde	40.000	35.170	12.1	73	0.00
10	C	Phenol	40.000	39.824	0.4	82	0.00
11		bis(2-Chloroethyl)ether	40.000	37.114	7.2	79	0.00
12		1,3-Dichlorobenzene	40.000	39.458	1.4	81	0.00
13	C	1,4-Dichlorobenzene	40.000	39.687	0.8	82	0.00
14		1,2-Dichlorobenzene	40.000	39.499	1.3	82	0.00
15		Benzyl Alcohol	40.000	39.062	2.3	80	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	35.131	12.2	73	0.00
17		2-Methylphenol	40.000	39.120	2.2	80	0.00
18		Hexachloroethane	40.000	38.167	4.6	77	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	35.637	10.9	75	0.00
20		3+4-Methylphenols	40.000	39.753	0.6	82	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	82	0.00
22		Acetophenone	40.000	39.406	1.5	79	0.00
23	S	Nitrobenzene-d5	80.000	94.823	-18.5	89	0.00
24		Nitrobenzene	40.000	44.751	-11.9	84	0.00
25		Isophorone	40.000	37.638	5.9	76	0.00
26	C	2-Nitrophenol	40.000	47.760	-19.4	102	0.00
27		2,4-Dimethylphenol	40.000	40.220	-0.5	80	0.00
28		bis(2-Chloroethoxy)methane	40.000	36.892	7.8	74	0.00
29	C	2,4-Dichlorophenol	40.000	40.846	-2.1	80	0.00
30		1,2,4-Trichlorobenzene	40.000	39.998	0.0	80	0.00
31		Naphthalene	40.000	39.574	1.1	80	0.00
32		Benzoic acid	40.000	48.051	-20.1	106	-0.01
33		4-Chloroaniline	40.000	40.091	-0.2	81	0.00
34	C	Hexachlorobutadiene	40.000	38.603	3.5	77	0.00
35		Caprolactam	40.000	44.676	-11.7	88	0.00
36	C	4-Chloro-3-methylphenol	40.000	40.944	-2.4	81	0.00
37		2-Methylnaphthalene	40.000	38.964	2.6	79	0.00
38		1-Methylnaphthalene	40.000	39.860	0.4	81	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	81	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	39.950	0.1	80	0.00
41	P	Hexachlorocyclopentadiene	40.000	38.977	2.6	74	0.00
42	S	2,4,6-Tribromophenol	80.000	89.332	-11.7	85	0.00
43	C	2,4,6-Trichlorophenol	40.000	42.317	-5.8	81	0.00
44		2,4,5-Trichlorophenol	40.000	44.643	-11.6	87	0.00
45	S	2-Fluorobiphenyl	80.000	78.861	1.4	81	0.00
46		1,1'-Biphenyl	40.000	39.541	1.1	80	0.00
47		2-Chloronaphthalene	40.000	40.733	-1.8	82	0.00

Sample Results: **BF141835.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	48.579	-21.4	101	0.00
49		Acenaphthylene	40.000	40.985	-2.5	82	0.00
50		Dimethylphthalate	40.000	39.595	1.0	79	-0.01
51		2,6-Dinitrotoluene	40.000	46.487	-16.2	94	0.00
52	C	Acenaphthene	40.000	41.819	-4.5	84	0.00
53		3-Nitroaniline	40.000	48.006	-20.0	96	0.00
54	P	2,4-Dinitrophenol	40.000	57.060	-42.7#	131	0.00
55		Dibenzofuran	40.000	40.368	-0.9	82	0.00
56	P	4-Nitrophenol	40.000	57.194	-43.0#	101	0.00
57		2,4-Dinitrotoluene	40.000	49.981	-25.0	102	0.00
58		Fluorene	40.000	40.458	-1.1	83	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	43.711	-9.3	84	0.00
60		Diethylphthalate	40.000	39.332	1.7	77	-0.01
61		4-Chlorophenyl-phenylether	40.000	39.043	2.4	79	0.00
62		4-Nitroaniline	40.000	57.675	-44.2#	100	-0.01
63		Azobenzene	40.000	38.283	4.3	76	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	85	0.00
65		4,6-Dinitro-2-methylphenol	40.000	51.268	-28.2#	119	0.00
66	c	n-Nitrosodiphenylamine	40.000	38.849	2.9	81	0.00
67		4-Bromophenyl-phenylether	40.000	38.195	4.5	79	0.00
68		Hexachlorobenzene	40.000	39.651	0.9	82	0.00
69		Atrazine	40.000	34.483	13.8	74	0.00
70	C	Pentachlorophenol	40.000	45.085	-12.7	89	0.00
71		Phenanthrene	40.000	40.455	-1.1	85	0.00
72		Anthracene	40.000	40.598	-1.5	86	0.00
73		Carbazole	40.000	41.829	-4.6	88	0.00
74		Di-n-butylphthalate	40.000	37.694	5.8	79	0.00
75	C	Fluoranthene	40.000	42.219	-5.5	90	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	95	0.00
77		Benzidine	40.000	60.734	-51.8#	139	0.00
78		Pyrene	40.000	39.773	0.6	91	0.00
79	S	Terphenyl-d14	80.000	76.987	3.8	89	0.00
80		Butylbenzylphthalate	40.000	41.053	-2.6	92	-0.01
81		Benzo(a)anthracene	40.000	39.619	1.0	94	0.00
82		3,3'-Dichlorobenzidine	40.000	40.293	-0.7	92	-0.01
83		Chrysene	40.000	39.076	2.3	89	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	41.198	-3.0	92	-0.01
85	c	Di-n-octyl phthalate	40.000	38.592	3.5	82	-0.01
86	I	Perylene-d12	20.000	20.000	0.0	91	-0.01
87		Indeno(1,2,3-cd)pyrene	40.000	41.147	-2.9	88	-0.02
88		Benzo(b)fluoranthene	40.000	40.178	-0.4	95	-0.01
89		Benzo(k)fluoranthene	40.000	36.524	8.7	79	-0.01
90	C	Benzo(a)pyrene	40.000	39.322	1.7	87	-0.01
91		Dibenzo(a,h)anthracene	40.000	41.050	-2.6	87	-0.01
92		Benzo(g,h,i)perylene	40.000	41.520	-3.8	89	-0.02

Sample Results: **BF141835.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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: **BF141858.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: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: BNA_F Calibration Date/Time: 03/06/2025 09:52

Lab File ID: BF141858.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.252	1.263		0.9	
Benzaldehyde	0.948	0.847		-10.7	
Phenol-d6	1.630	1.584		-2.8	
Phenol	1.742	1.692		-2.9	20.0
bis(2-Chloroethyl)ether	1.328	1.246		-6.2	
2-Chlorophenol	1.355	1.366		0.8	
2-Methylphenol	1.118	1.076		-3.8	
2,2-oxybis(1-Chloropropane)	2.016	1.664		-17.5	
Acetophenone	0.487	0.490		0.6	
3+4-Methylphenols	1.392	1.366		-1.9	
n-Nitroso-di-n-propylamine	1.072	0.946	0.050	-11.8	
Nitrobenzene-d5	0.313	0.382		22.0	
Hexachloroethane	0.547	0.554		1.3	
Nitrobenzene	0.335	0.382		14.0	
Isophorone	0.672	0.635		-5.5	
2-Nitrophenol	0.127	0.188		48.0	20.0
2,4-Dimethylphenol	0.247	0.253		2.4	
bis(2-Chloroethoxy)methane	0.429	0.412		-4.0	
2,4-Dichlorophenol	0.285	0.305		7.0	20.0
Naphthalene	1.028	1.054		2.5	
4-Chloroaniline	0.377	0.374		-0.8	
Hexachlorobutadiene	0.194	0.208		7.2	20.0
Caprolactam	0.088	0.093		5.7	
4-Chloro-3-methylphenol	0.317	0.330		4.1	20.0
2-Methylnaphthalene	0.674	0.684		1.5	
Hexachlorocyclopentadiene	0.241	0.266	0.050	10.4	
2,4,6-Trichlorophenol	0.373	0.399		7.0	20.0
2-Fluorobiphenyl	1.247	1.292		3.6	
2,4,5-Trichlorophenol	0.369	0.413		11.9	
1,1-Biphenyl	1.522	1.560		2.5	
2-Chloronaphthalene	1.124	1.157		2.9	
2-Nitroaniline	0.260	0.356		36.9	
Dimethylphthalate	1.339	1.363		1.8	
Acenaphthylene	1.685	1.735		3.0	
2,6-Dinitrotoluene	0.226	0.300		32.7	
3-Nitroaniline	0.241	0.314		30.3	
Acenaphthene	1.137	1.209		6.3	20.0
2,4-Dinitrophenol	0.089	0.159	0.050	78.7	
4-Nitrophenol	0.198	0.262	0.050	32.3	

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: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: BNA_F Calibration Date/Time: 03/06/2025 09:52

Lab File ID: BF141858.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.654	1.682		1.7	
2,4-Dinitrotoluene	0.269	0.396		47.2	
Diethylphthalate	1.343	1.344		0.1	
4-Chlorophenyl-phenylether	0.621	0.640		3.1	
Fluorene	1.239	1.270		2.5	
4-Nitroaniline	0.229	0.307		34.1	
4,6-Dinitro-2-methylphenol	0.081	0.132		63.0	
n-Nitrosodiphenylamine	0.657	0.670		2.0	20.0
2,4,6-Tribromophenol	0.188	0.224		19.1	
4-Bromophenyl-phenylether	0.234	0.243		3.8	
Hexachlorobenzene	0.247	0.266		7.7	
Atrazine	0.181	0.155		-14.4	
Pentachlorophenol	0.156	0.186		19.2	20.0
Phenanthrene	1.070	1.115		4.2	
Anthracene	1.072	1.115		4.0	
Carbazole	0.947	0.988		4.3	
Di-n-butylphthalate	1.200	1.188		-1.0	
Fluoranthene	1.096	1.142		4.2	20.0
Pyrene	1.732	1.820		5.1	
Terphenyl-d14	1.236	1.301		5.3	
Butylbenzylphthalate	0.629	0.650		3.3	
3,3-Dichlorobenzidine	0.379	0.405		6.9	
Benzo(a)anthracene	1.321	1.360		3.0	
Chrysene	1.218	1.218		0.0	
Bis(2-ethylhexyl)phthalate	0.783	0.799		2.0	
Di-n-octyl phthalate	1.173	1.163		-0.9	20.0
Benzo(b)fluoranthene	1.362	1.388		1.9	
Benzo(k)fluoranthene	1.158	1.073		-7.3	
Benzo(a)pyrene	1.093	1.113		1.8	20.0
Indeno(1,2,3-cd)pyrene	1.274	1.507		18.3	
Dibenzo(a,h)anthracene	1.040	1.220		17.3	
Benzo(g,h,i)perylene	1.065	1.282		20.4	
1,2,4,5-Tetrachlorobenzene	0.578	0.607		5.0	
1,4-Dioxane	0.568	0.556		-2.1	20.0
2,3,4,6-Tetrachlorophenol	0.321	0.362		12.8	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	207866	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	779725	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	422269	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	691934	20.000	ng	0.00
76) Chrysene-d12	14.045	240	434521	20.000	ng	0.00
86) Perylene-d12	15.515	264	382575	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1050190	80.684	ng	0.00
7) Phenol-d6	6.510	99	1317214	77.750	ng	0.00
23) Nitrobenzene-d5	7.445	82	1192671	97.772	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	378753	95.540	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	2181831	82.849	ng	0.00
79) Terphenyl-d14	12.986	244	2261369	84.201	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.663	88	231018	39.116	ng	97
3) Pyridine	3.434	79	570443	38.819	ng	97
4) n-Nitrosodimethylamine	3.381	42	275112	38.909	ng	98
6) Aniline	6.551	93	662584	37.619	ng	99
8) 2-Chlorophenol	6.669	128	567877	40.331	ng	99
9) Benzaldehyde	6.439	77	351965	35.716	ng	96
10) Phenol	6.522	94	703333	38.850	ng	99
11) bis(2-Chloroethyl)ether	6.622	93	517816	37.524	ng	97
12) 1,3-Dichlorobenzene	6.828	146	605732	40.171	ng	100
13) 1,4-Dichlorobenzene	6.904	146	625404	41.163	ng	99
14) 1,2-Dichlorobenzene	7.057	146	568001	40.035	ng	99
15) Benzyl Alcohol	7.022	79	524097	38.708	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	691607	33.001	ng	97
17) 2-Methylphenol	7.128	107	447215	38.479	ng	99
18) Hexachloroethane	7.398	117	230292	40.497	ng	98
19) n-Nitroso-di-n-propyla...	7.298	70	393107	35.298	ng	98
20) 3+4-Methylphenols	7.281	107	568081	39.253	ng	95
22) Acetophenone	7.292	105	764218	40.243	ng	100
24) Nitrobenzene	7.469	77	596360	45.653	ng	97
25) Isophorone	7.704	82	990974	37.814	ng	98
26) 2-Nitrophenol	7.781	139	292782	49.968	ng	99
27) 2,4-Dimethylphenol	7.810	122	394540	40.956	ng	99
28) bis(2-Chloroethoxy)met...	7.916	93	642746	38.448	ng	99
29) 2,4-Dichlorophenol	8.016	162	475671	42.802	ng	99
30) 1,2,4-Trichlorobenzene	8.110	180	518388	42.568	ng	99
31) Naphthalene	8.192	128	1644085	41.026	ng	99
32) Benzoic acid	7.916	122	390032	48.428	ng	98
33) 4-Chloroaniline	8.233	127	583547	39.713	ng	99
34) Hexachlorobutadiene	8.304	225	324659	42.902	ng	99
35) Caprolactam	8.598	113	144396	42.235	ng	89
36) 4-Chloro-3-methylphenol	8.704	107	514325	41.661	ng	99
37) 2-Methylnaphthalene	8.880	142	1066438	40.571	ng	99
38) 1-Methylnaphthalene	8.980	142	1024218	40.609	ng	98
40) 1,2,4,5-Tetrachloroben...	9.045	216	513015	42.066	ng	99
41) Hexachlorocyclopentadiene	9.033	237	224284	44.067	ng	100
43) 2,4,6-Trichlorophenol	9.151	196	336951	42.772	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

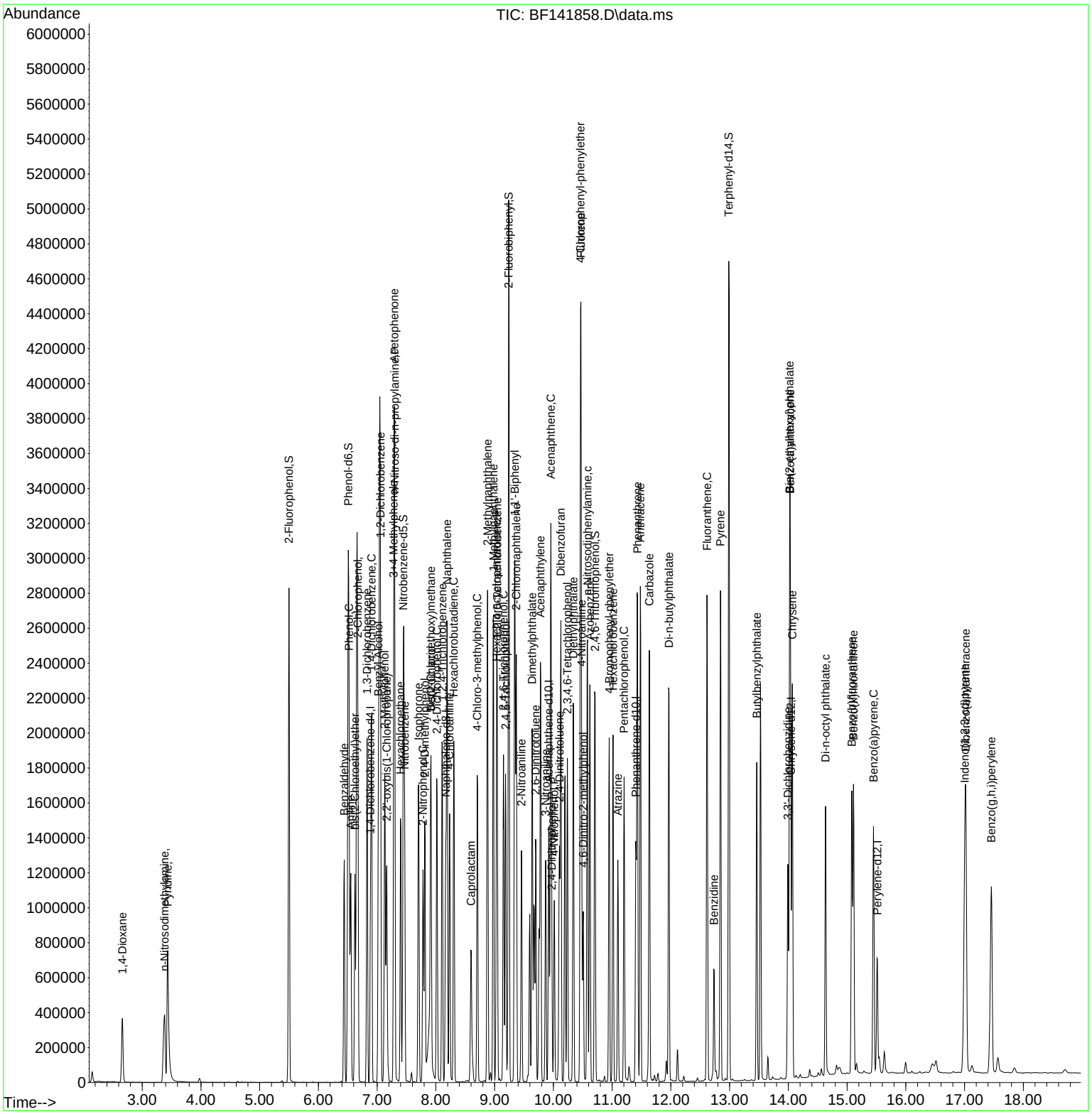
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	349000	44.739	ng		98
46) 1,1'-Biphenyl	9.345	154	1317612	40.994	ng		99
47) 2-Chloronaphthalene	9.369	162	977366	41.199	ng		99
48) 2-Nitroaniline	9.457	65	301038	46.508	ng		95
49) Acenaphthylene	9.780	152	1465550	41.204	ng		99
50) Dimethylphthalate	9.639	163	1150740	40.693	ng		100
51) 2,6-Dinitrotoluene	9.698	165	253007	46.842	ng		96
52) Acenaphthene	9.957	154	1020635	42.527	ng		99
53) 3-Nitroaniline	9.869	138	265149	46.137	ng	#	95
54) 2,4-Dinitrophenol	9.975	184	134035	59.722	ng	#	1
55) Dibenzofuran	10.127	168	1420674	40.671	ng		100
56) 4-Nitrophenol	10.016	139	221169	52.954	ng		97
57) 2,4-Dinitrotoluene	10.104	165	334417	50.419	ng		90
58) Fluorene	10.469	166	1072855	41.003	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	306137	45.123	ng		100
60) Diethylphthalate	10.339	149	1135424	40.052	ng		99
61) 4-Chlorophenyl-phenyle...	10.463	204	540721	41.246	ng		98
62) 4-Nitroaniline	10.480	138	259275	53.688	ng		97
63) Azobenzene	10.622	77	1146863	38.422	ng		98
65) 4,6-Dinitro-2-methylph...	10.510	198	182658	54.694	ng		90
66) n-Nitrosodiphenylamine	10.580	169	927726	40.832	ng		99
67) 4-Bromophenyl-phenylether	10.951	248	336262	41.606	ng		98
68) Hexachlorobenzene	11.016	284	367747	43.090	ng		98
69) Atrazine	11.098	200	214392	34.313	ng		98
70) Pentachlorophenol	11.204	266	256754	47.434	ng		99
71) Phenanthrene	11.433	178	1542542	41.677	ng		99
72) Anthracene	11.480	178	1542354	41.580	ng		99
73) Carbazole	11.633	167	1367611	41.751	ng		100
74) Di-n-butylphthalate	11.969	149	1643939	39.592	ng		99
75) Fluoranthene	12.616	202	1579732	41.655	ng		98
77) Benzidine	12.733	184	350744	64.132	ng		100
78) Pyrene	12.845	202	1581543	42.032	ng		99
80) Butylbenzylphthalate	13.463	149	565050	41.333	ng		97
81) Benzo(a)anthracene	14.033	228	1181513	41.166	ng		99
82) 3,3'-Dichlorobenzidine	13.992	252	352265	42.780	ng		100
83) Chrysene	14.068	228	1058301	40.001	ng		99
84) Bis(2-ethylhexyl)phtha...	14.021	149	694013	40.771	ng		99
85) Di-n-octyl phthalate	14.633	149	1010509	39.653	ng		97
87) Indeno(1,2,3-cd)pyrene	17.003	276	1152756	47.319	ng		97
88) Benzo(b)fluoranthene	15.080	252	1062079	40.755	ng		99
89) Benzo(k)fluoranthene	15.110	252	821007	37.066	ng		99
90) Benzo(a)pyrene	15.451	252	851884	40.761	ng		99
91) Dibenzo(a,h)anthracene	17.021	278	933839	46.962	ng		98
92) Benzo(g,h,i)perylene	17.456	276	980552	48.133	ng		97

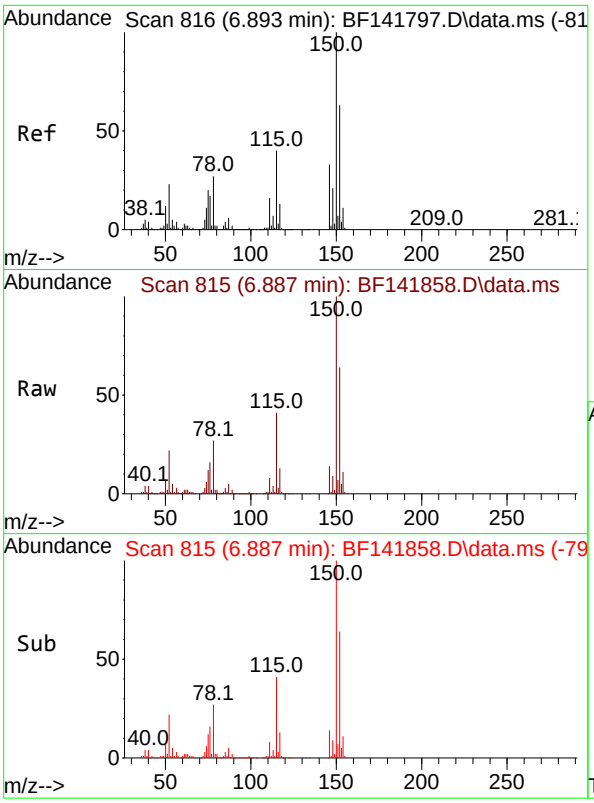
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



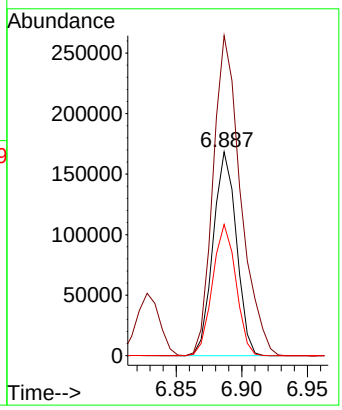


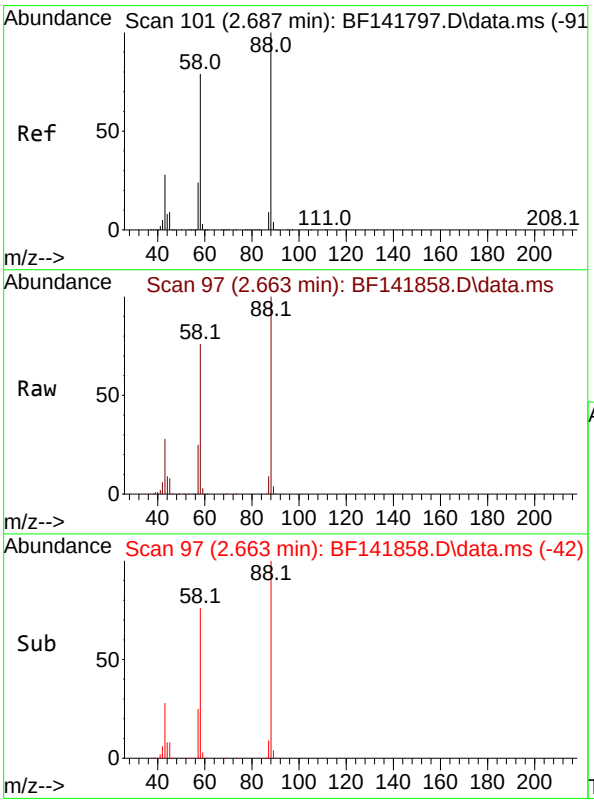
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 207866

Ion	Ratio	Lower	Upper
152	100		
150	157.0	127.5	191.3
115	64.3	51.4	77.2

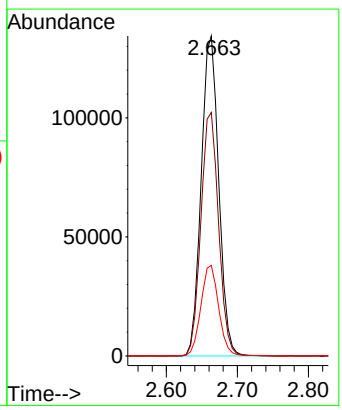


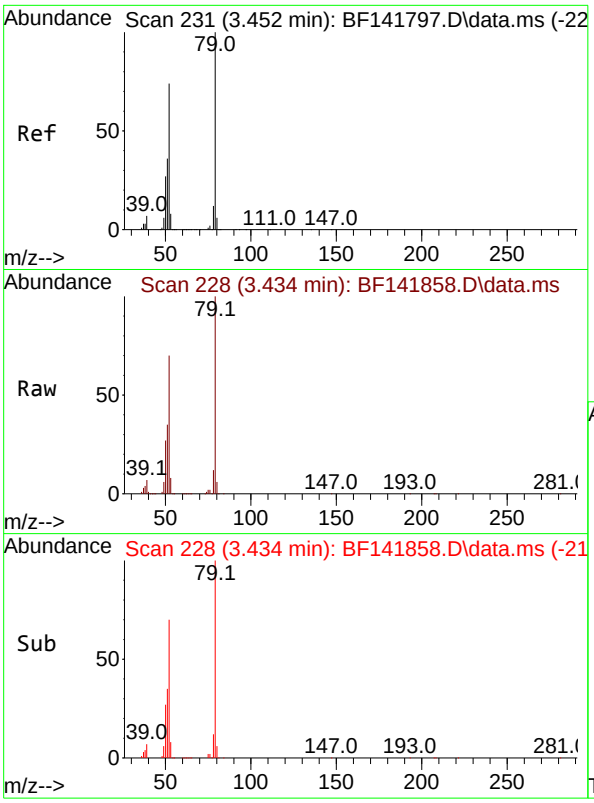


#2
1,4-Dioxane
Concen: 39.116 ng
RT: 2.663 min Scan# 97
Delta R.T. -0.024 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 88 Resp: 231018

Ion	Ratio	Lower	Upper
88	100		
58	76.7	63.9	95.9
43	28.9	23.0	34.6



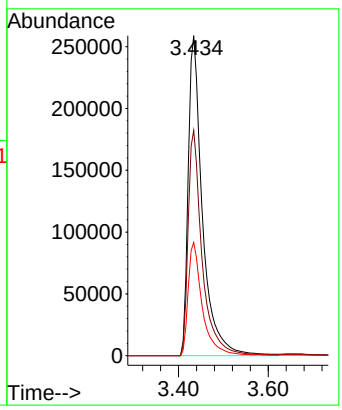


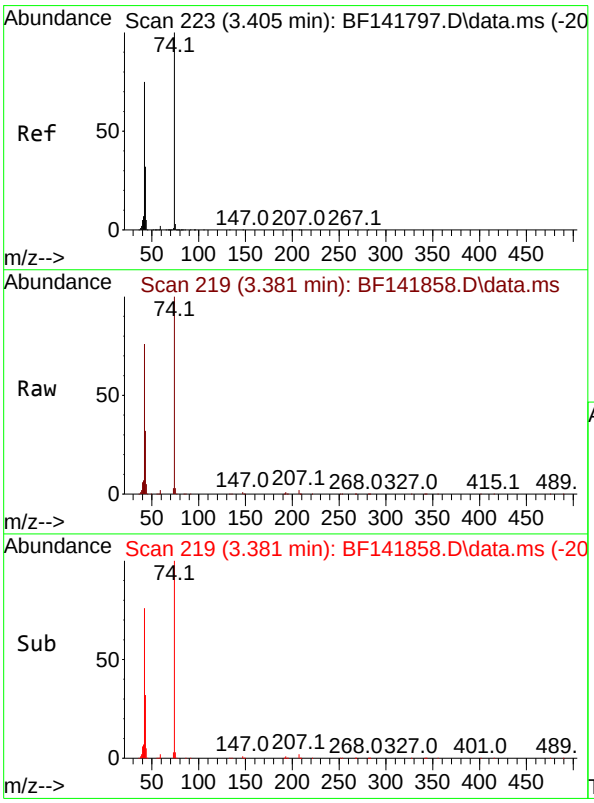
#3
Pyridine
Concen: 38.819 ng
RT: 3.434 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 570443

Ion	Ratio	Lower	Upper
79	100		
52	70.4	59.0	88.4
51	35.4	29.0	43.4

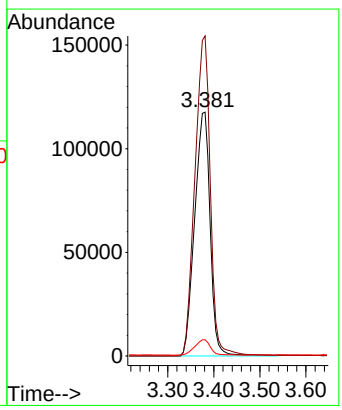


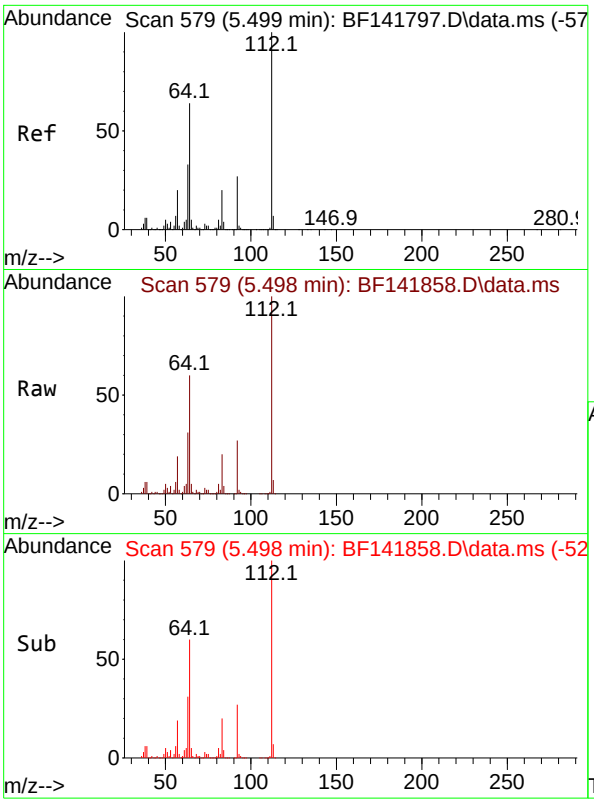


#4
n-Nitrosodimethylamine
Concen: 38.909 ng
RT: 3.381 min Scan# 219
Delta R.T. -0.024 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 42 Resp: 275112

Ion	Ratio	Lower	Upper
42	100		
74	131.2	107.1	160.7
44	6.6	6.6	9.8



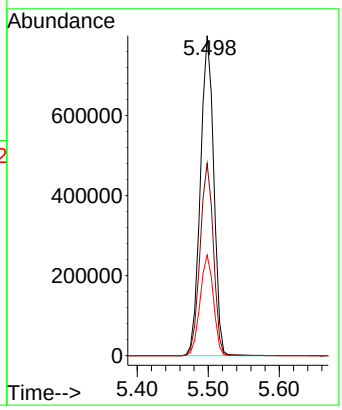


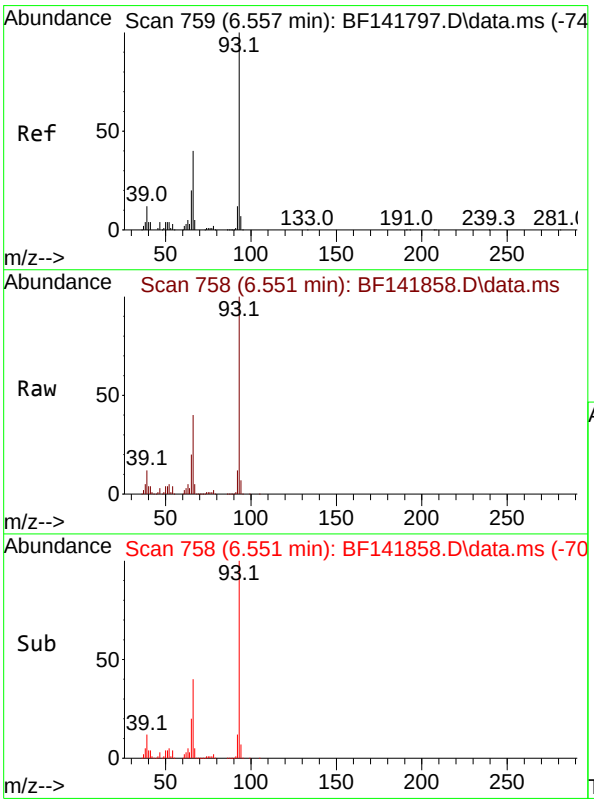
#5
2-Fluorophenol
Concen: 80.684 ng
RT: 5.498 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 1050190

Ion	Ratio	Lower	Upper
112	100		
64	60.0	51.3	76.9
63	31.5	26.2	39.4

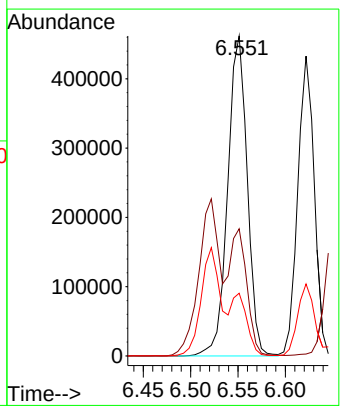


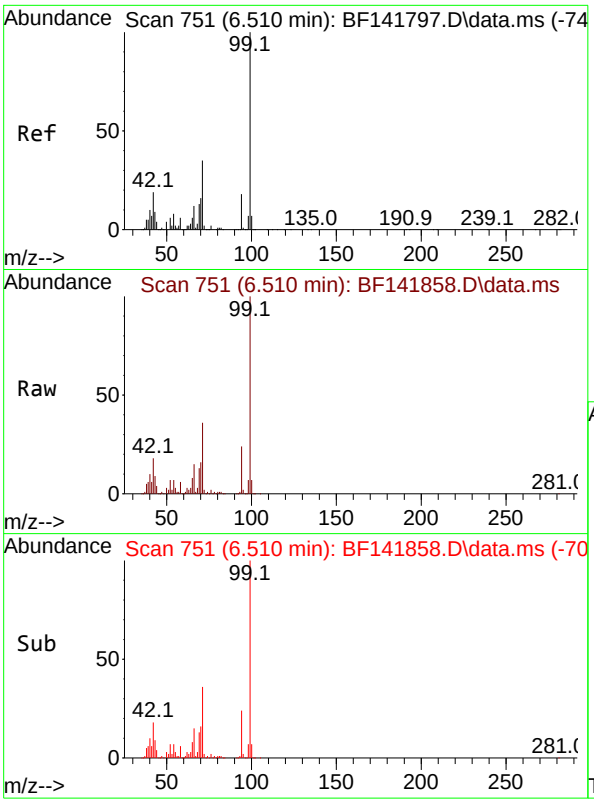


#6
Aniline
Concen: 37.619 ng
RT: 6.551 min Scan# 758
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 93 Resp: 662584

Ion	Ratio	Lower	Upper
93	100		
66	39.7	32.3	48.5
65	19.6	15.9	23.9



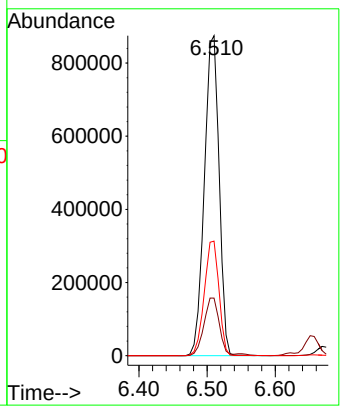


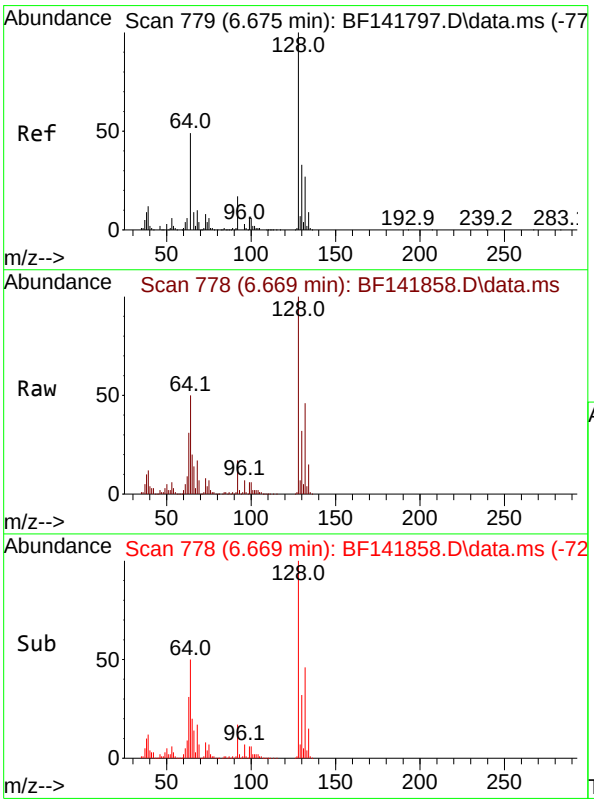
#7
Phenol-d6
Concen: 77.750 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 1317214

Ion	Ratio	Lower	Upper
99	100		
42	18.0	15.2	22.8
71	35.8	28.2	42.2

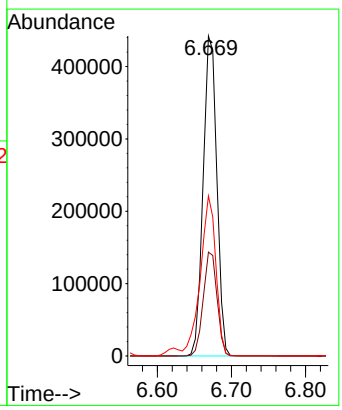


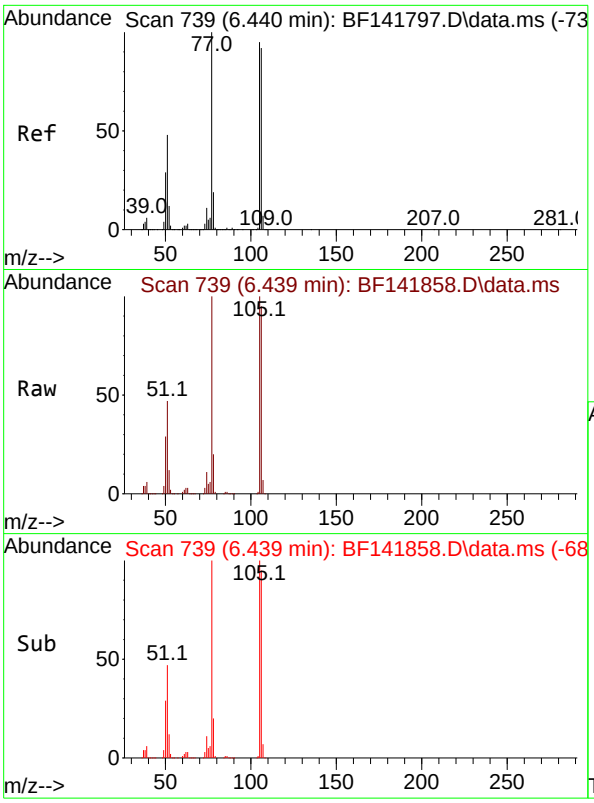


#8
2-Chlorophenol
Concen: 40.331 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:128 Resp: 567877

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.6	52.6
64	50.0	31.1	71.1



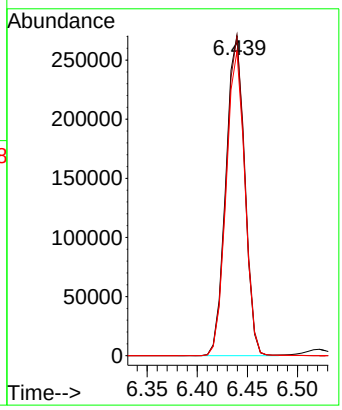


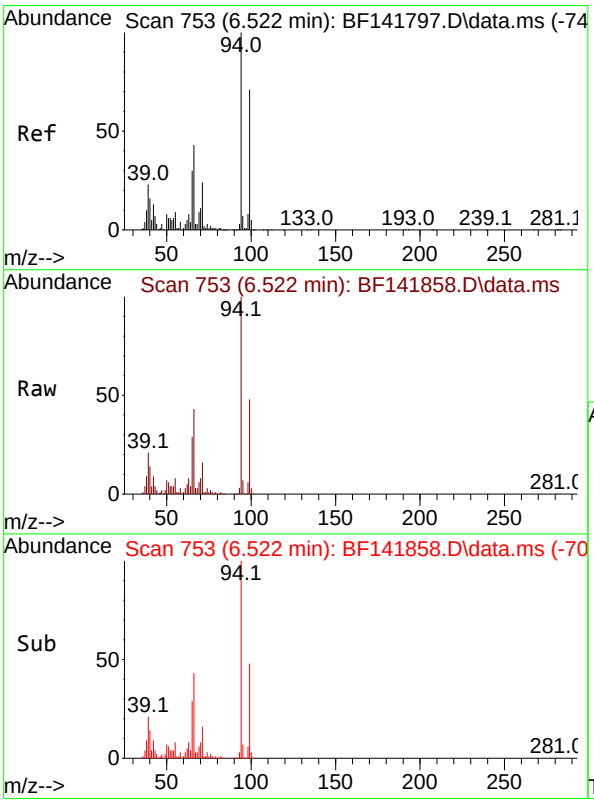
#9
Benzaldehyde
Concen: 35.716 ng
RT: 6.439 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 351965

Ion	Ratio	Lower	Upper
77	100		
105	99.8	75.3	115.3
106	95.1	72.3	112.3

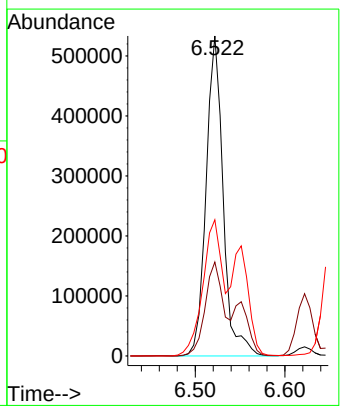


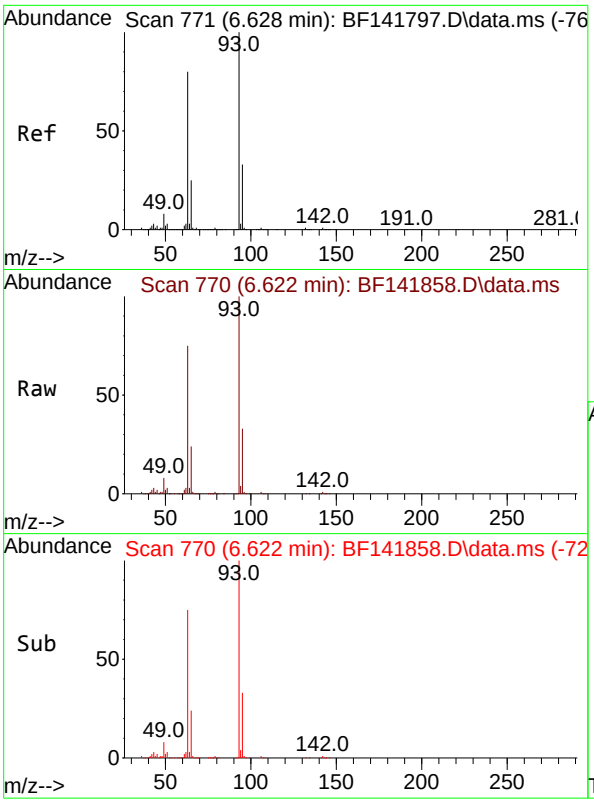


#10
Phenol
Concen: 38.850 ng
RT: 6.522 min Scan# 753
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 94 Resp: 703333

Ion	Ratio	Lower	Upper
94	100		
65	29.3	10.2	50.2
66	42.5	23.2	63.2



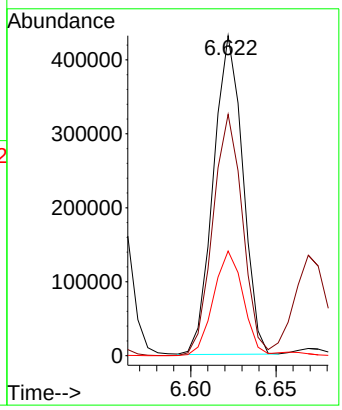


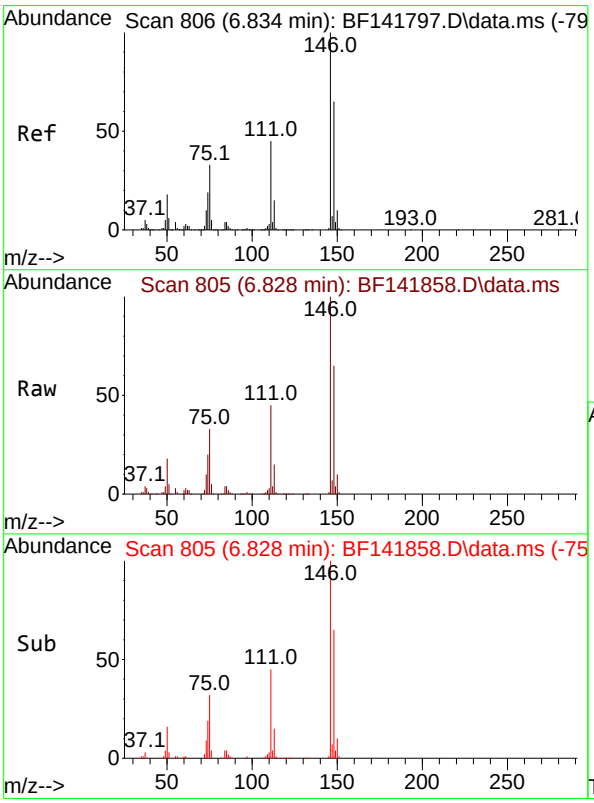
#11
bis(2-Chloroethyl)ether
Concen: 37.524 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 517816

Ion	Ratio	Lower	Upper
93	100		
63	75.4	59.3	99.3
95	32.7	13.2	53.2

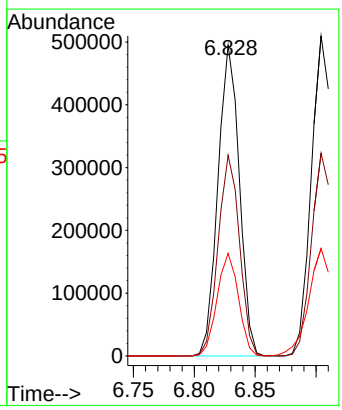


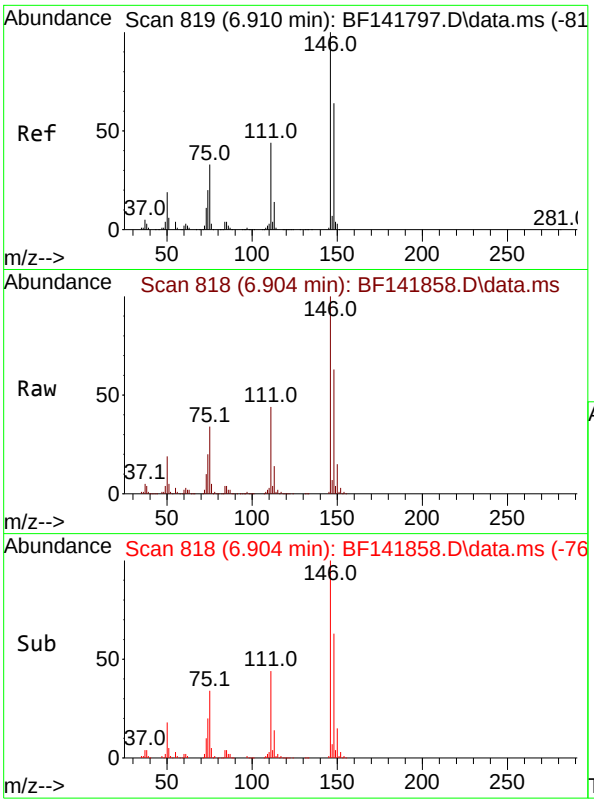


#12
1,3-Dichlorobenzene
Concen: 40.171 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:146 Resp: 605732

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.8	77.6
75	33.0	26.2	39.4



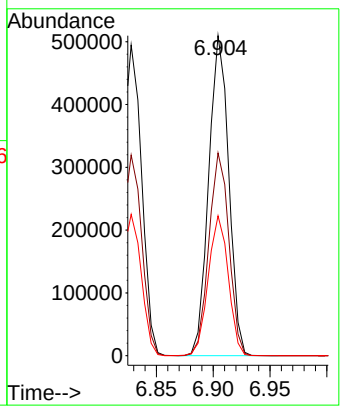


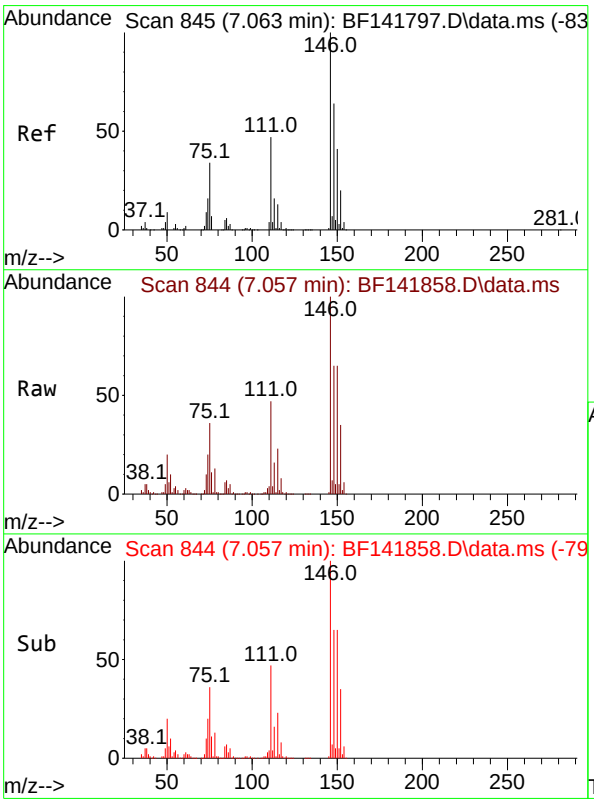
#13
1,4-Dichlorobenzene
Concen: 41.163 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 625404

Ion	Ratio	Lower	Upper
146	100		
148	63.4	51.4	77.2
111	43.7	35.5	53.3

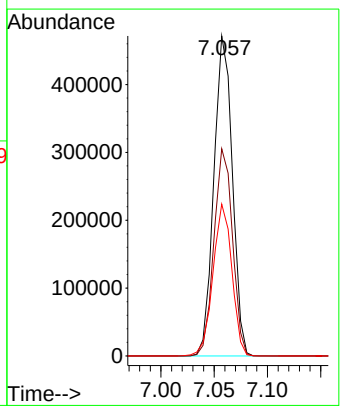


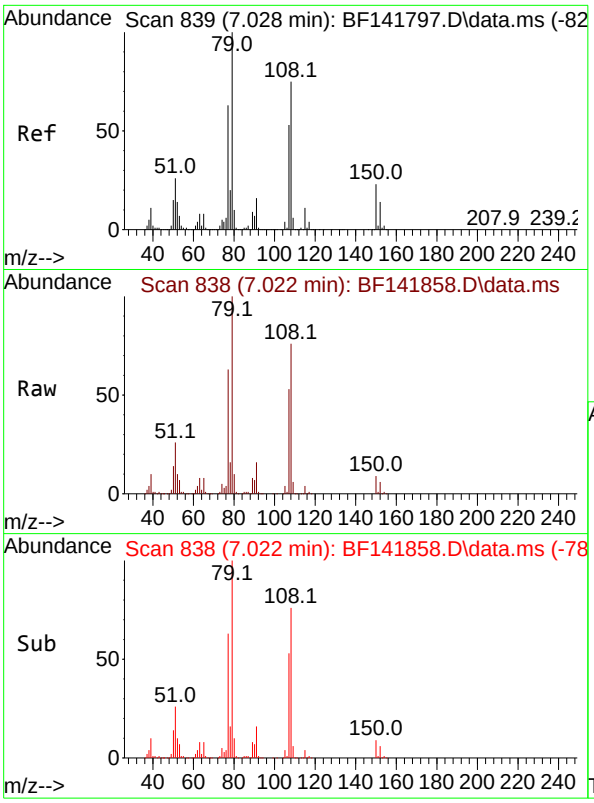


#14
1,2-Dichlorobenzene
Concen: 40.035 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:146 Resp: 568001

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.2	76.8
111	47.5	37.8	56.6



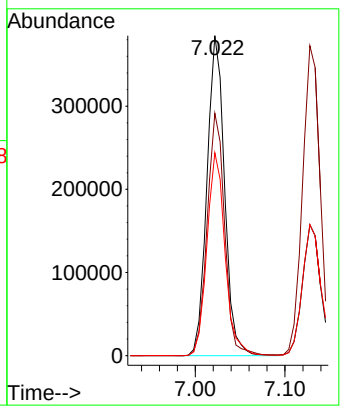


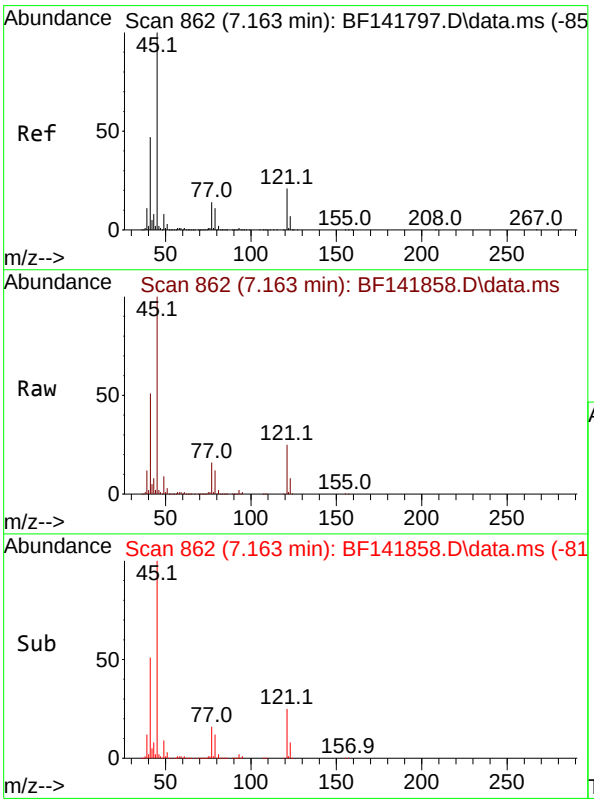
#15
Benzyl Alcohol
Concen: 38.708 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 524097

Ion	Ratio	Lower	Upper
79	100		
108	75.8	60.2	90.2
77	63.4	50.2	75.2

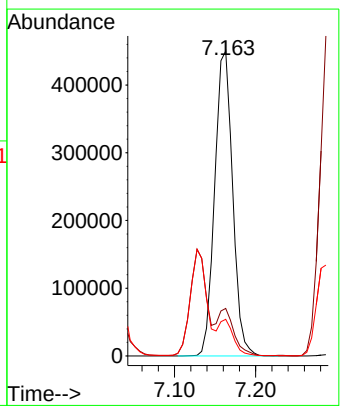


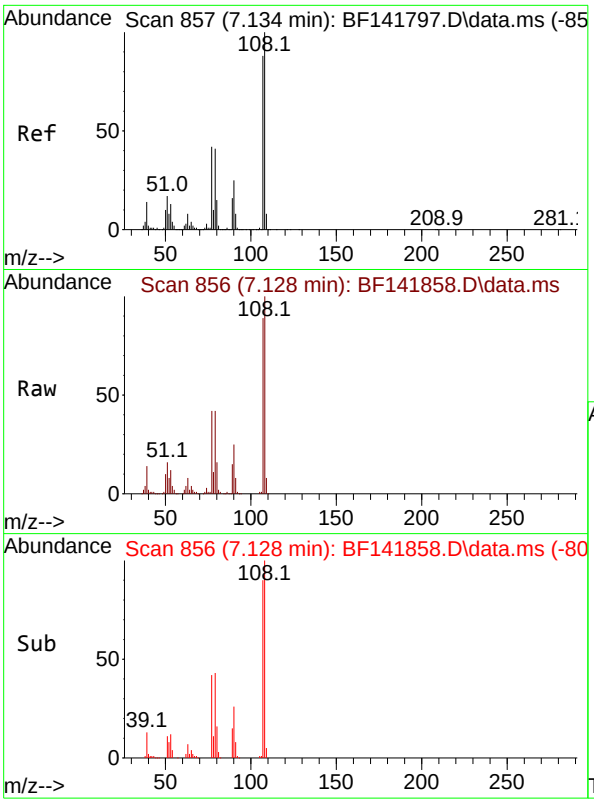


#16
2,2'-oxybis(1-Chloropropane)
Concen: 33.001 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 45 Resp: 691607

Ion	Ratio	Lower	Upper
45	100		
77	15.6	0.0	34.4
79	12.0	0.0	30.9



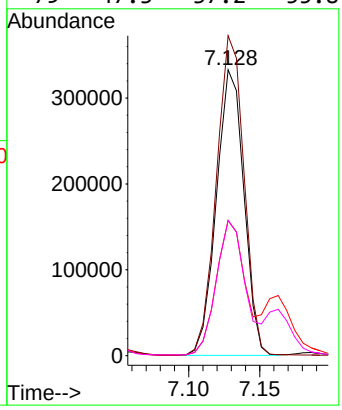


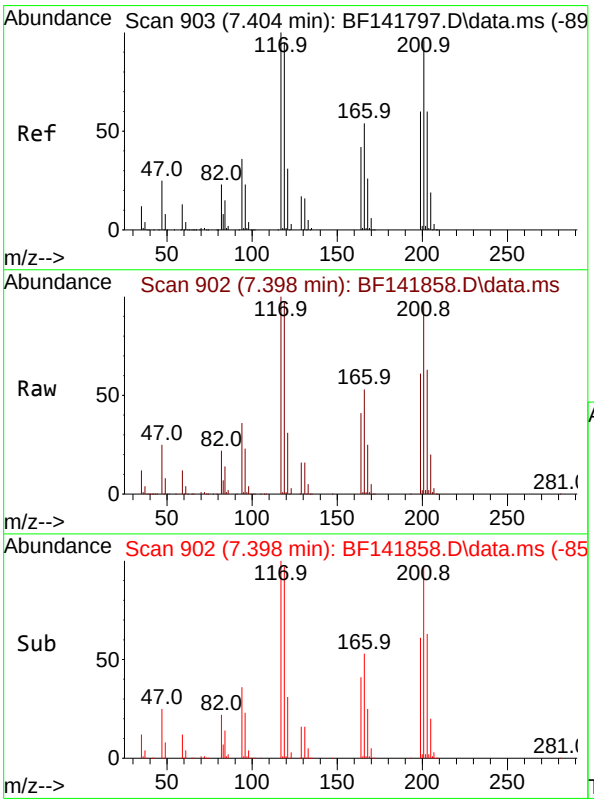
#17
2-Methylphenol
Concen: 38.479 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 447215

Ion	Ratio	Lower	Upper
107	100		
108	111.9	90.6	135.8
77	47.3	37.7	56.5
79	47.3	37.2	55.8

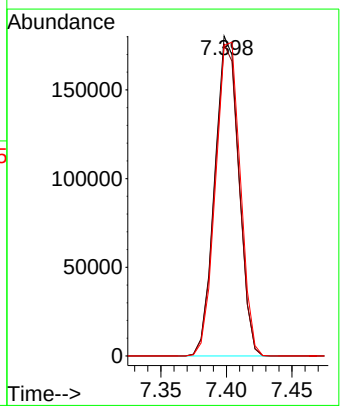


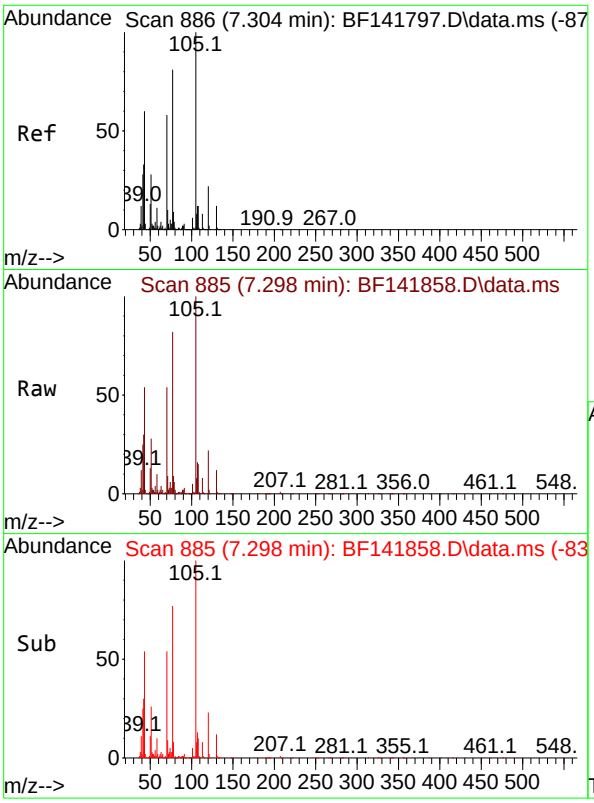


#18
Hexachloroethane
Concen: 40.497 ng
RT: 7.398 min Scan# 902
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:117 Resp: 230292

Ion	Ratio	Lower	Upper
117	100		
119	97.4	75.8	113.8
201	97.1	76.7	115.1



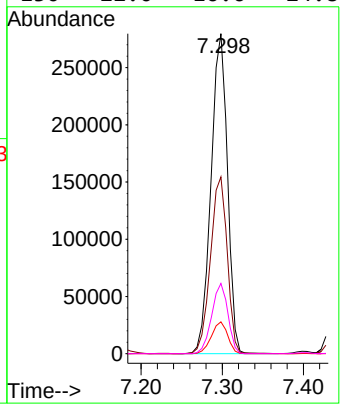


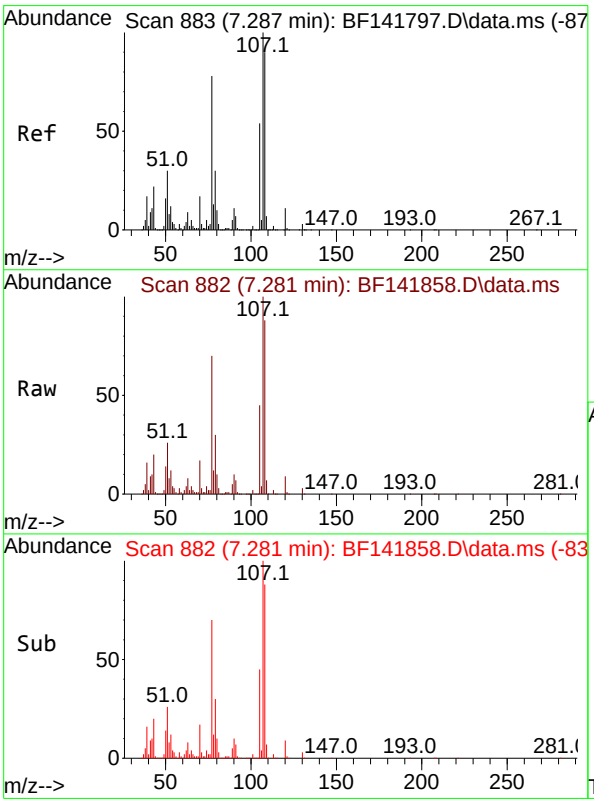
#19
n-Nitroso-di-n-propylamine
Concen: 35.298 ng
RT: 7.298 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 393107

Ion	Ratio	Lower	Upper
70	100		
42	55.3	45.4	68.0
101	10.0	7.8	11.8
130	22.0	16.6	24.8

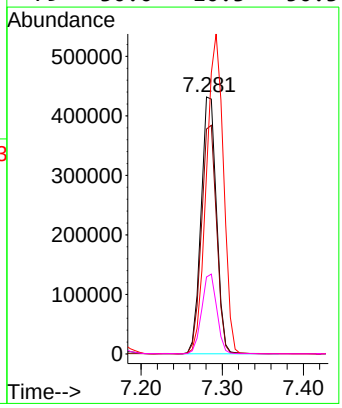


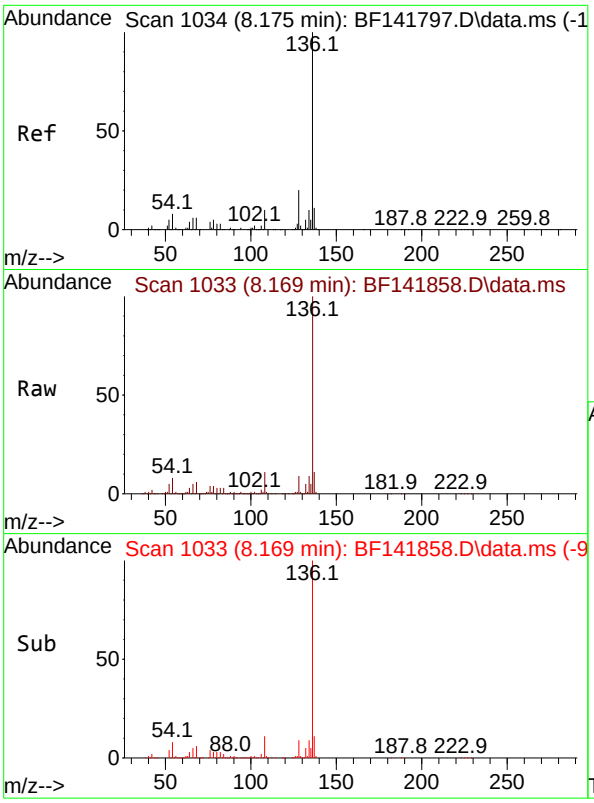


#20
3+4-Methylphenols
Concen: 39.253 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:107 Resp: 568081

Ion	Ratio	Lower	Upper
107	100		
108	87.5	69.7	109.7
77	70.1	58.3	98.3
79	30.0	10.3	50.3



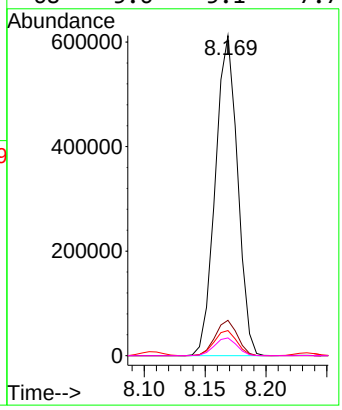


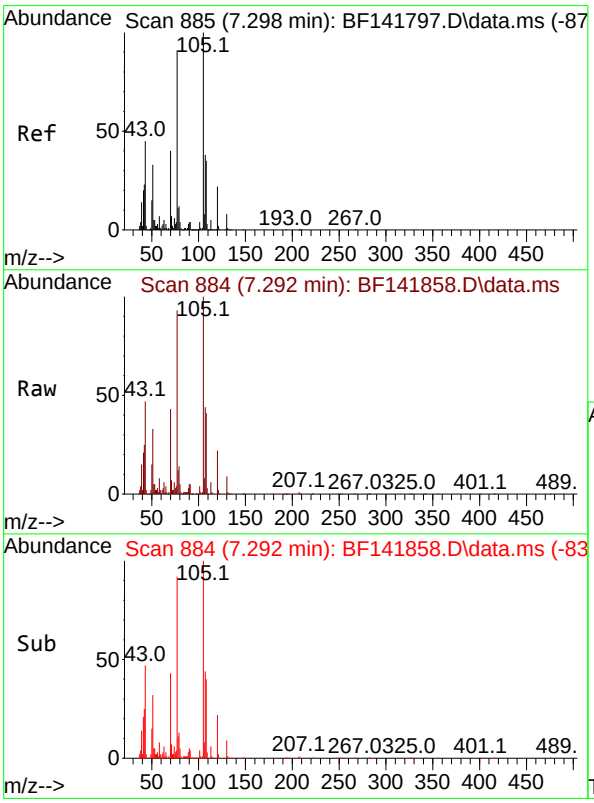
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 779725

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	7.9	6.9	10.3
68	5.6	5.1	7.7

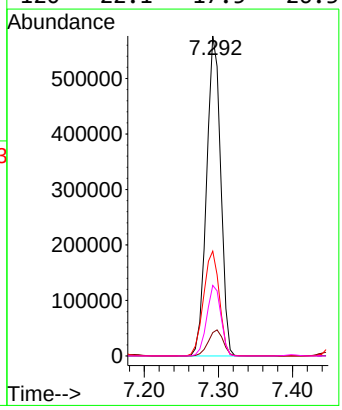


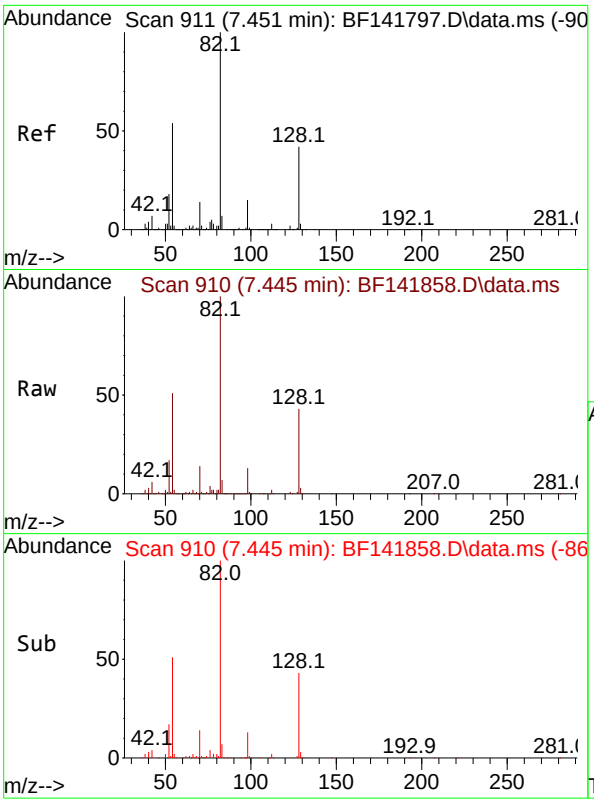


#22
Acetophenone
Concen: 40.243 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:105 Resp: 764218

Ion	Ratio	Lower	Upper
105	100		
71	7.3	5.4	8.0
51	32.8	26.1	39.1
120	22.1	17.5	26.3



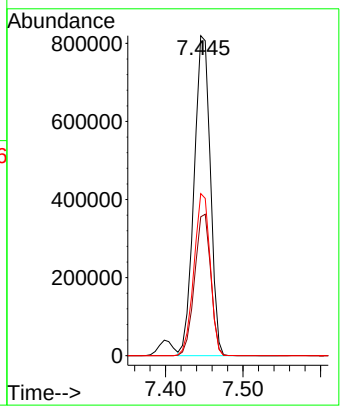


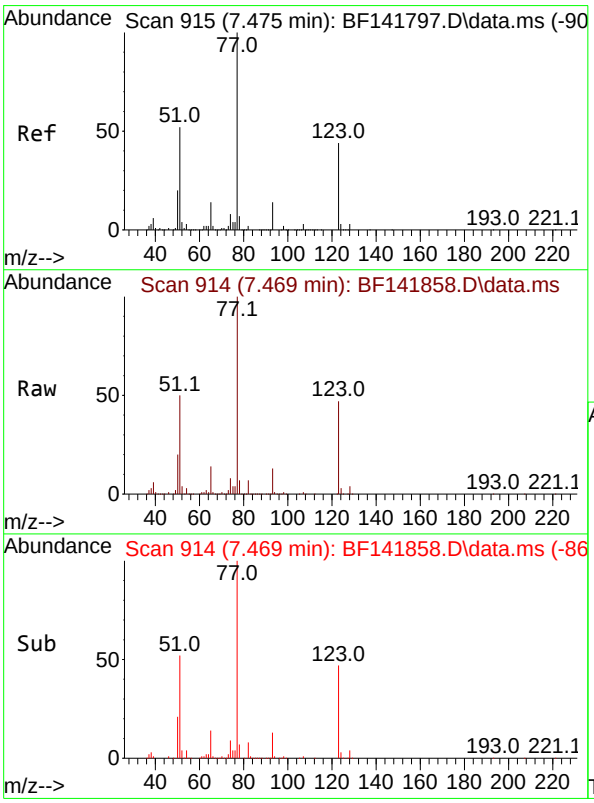
#23
Nitrobenzene-d5
Concen: 97.772 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 1192671

Ion	Ratio	Lower	Upper
82	100		
128	43.4	33.5	50.3
54	50.7	42.7	64.1

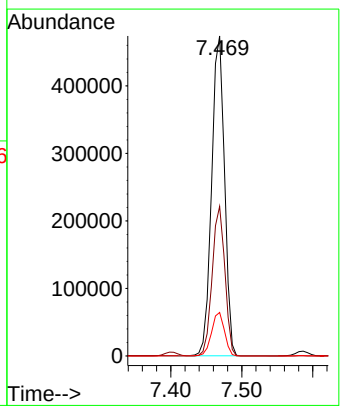


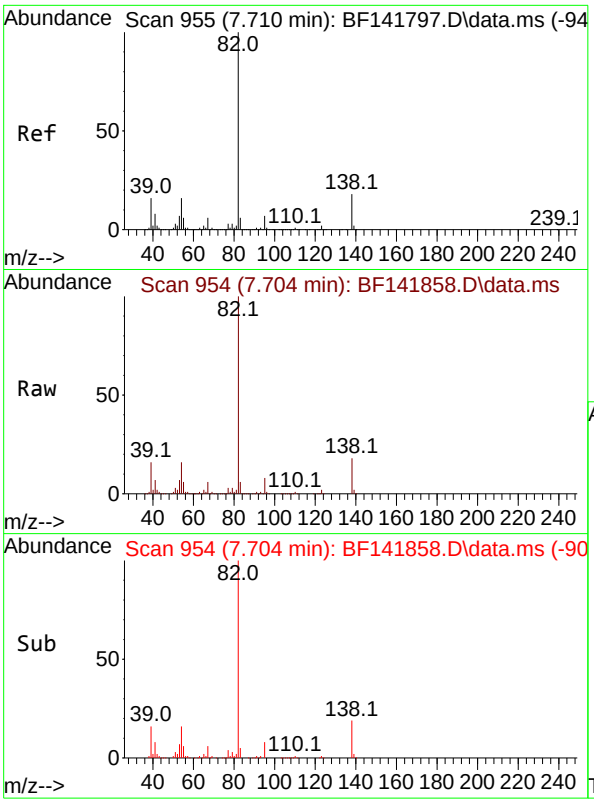


#24
Nitrobenzene
Concen: 45.653 ng
RT: 7.469 min Scan# 914
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 77 Resp: 596360

Ion	Ratio	Lower	Upper
77	100		
123	46.8	35.8	53.8
65	13.6	11.2	16.8



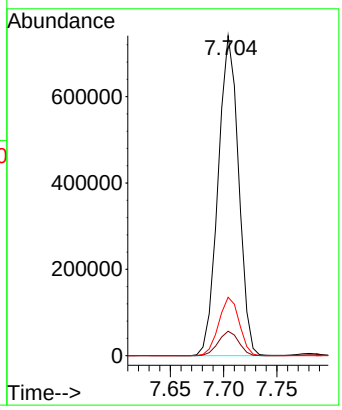


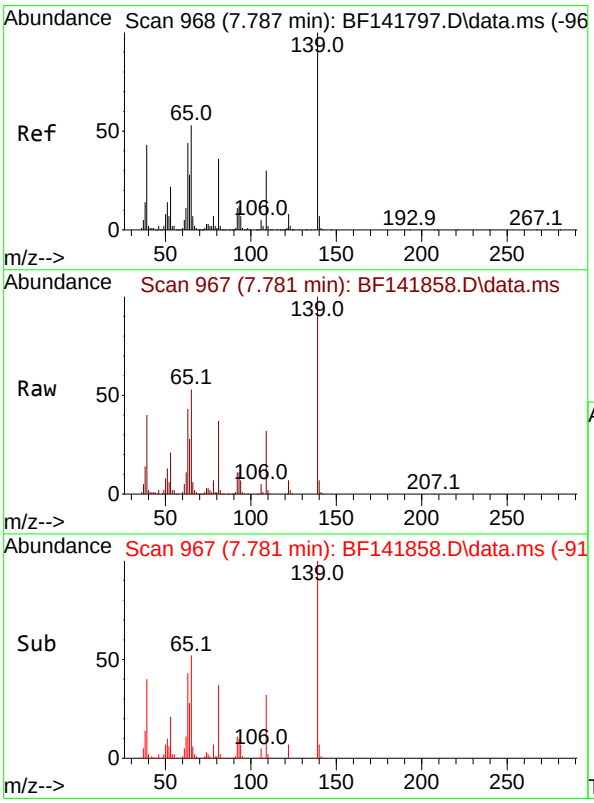
#25
Isophorone
Concen: 37.814 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 990974

Ion	Ratio	Lower	Upper
82	100		
95	7.6	5.8	8.8
138	18.3	14.0	21.0

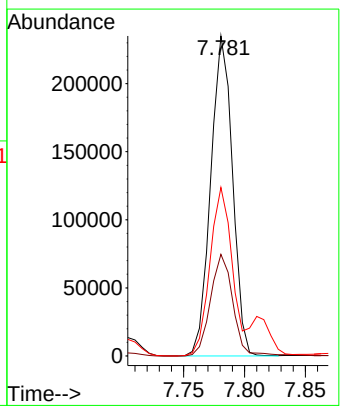


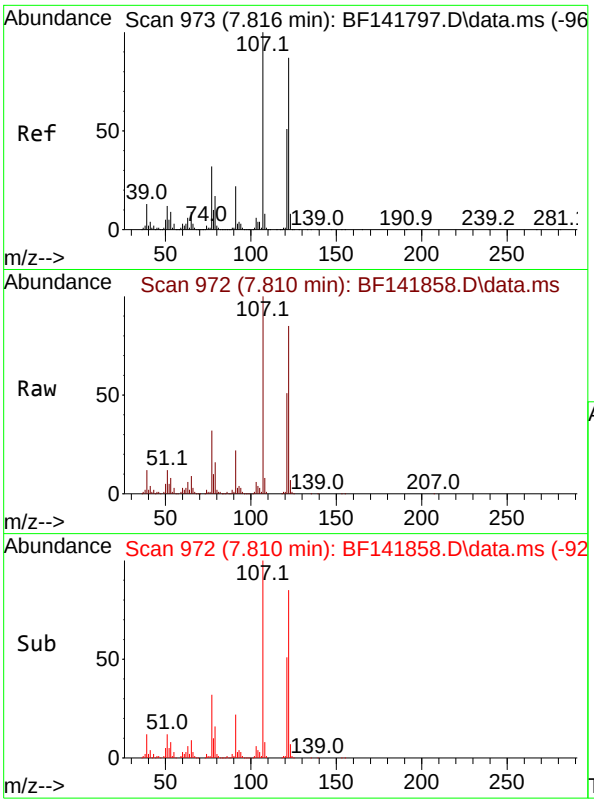


#26
2-Nitrophenol
Concen: 49.968 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:139 Resp: 292782

Ion	Ratio	Lower	Upper
139	100		
109	31.8	24.1	36.1
65	52.6	42.3	63.5



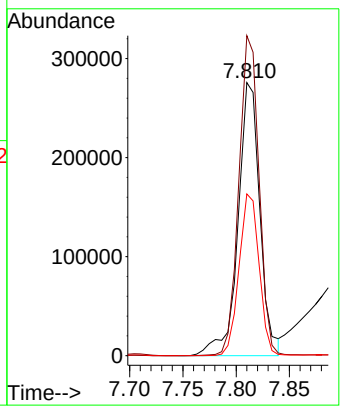


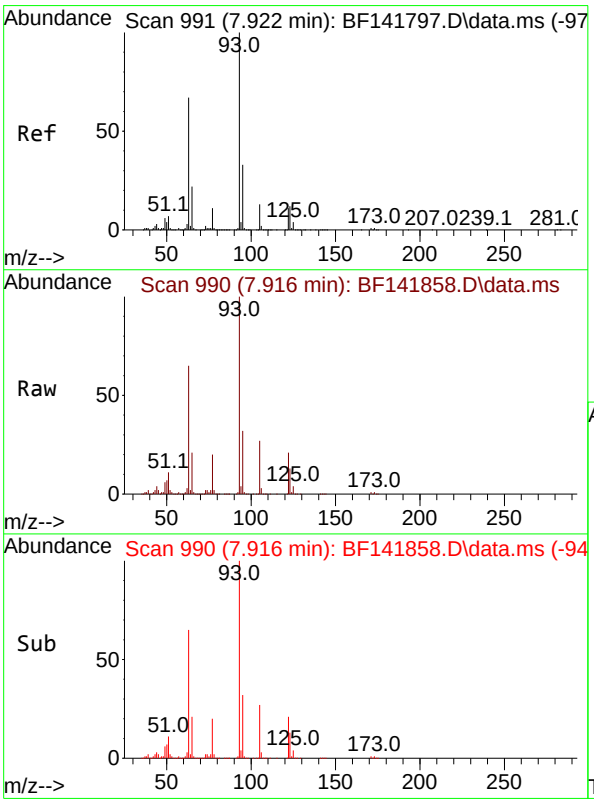
#27
2,4-Dimethylphenol
Concen: 40.956 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 394540

Ion	Ratio	Lower	Upper
122	100		
107	117.1	92.5	138.7
121	59.2	47.1	70.7

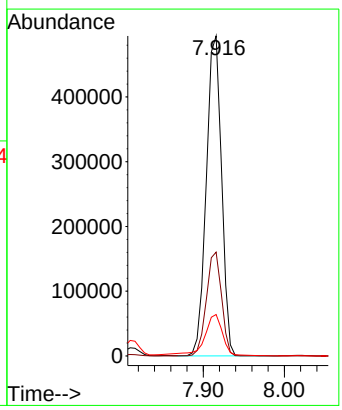


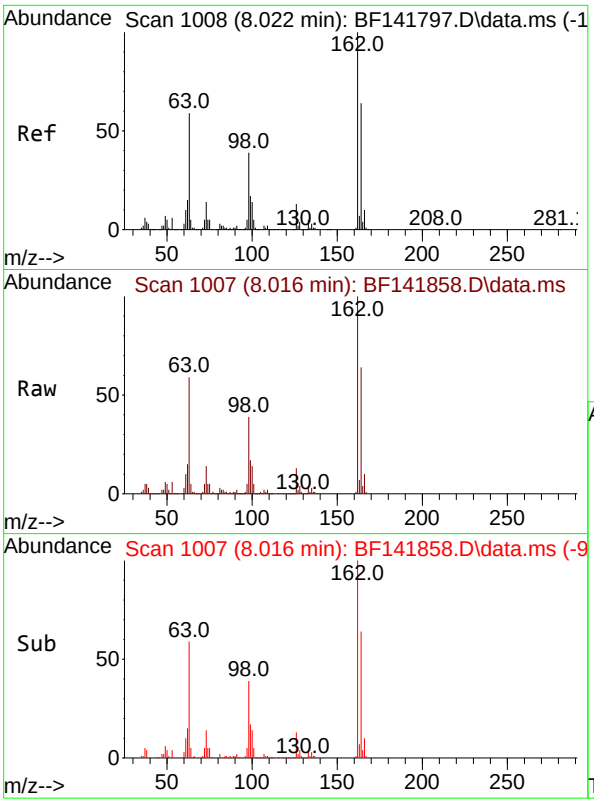


#28
bis(2-Chloroethoxy)methane
Concen: 38.448 ng
RT: 7.916 min Scan# 990
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 93 Resp: 642746

Ion	Ratio	Lower	Upper
93	100		
95	32.4	26.5	39.7
123	13.0	10.0	15.0



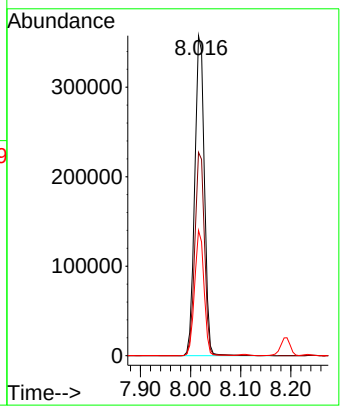


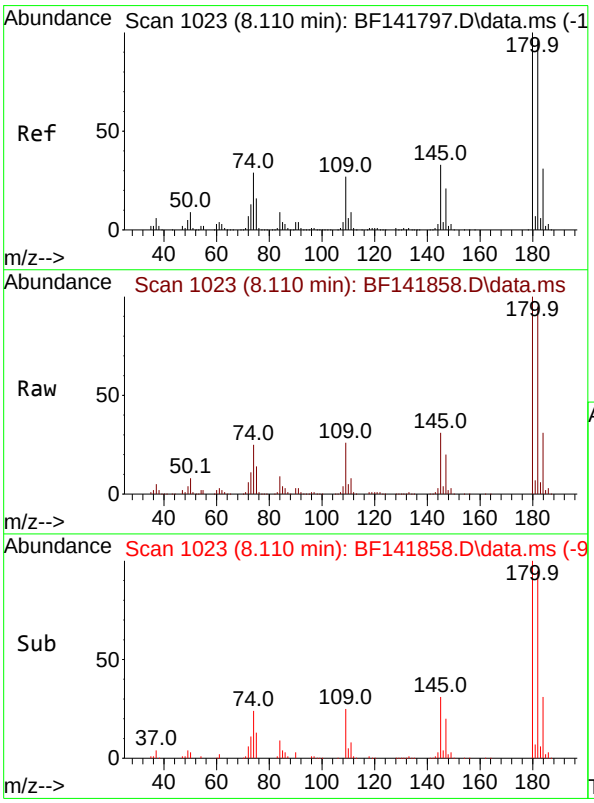
#29
2,4-Dichlorophenol
Concen: 42.802 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 475671

Ion	Ratio	Lower	Upper
162	100		
164	63.5	44.3	84.3
98	39.1	19.6	59.6

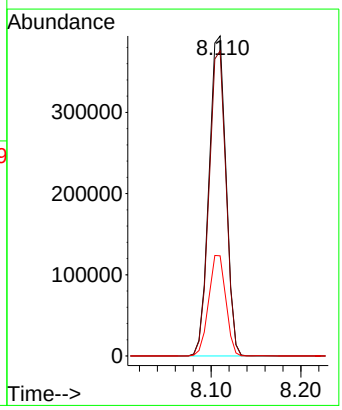


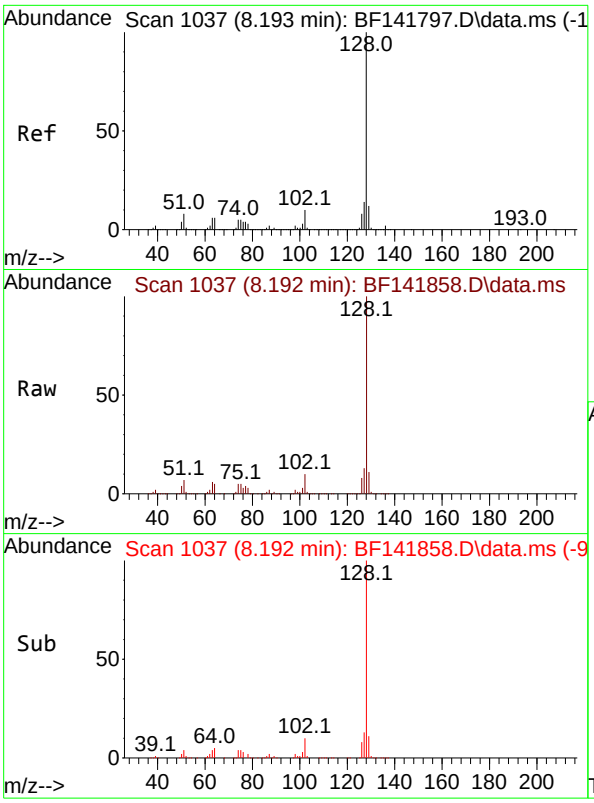


#30
1,2,4-Trichlorobenzene
Concen: 42.568 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:180 Resp: 518388

Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.8	115.2
145	31.3	26.4	39.6



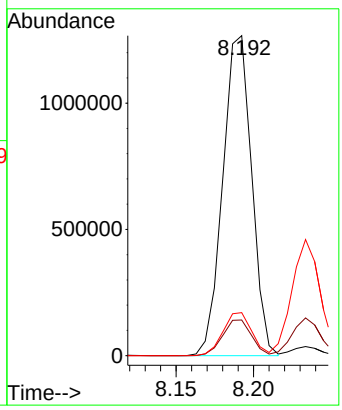


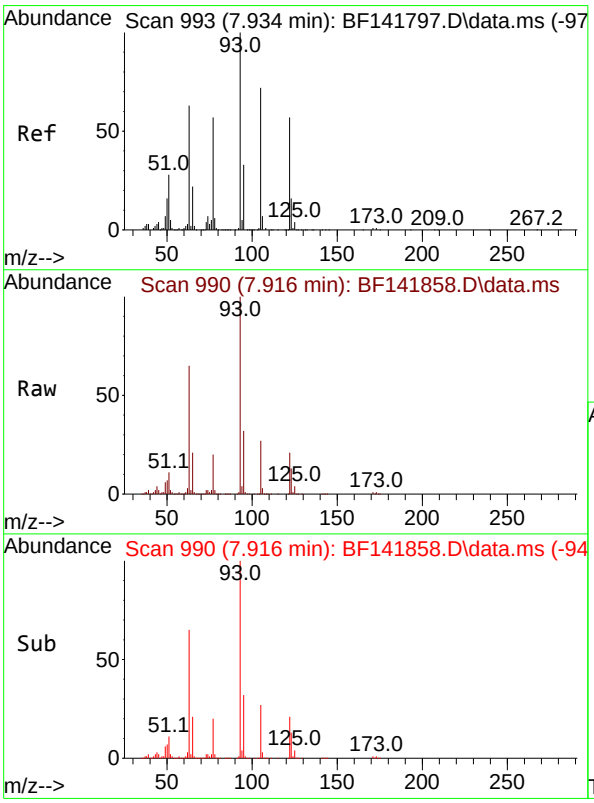
#31
Naphthalene
Concen: 41.026 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 1644085

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.2	13.8
127	13.4	11.0	16.4

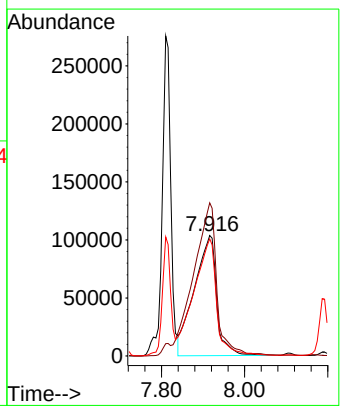


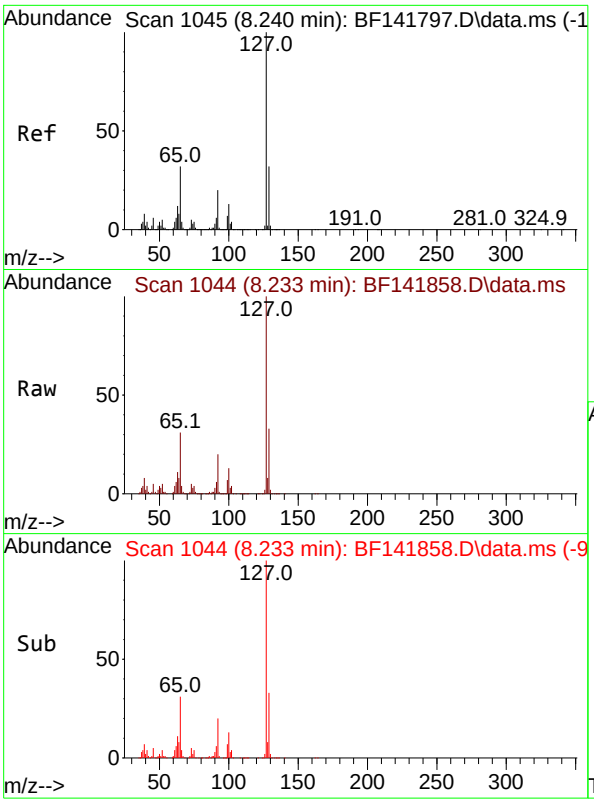


#32
Benzoic acid
Concen: 48.428 ng
RT: 7.916 min Scan# 990
Delta R.T. -0.018 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:122 Resp: 390032

Ion	Ratio	Lower	Upper
122	100		
105	127.1	105.8	145.8
77	97.3	79.9	119.9



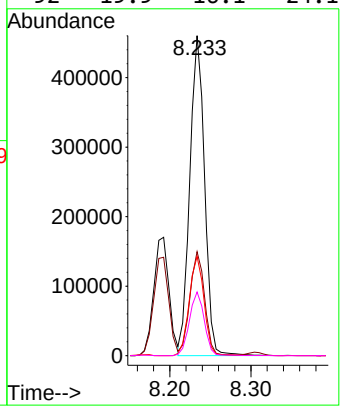


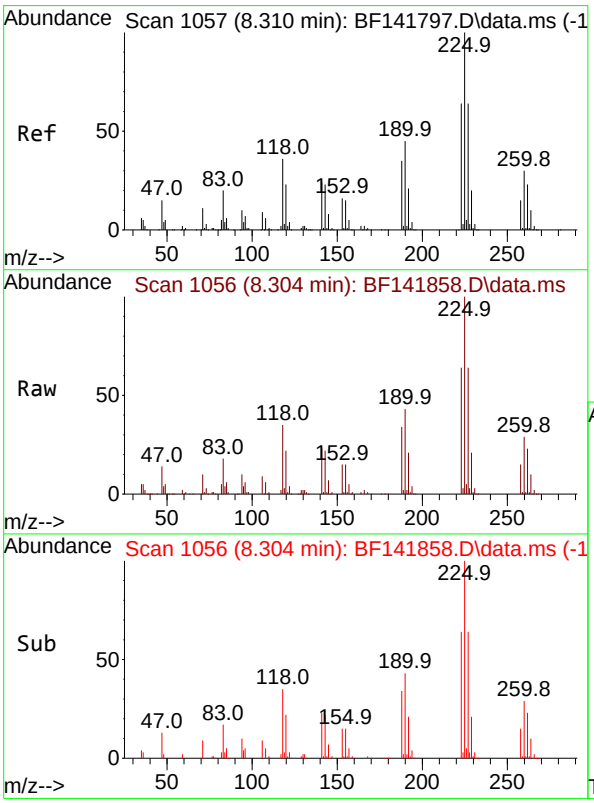
#33
4-Chloroaniline
Concen: 39.713 ng
RT: 8.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 583547

Ion	Ratio	Lower	Upper
127	100		
129	32.5	26.1	39.1
65	31.0	25.7	38.5
92	19.9	16.1	24.1

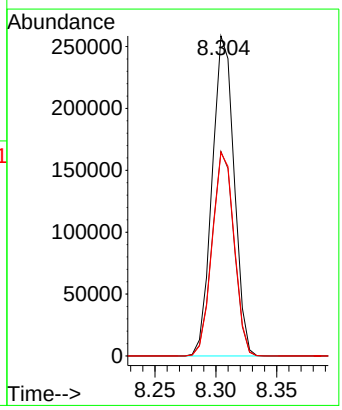


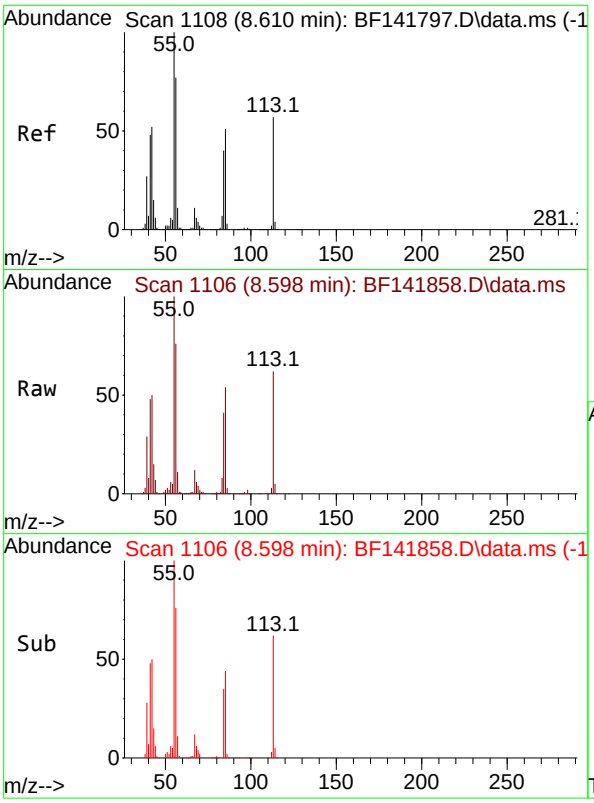


#34
Hexachlorobutadiene
Concen: 42.902 ng
RT: 8.304 min Scan# 1056
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:225 Resp: 324659

Ion	Ratio	Lower	Upper
225	100		
223	63.9	51.4	77.2
227	63.6	51.6	77.4



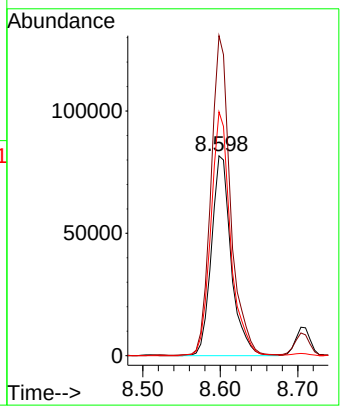


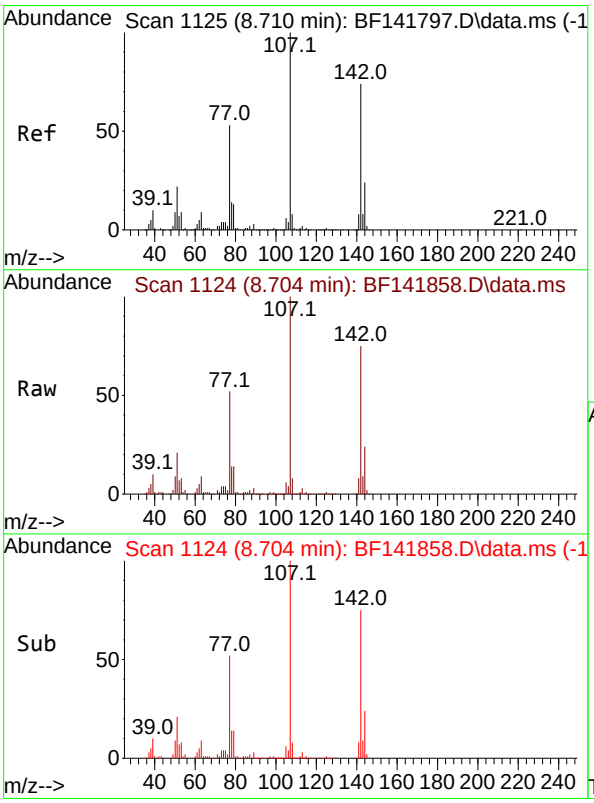
#35
Caprolactam
Concen: 42.235 ng
RT: 8.598 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 144396

Ion	Ratio	Lower	Upper
113	100		
55	160.1	155.6	195.6
56	122.0	114.6	154.6

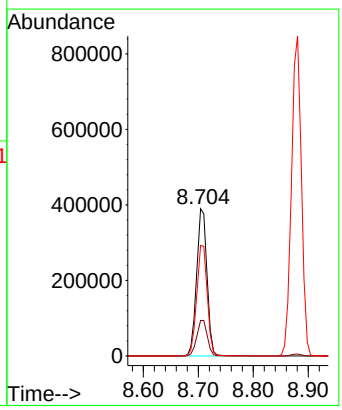


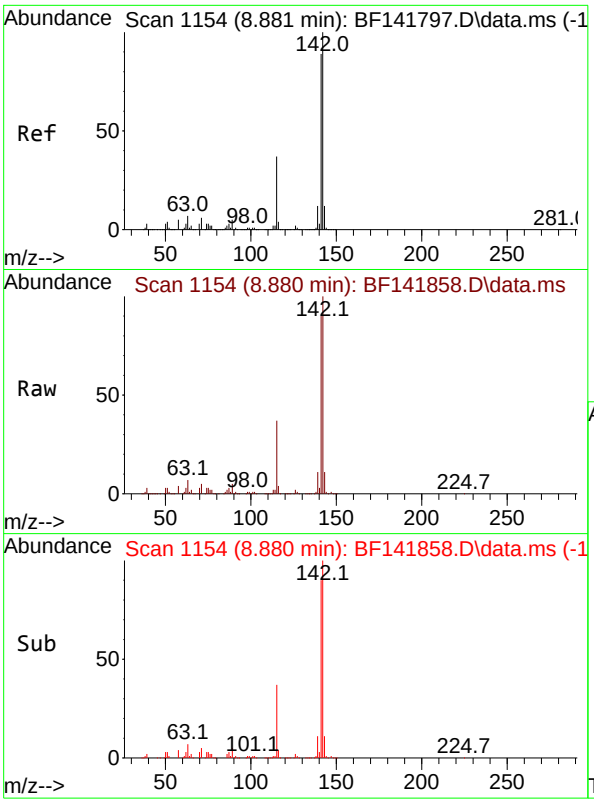


#36
4-Chloro-3-methylphenol
Concen: 41.661 ng
RT: 8.704 min Scan# 1124
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:107 Resp: 514325

Ion	Ratio	Lower	Upper
107	100		
144	24.1	19.4	29.0
142	75.1	59.4	89.0



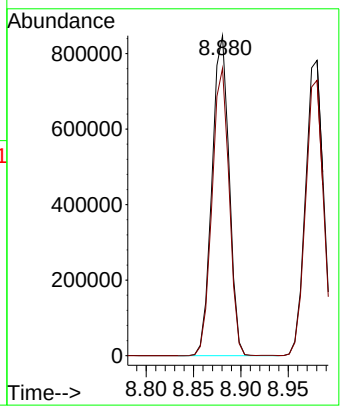


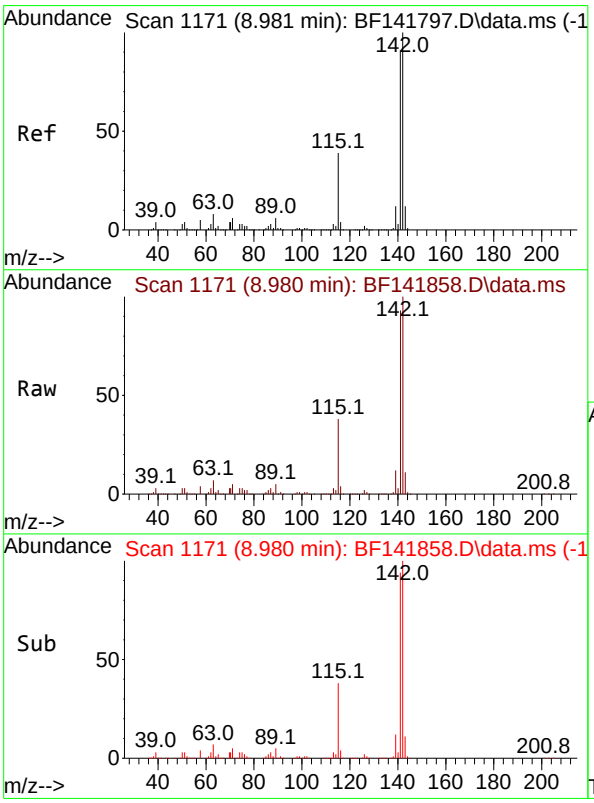
#37
2-Methylnaphthalene
Concen: 40.571 ng
RT: 8.880 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 1066438

Ion	Ratio	Lower	Upper
142	100		
141	89.8	71.1	106.7

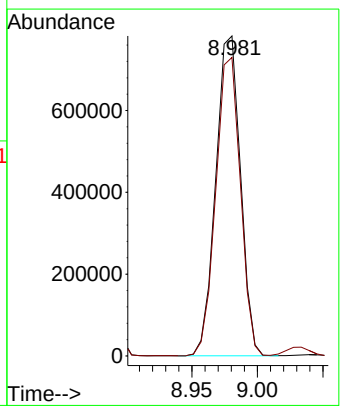


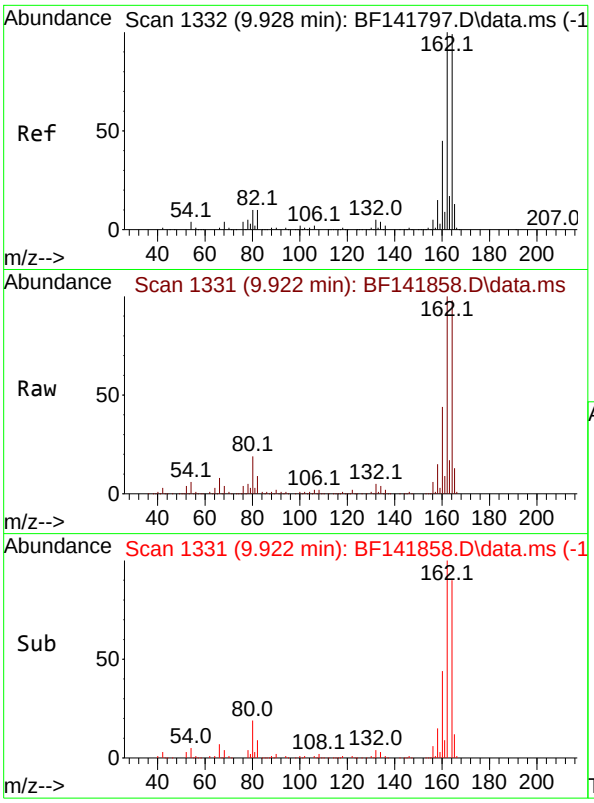


#38
1-Methylnaphthalene
Concen: 40.609 ng
RT: 8.980 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:142 Resp: 1024218

Ion	Ratio	Lower	Upper
142	100		
141	93.3	73.1	109.7



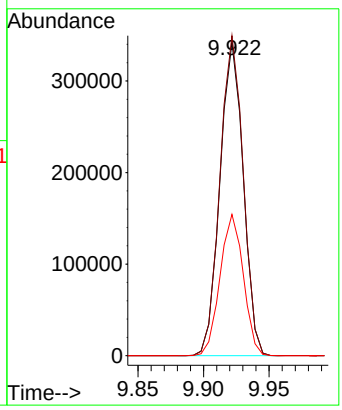


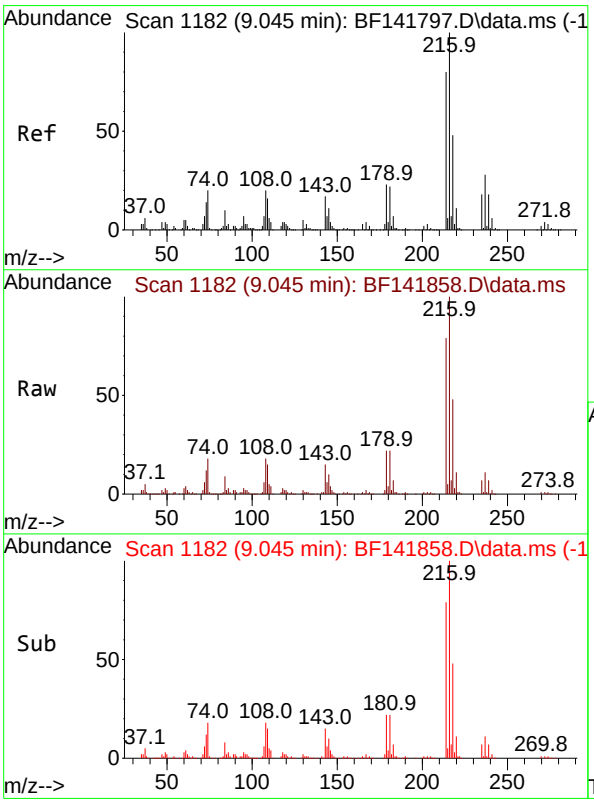
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 422269

Ion	Ratio	Lower	Upper
164	100		
162	102.2	80.6	120.8
160	45.1	36.3	54.5

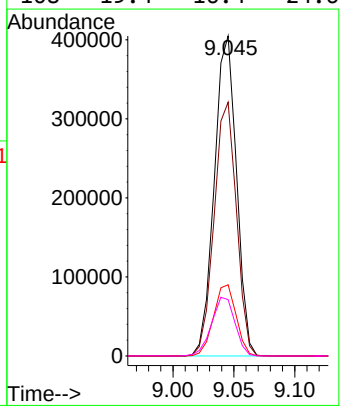


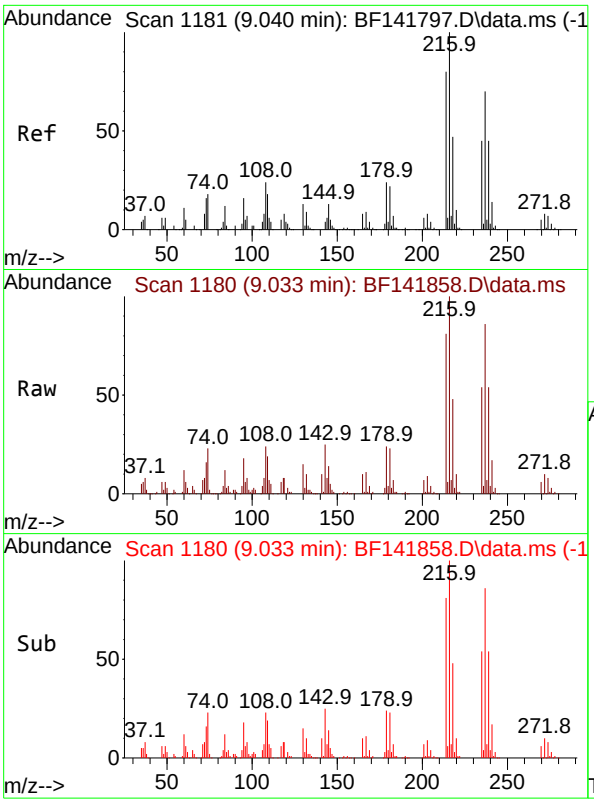


#40
1,2,4,5-Tetrachlorobenzene
Concen: 42.066 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:216 Resp: 513015

Ion	Ratio	Lower	Upper
216	100		
214	79.6	63.5	95.3
179	22.6	18.1	27.1
108	19.4	16.4	24.6



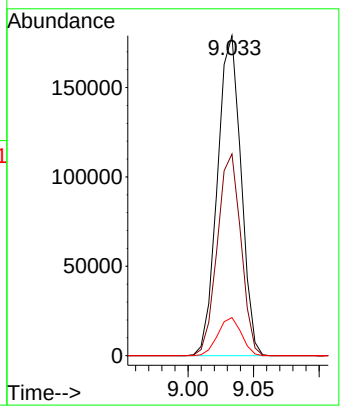


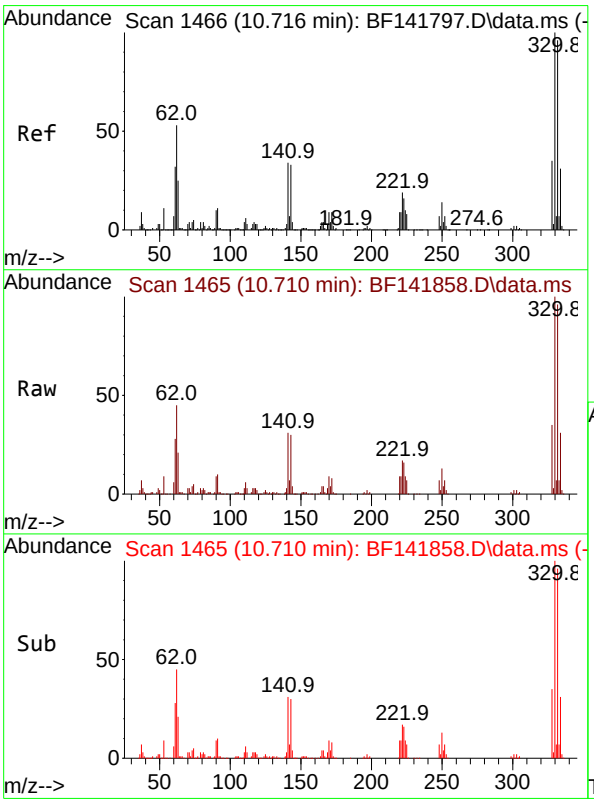
#41
Hexachlorocyclopentadiene
Concen: 44.067 ng
RT: 9.033 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 224284

Ion	Ratio	Lower	Upper
237	100		
235	63.0	43.3	83.3
272	11.9	0.0	31.9

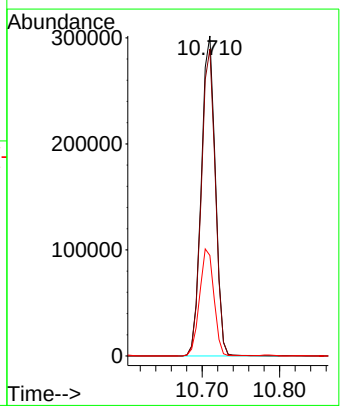


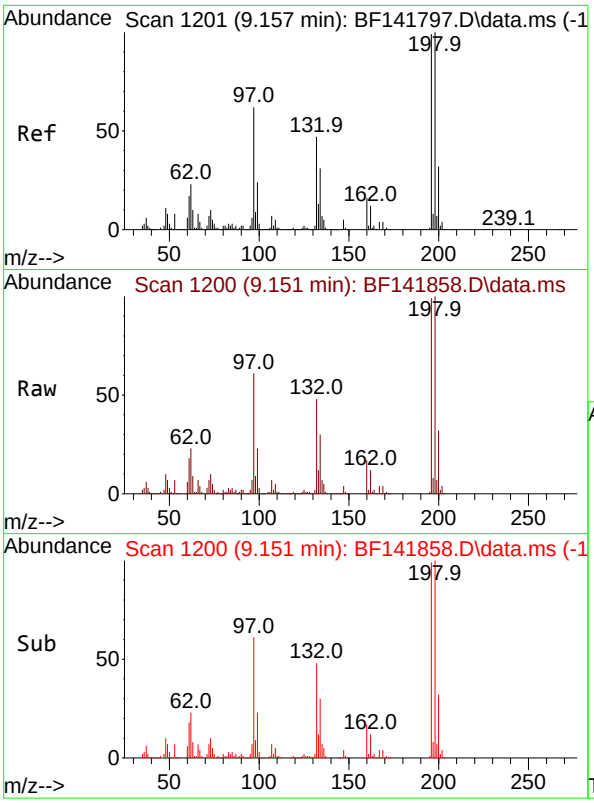


#42
2,4,6-Tribromophenol
Concen: 95.540 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:330 Resp: 378753

Ion	Ratio	Lower	Upper
330	100		
332	96.1	76.6	115.0
141	34.3	29.0	43.4



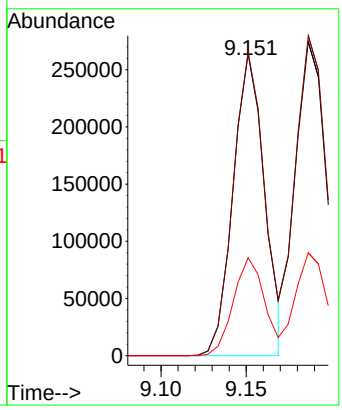


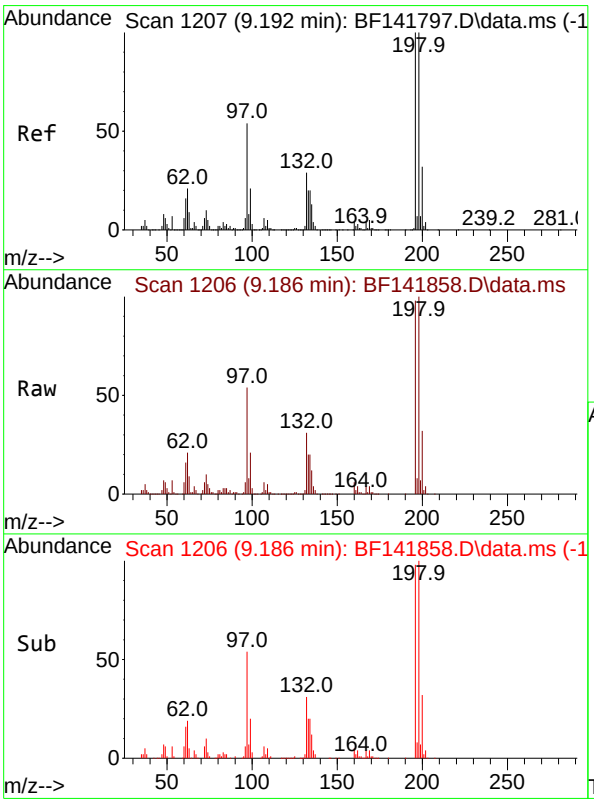
#43
2,4,6-Trichlorophenol
Concen: 42.772 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 336951

Ion	Ratio	Lower	Upper
196	100		
198	100.7	80.4	120.6
200	32.4	25.7	38.5

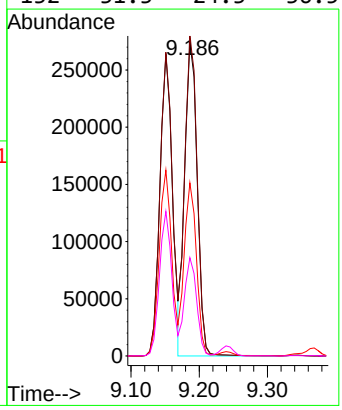


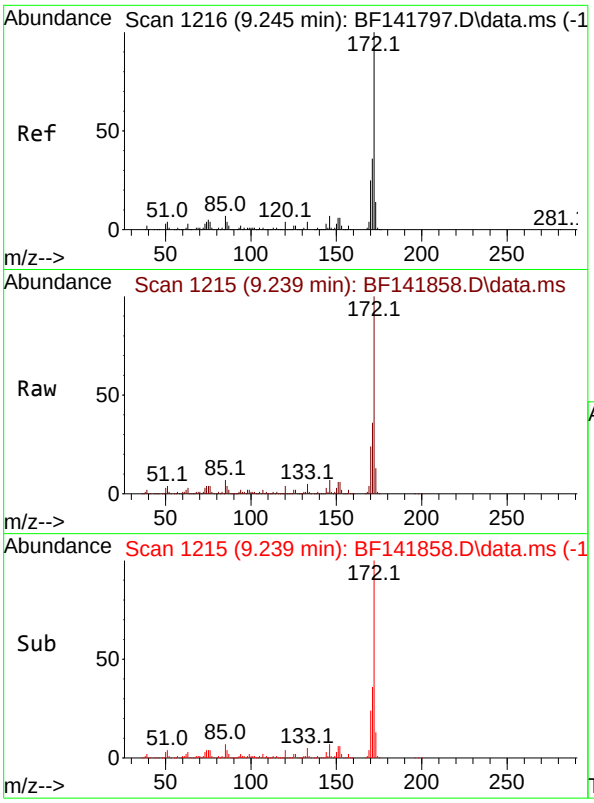


#44
2,4,5-Trichlorophenol
Concen: 44.739 ng
RT: 9.186 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:196 Resp: 349000

Ion	Ratio	Lower	Upper
196	100		
198	101.9	79.7	119.5
97	55.1	44.2	66.2
132	31.3	24.3	36.5



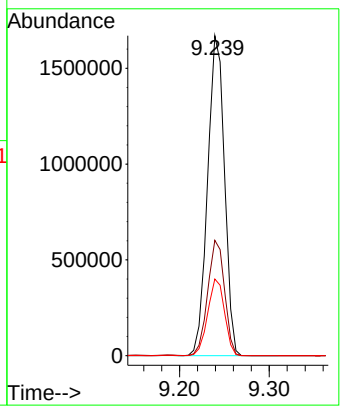


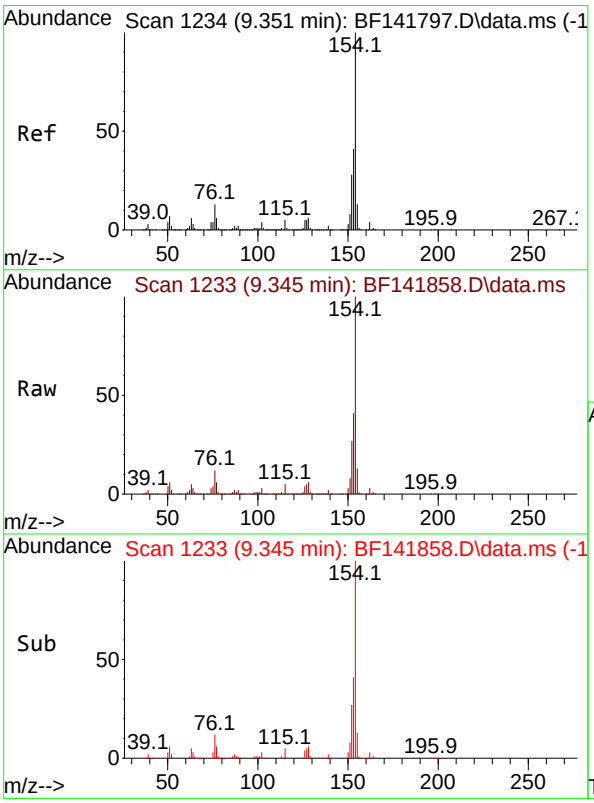
#45
2-Fluorobiphenyl
Concen: 82.849 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 2181831

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.2	43.8
170	24.0	19.7	29.5

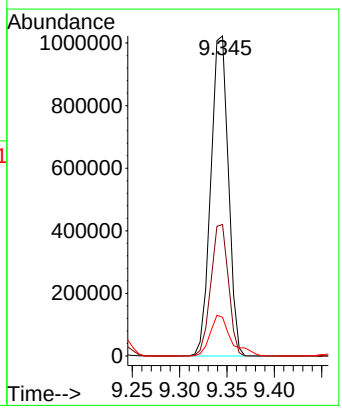


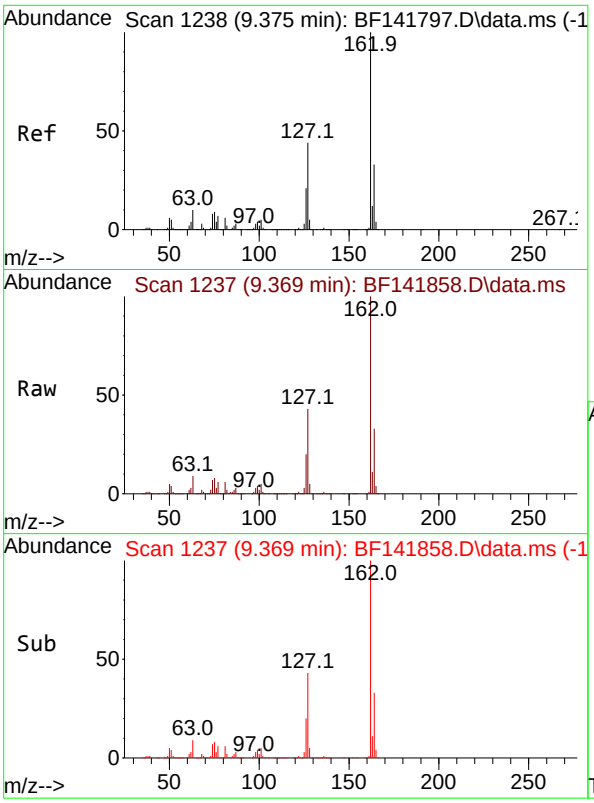


#46
1,1'-Biphenyl
Concen: 40.994 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:154 Resp: 1317612

Ion	Ratio	Lower	Upper
154	100		
153	41.1	21.4	61.4
76	12.1	0.0	33.4



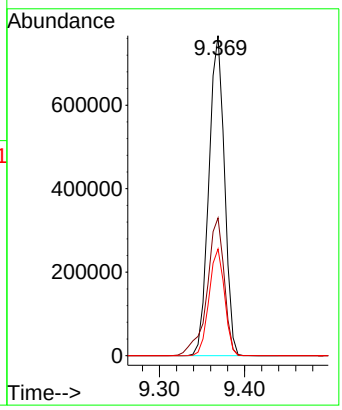


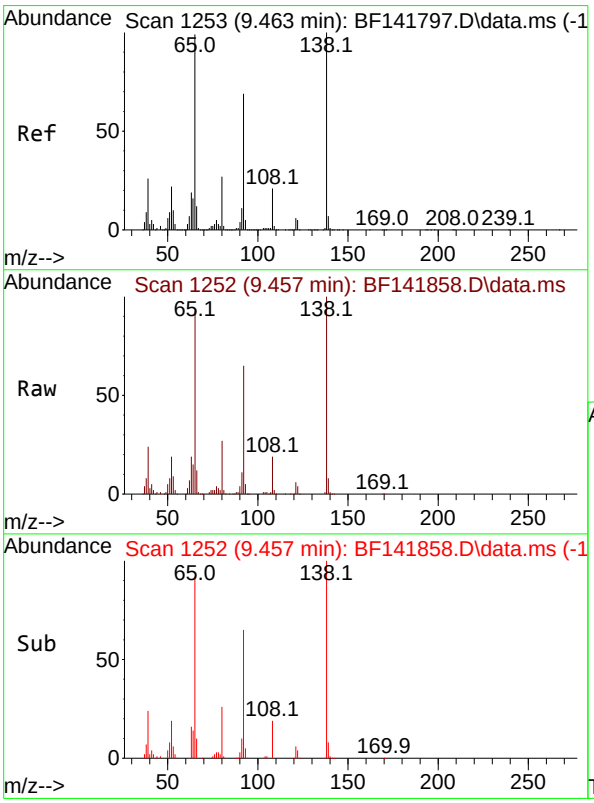
#47
2-Chloronaphthalene
Concen: 41.199 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 977366

Ion	Ratio	Lower	Upper
162	100		
127	43.1	35.0	52.6
164	33.4	26.6	40.0

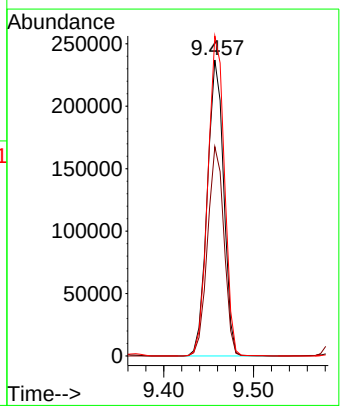


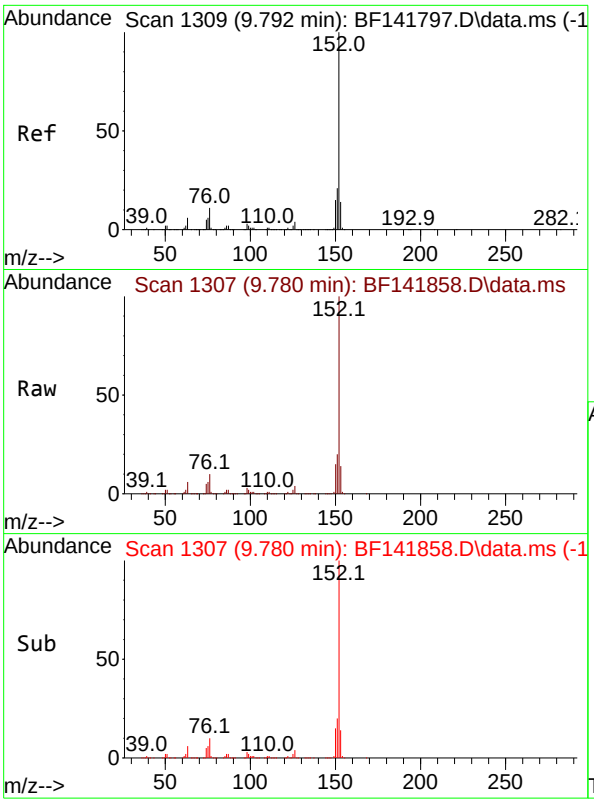


#48
2-Nitroaniline
Concen: 46.508 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 65 Resp: 301038

Ion	Ratio	Lower	Upper
65	100		
92	70.7	55.7	83.5
138	108.1	80.6	121.0



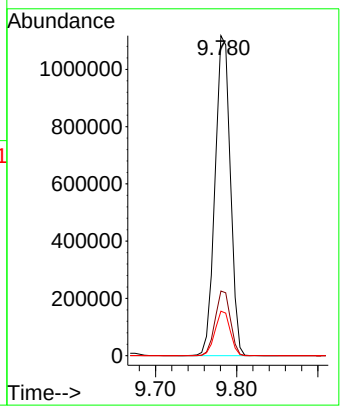


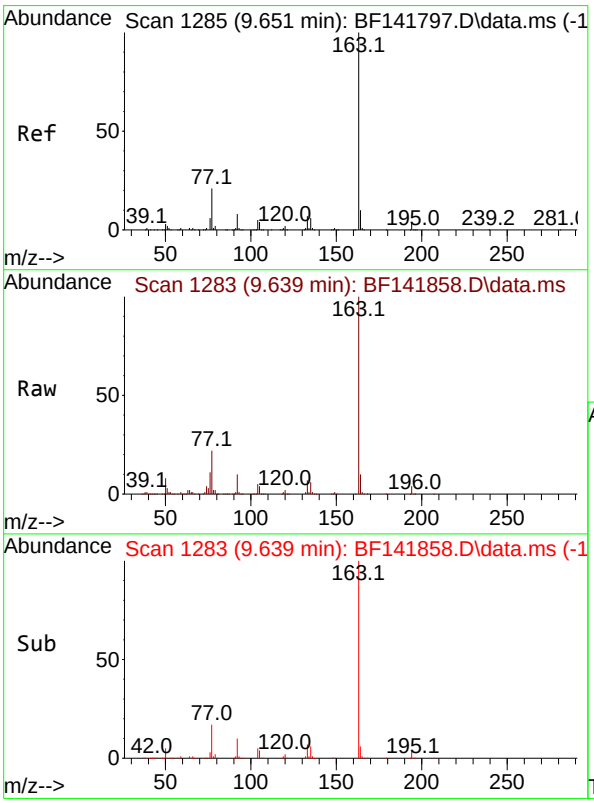
#49
Acenaphthylene
Concen: 41.204 ng
RT: 9.780 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 1465550

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.6	24.8
153	13.9	11.2	16.8

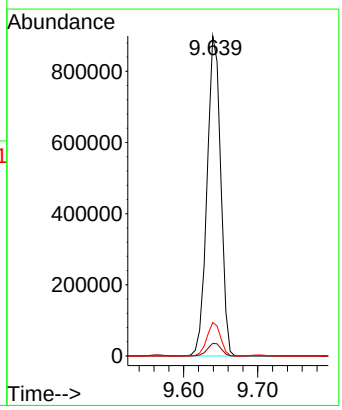


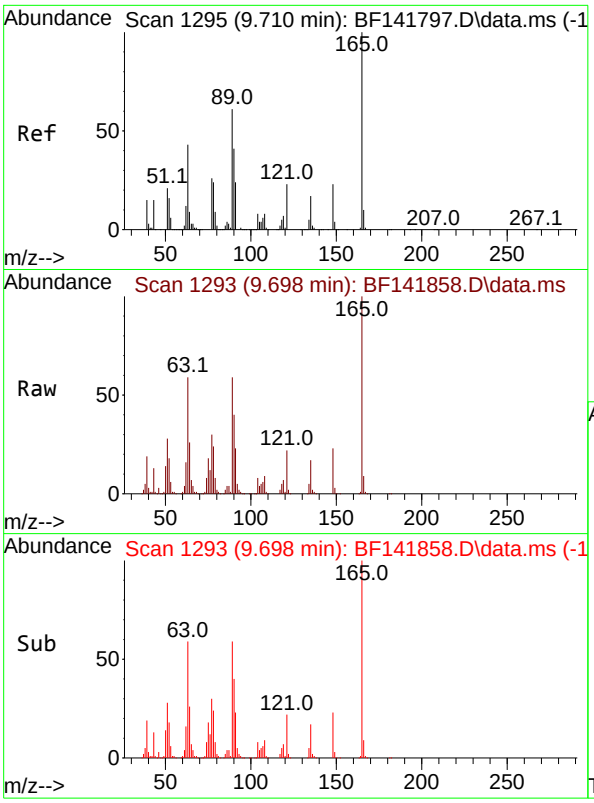


#50
Dimethylphthalate
Concen: 40.693 ng
RT: 9.639 min Scan# 1283
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:163 Resp: 1150740

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.5	8.4	12.6



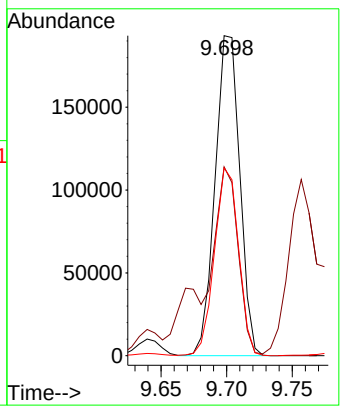


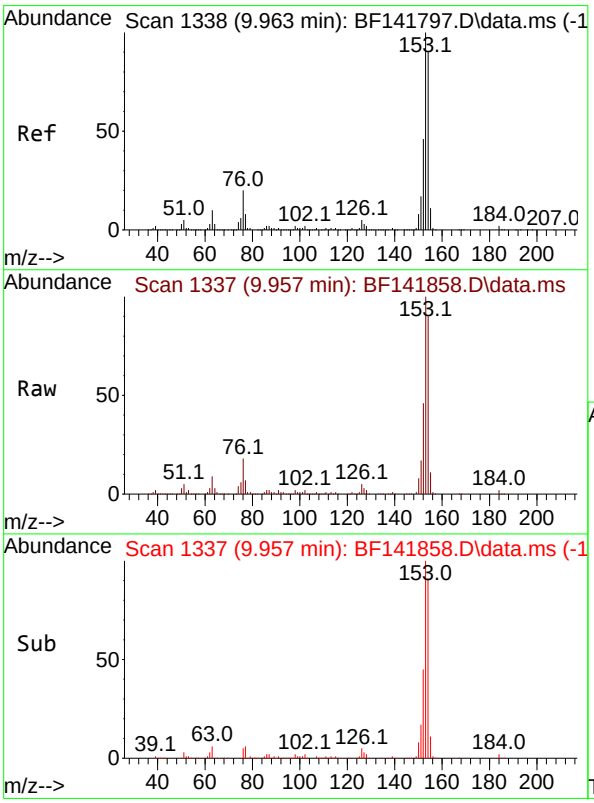
#51
2,6-Dinitrotoluene
Concen: 46.842 ng
RT: 9.698 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 253007

Ion	Ratio	Lower	Upper
165	100		
63	59.0	49.5	74.3
89	58.7	49.0	73.4

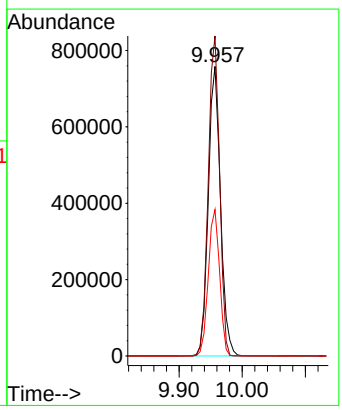


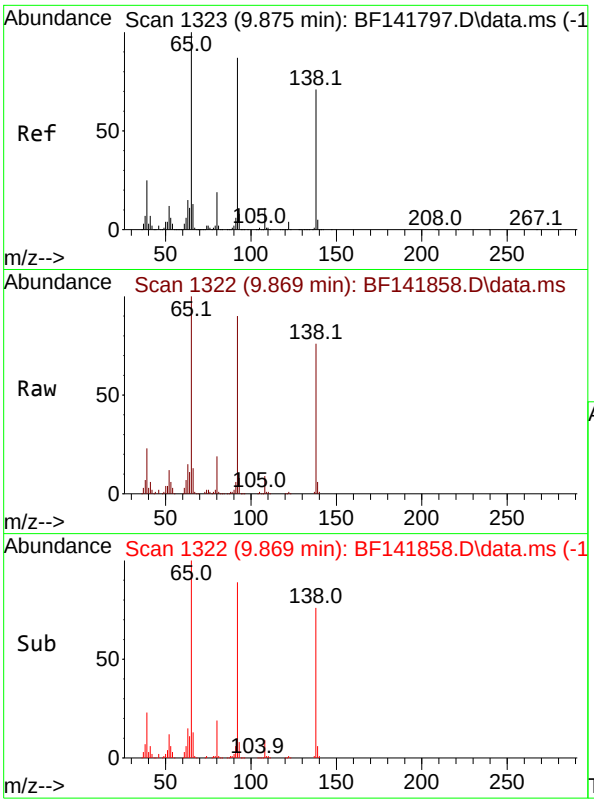


#52
Acenaphthene
Concen: 42.527 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:154 Resp: 1020635

Ion	Ratio	Lower	Upper
154	100		
153	110.5	88.7	133.1
152	50.5	40.9	61.3



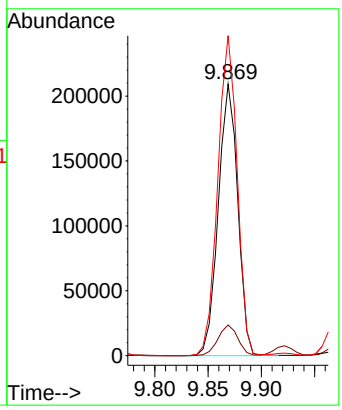


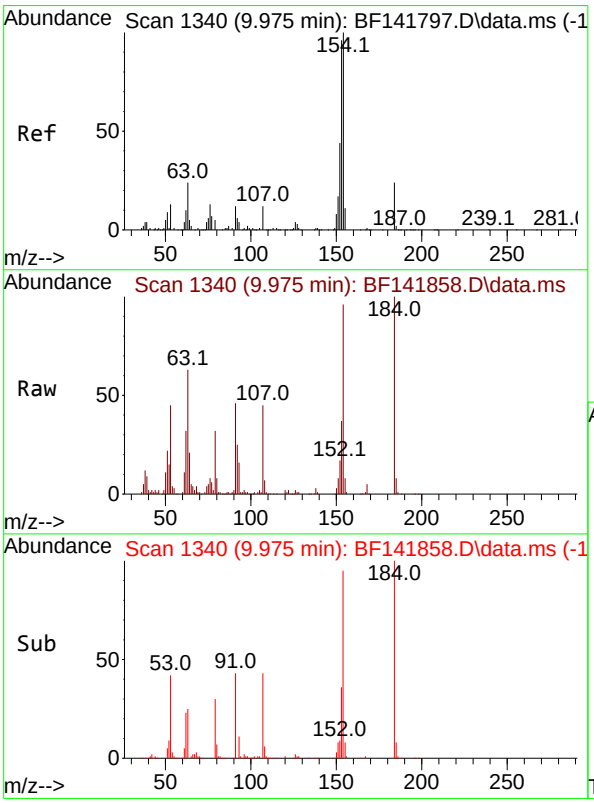
#53
3-Nitroaniline
Concen: 46.137 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 265149

Ion	Ratio	Lower	Upper
138	100		
108	11.3	12.7	19.1#
92	117.8	97.9	146.9

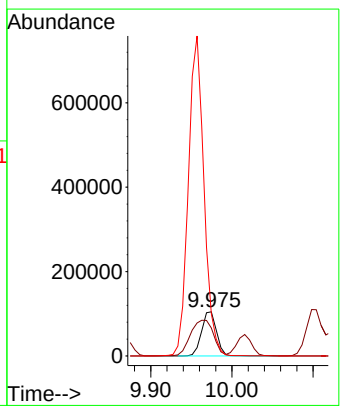


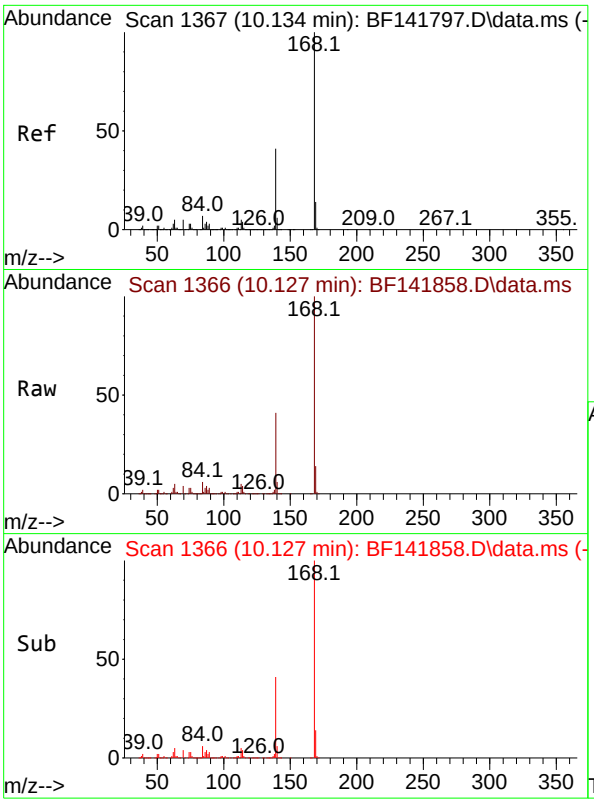


#54
2,4-Dinitrophenol
Concen: 59.722 ng
RT: 9.975 min Scan# 1340
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:184 Resp: 134035

Ion	Ratio	Lower	Upper
184	100		
63	63.5	79.0	118.6#
154	95.7	335.8	503.8#



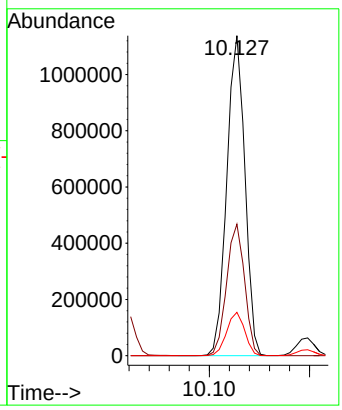


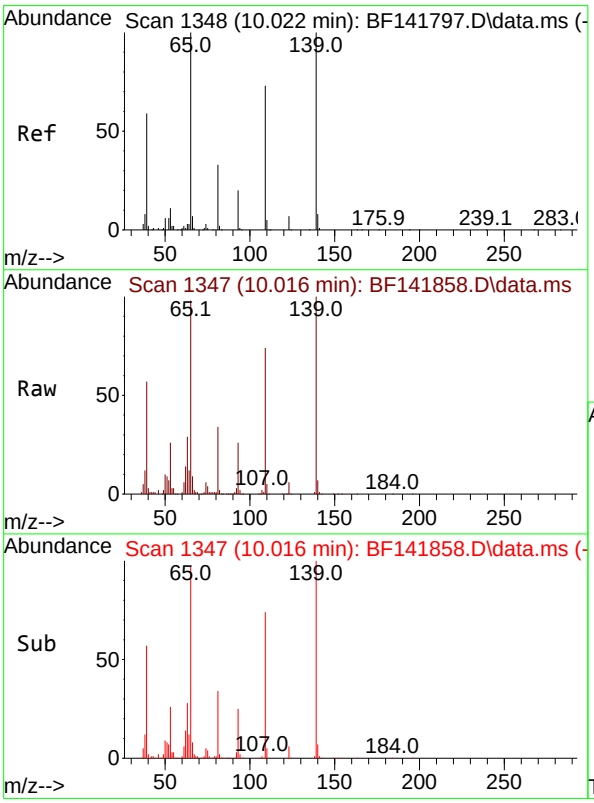
#55
Dibenzofuran
Concen: 40.671 ng
RT: 10.127 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 1420674

Ion	Ratio	Lower	Upper
168	100		
139	41.1	32.9	49.3
169	13.5	11.1	16.7

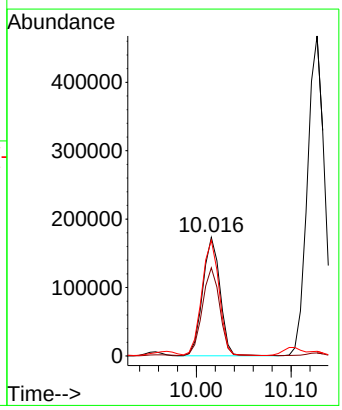


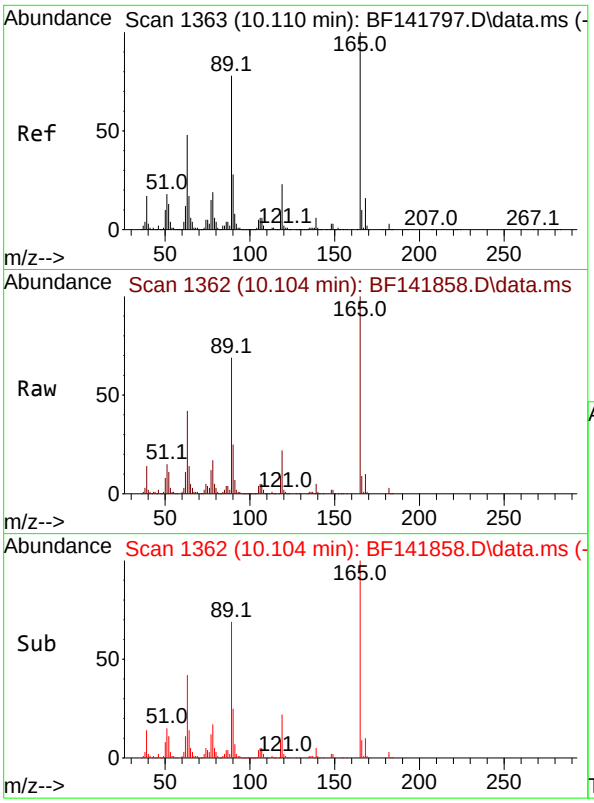


#56
4-Nitrophenol
Concen: 52.954 ng
RT: 10.016 min Scan# 1347
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:139 Resp: 221169

Ion	Ratio	Lower	Upper
139	100		
109	74.4	53.4	93.4
65	97.6	82.1	122.1



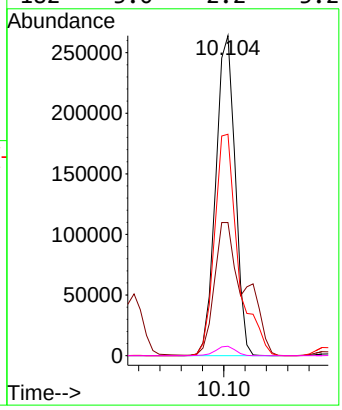


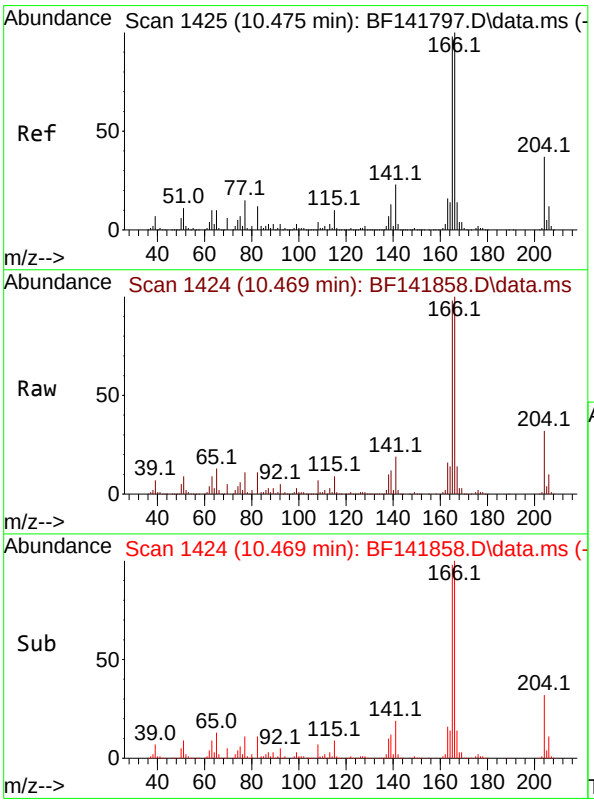
#57
2,4-Dinitrotoluene
Concen: 50.419 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 334417

Ion	Ratio	Lower	Upper
165	100		
63	41.6	38.8	58.2
89	69.2	62.6	94.0
182	3.0	2.2	3.2

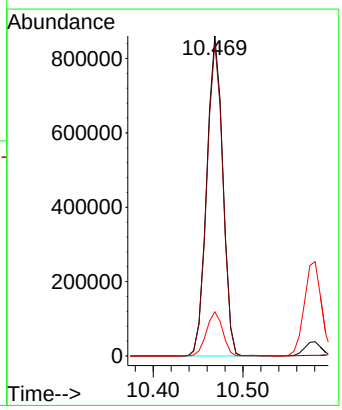


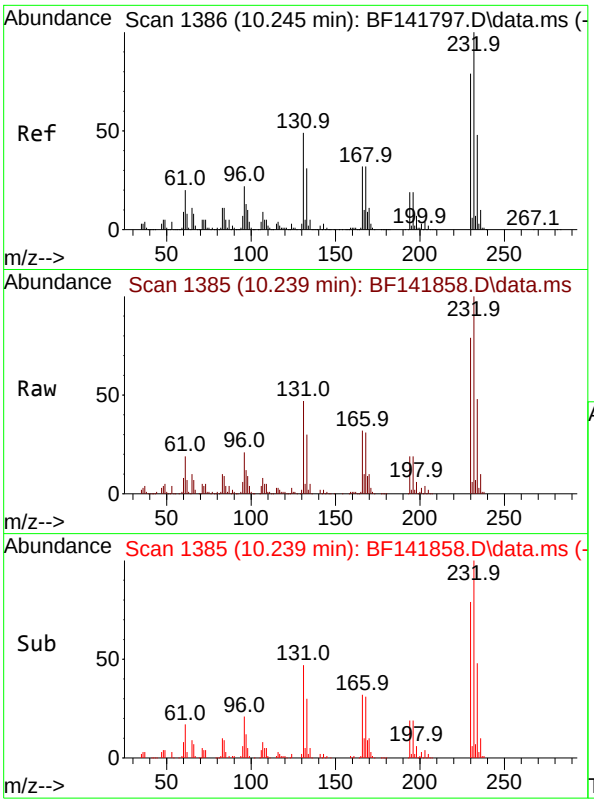


#58
Fluorene
Concen: 41.003 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:166 Resp: 1072855

Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.6	117.8
167	13.8	11.0	16.4



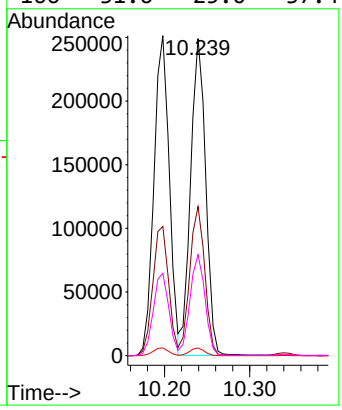


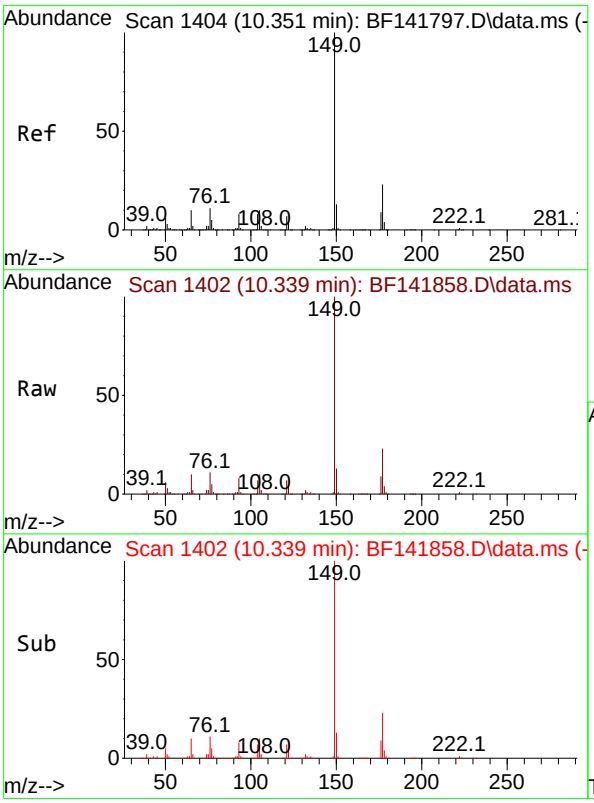
#59
2,3,4,6-Tetrachlorophenol
Concen: 45.123 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 306137

Ion	Ratio	Lower	Upper
232	100		
131	47.1	37.8	56.8
130	2.4	2.0	3.0
166	31.6	25.0	37.4

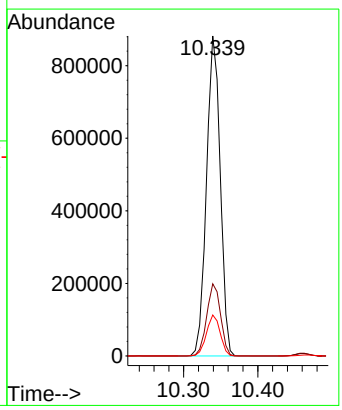


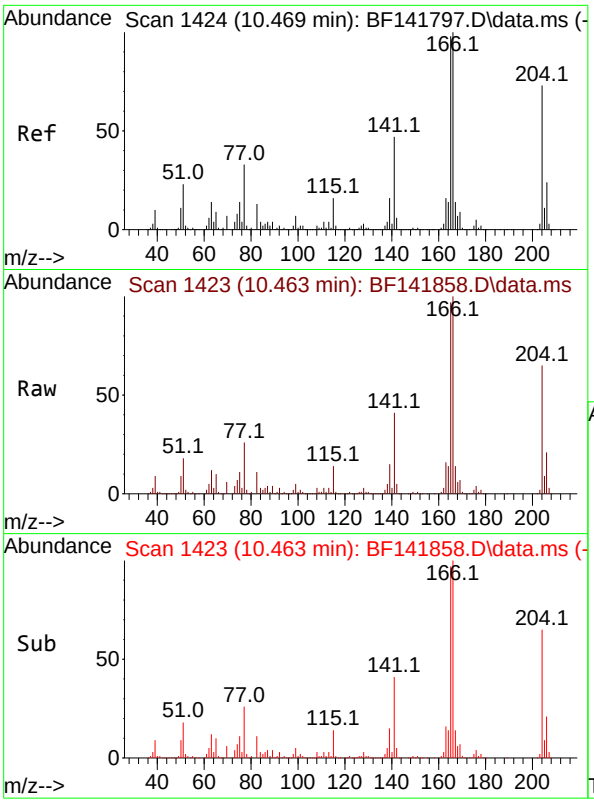


#60
Diethylphthalate
Concen: 40.052 ng
RT: 10.339 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:149 Resp: 1135424

Ion	Ratio	Lower	Upper
149	100		
177	22.5	18.3	27.5
150	12.8	10.3	15.5



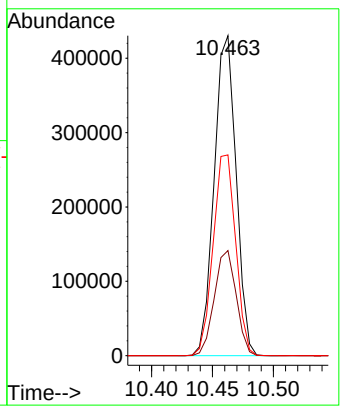


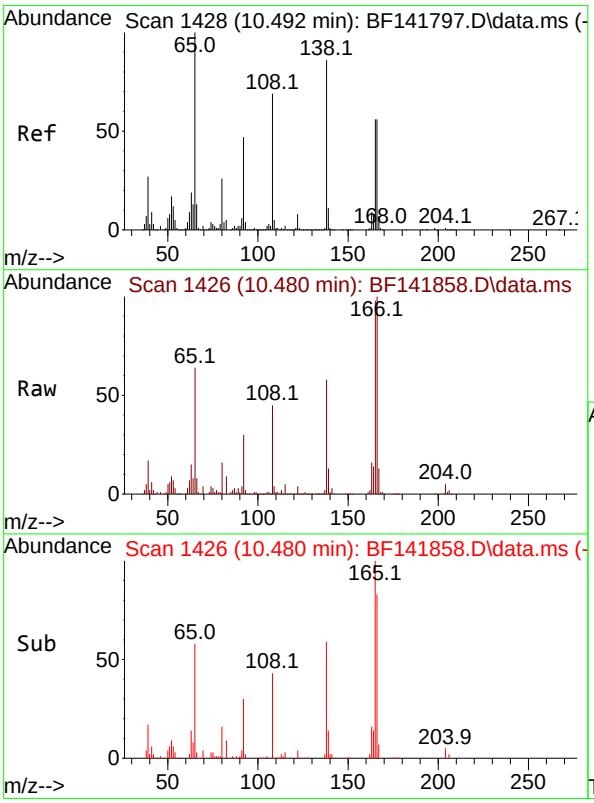
#61
4-Chlorophenyl-phenylether
Concen: 41.246 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 540721

Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.2	39.4
141	62.8	51.7	77.5

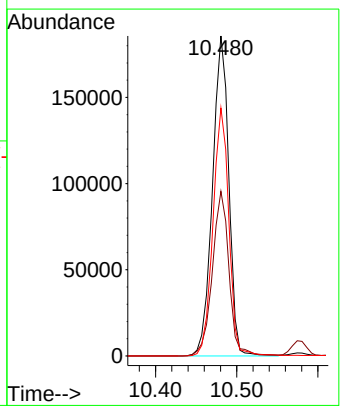


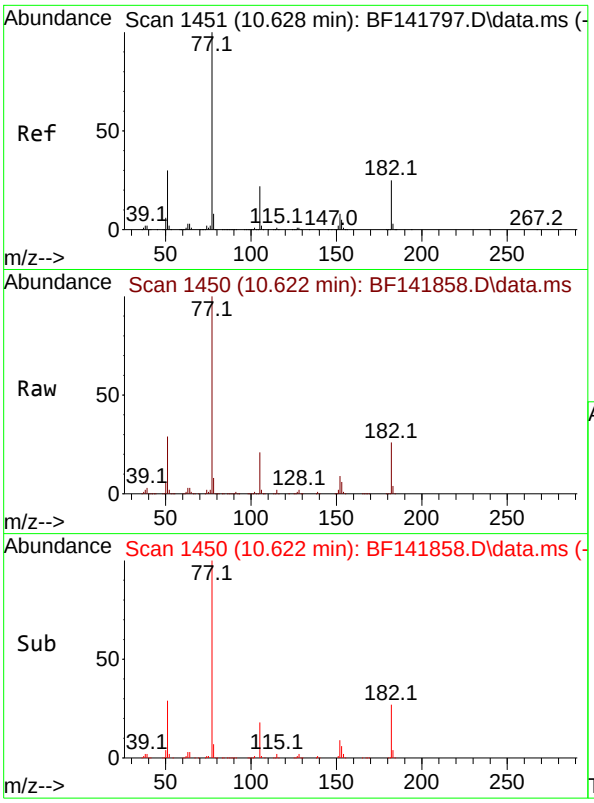


#62
4-Nitroaniline
Concen: 53.688 ng
RT: 10.480 min Scan# 1426
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:138 Resp: 259275

Ion	Ratio	Lower	Upper
138	100		
92	51.4	34.9	74.9
108	77.5	59.6	99.6



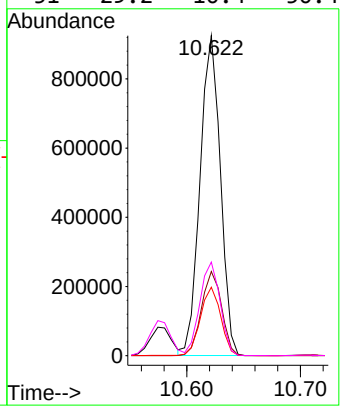


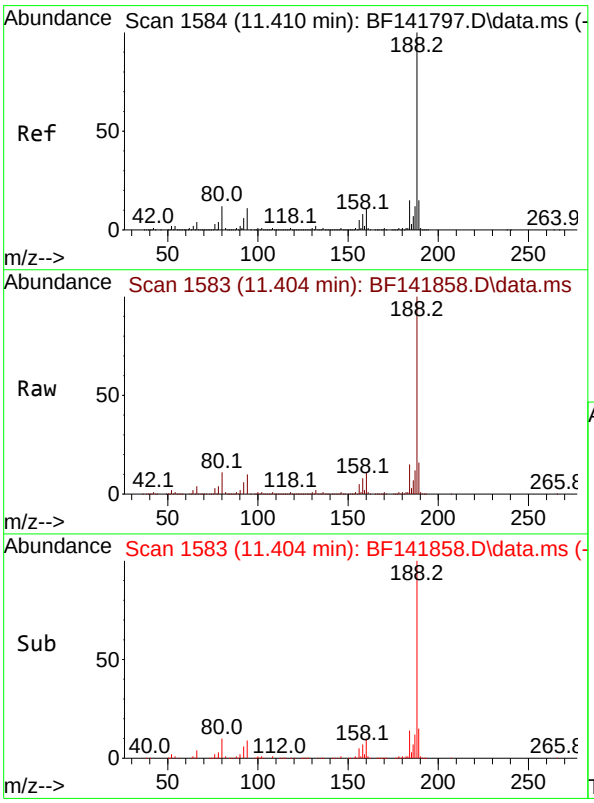
#63
Azobenzene
Concen: 38.422 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 1146863

Ion	Ratio	Lower	Upper
77	100		
182	26.3	4.2	44.2
105	21.4	1.5	41.5
51	29.2	10.4	50.4

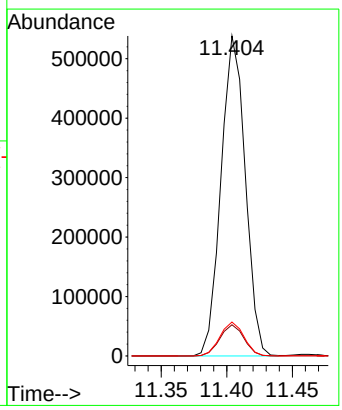


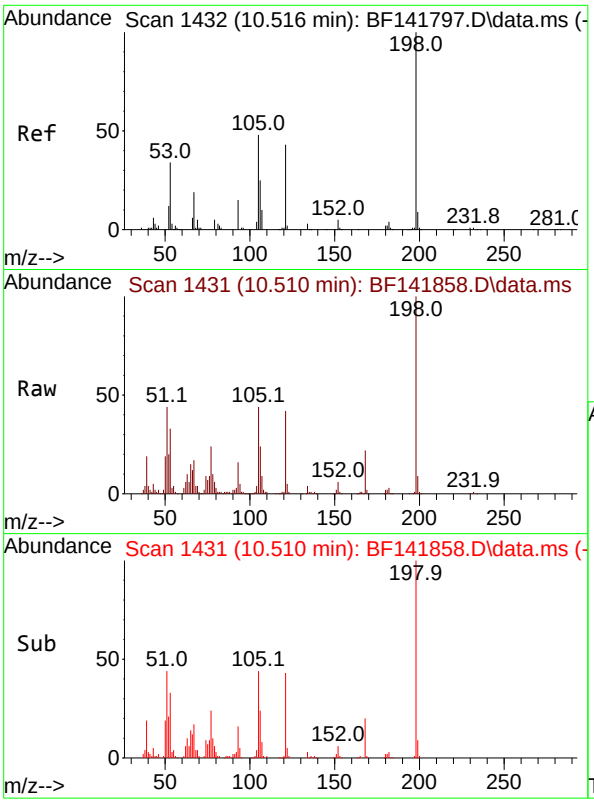


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:188 Resp: 691934

Ion	Ratio	Lower	Upper
188	100		
94	9.8	8.9	13.3
80	10.6	9.7	14.5



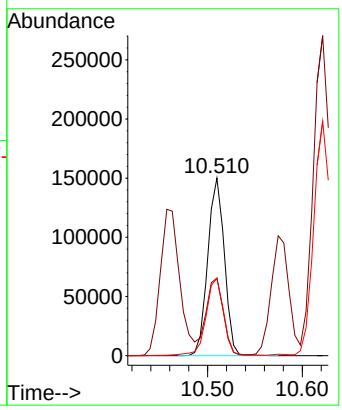


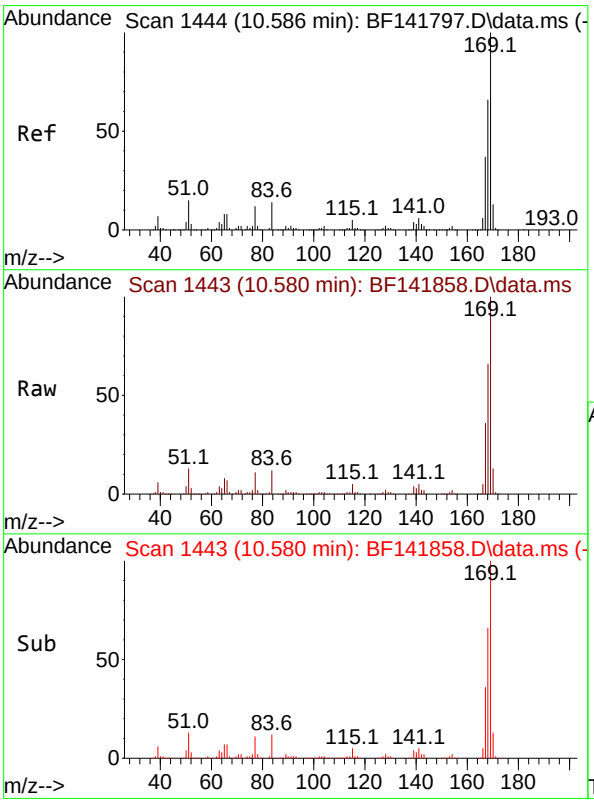
#65
4,6-Dinitro-2-methylphenol
Concen: 54.694 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 182658

Ion	Ratio	Lower	Upper
198	100		
51	43.7	32.1	72.1
105	43.6	28.5	68.5

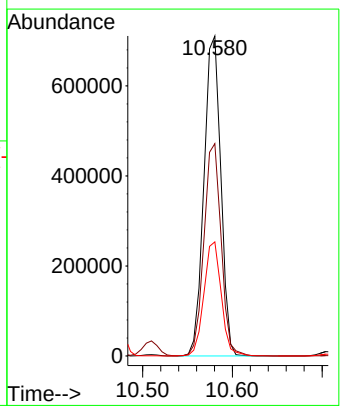


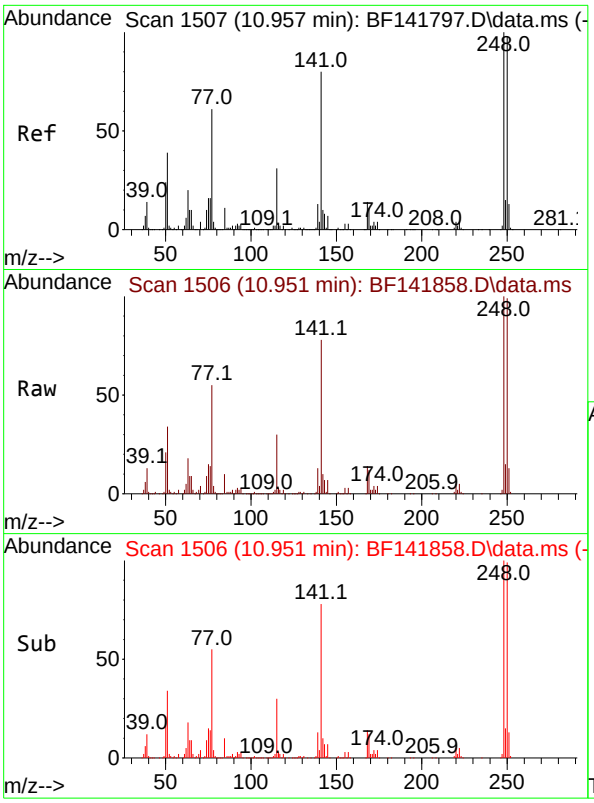


#66
n-Nitrosodiphenylamine
Concen: 40.832 ng
RT: 10.580 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:169 Resp: 927726

Ion	Ratio	Lower	Upper
169	100		
168	66.4	53.0	79.6
167	35.7	29.3	43.9



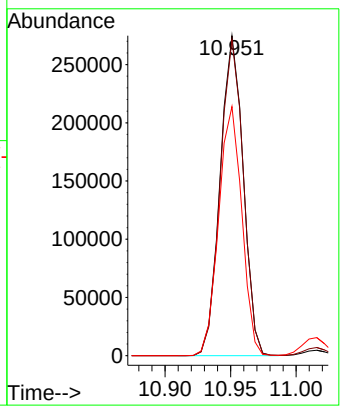


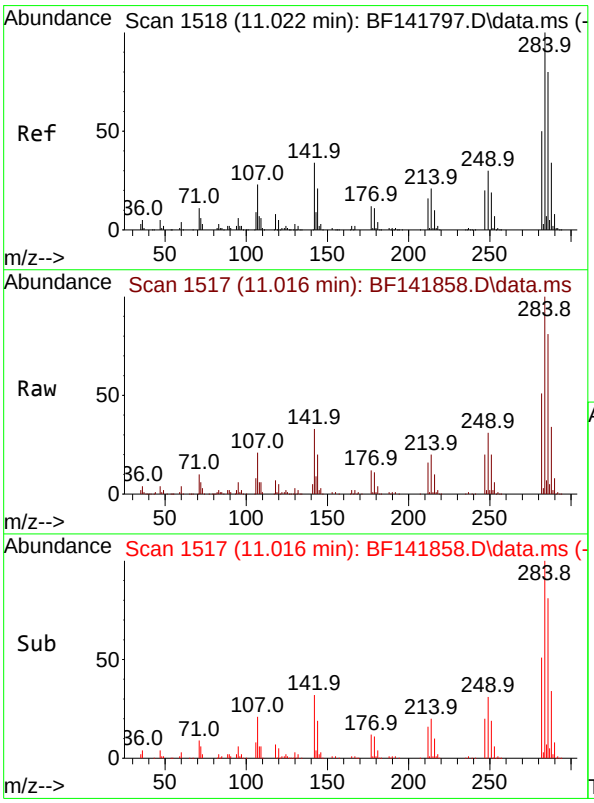
#67
4-Bromophenyl-phenylether
Concen: 41.606 ng
RT: 10.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 336262

Ion	Ratio	Lower	Upper
248	100		
250	98.8	78.1	117.1
141	77.9	64.3	96.5

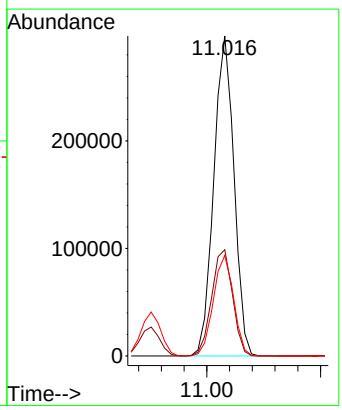


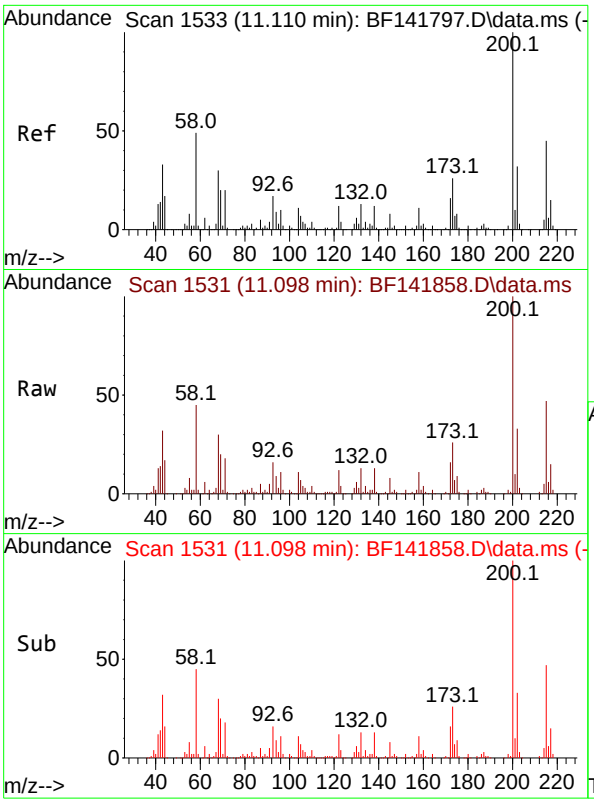


#68
Hexachlorobenzene
Concen: 43.090 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:284 Resp: 367747

Ion	Ratio	Lower	Upper
284	100		
142	33.2	28.2	42.2
249	31.4	25.5	38.3



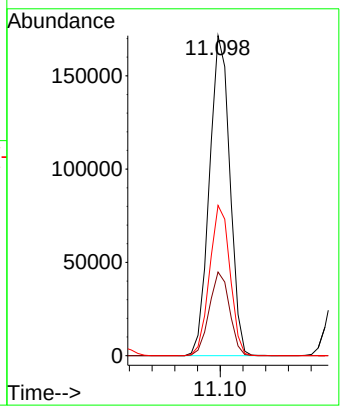


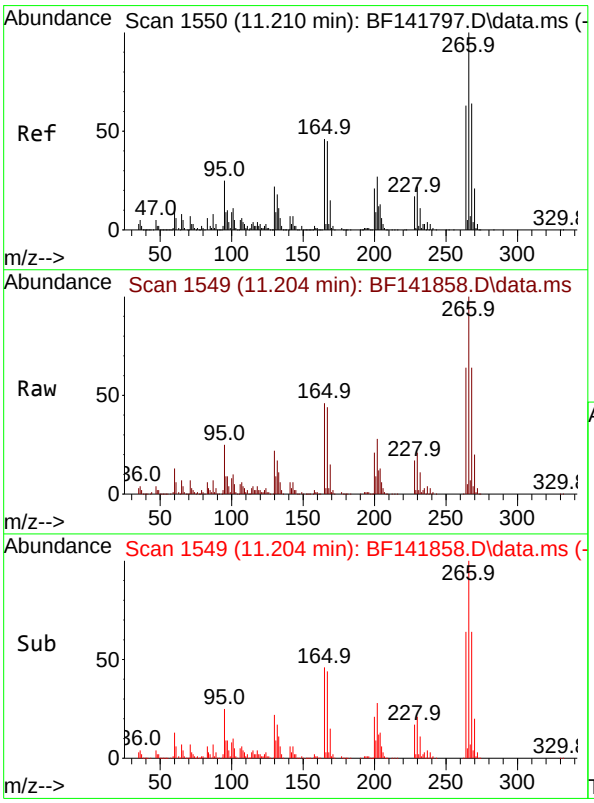
#69
Atrazine
Concen: 34.313 ng
RT: 11.098 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 214392

Ion	Ratio	Lower	Upper
200	100		
173	26.2	5.6	45.6
215	47.0	25.3	65.3

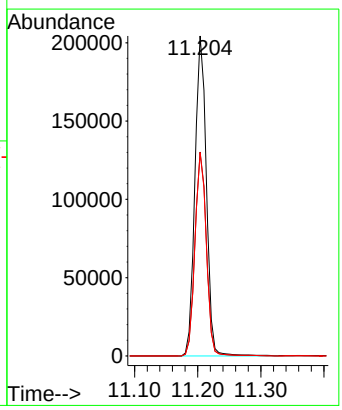


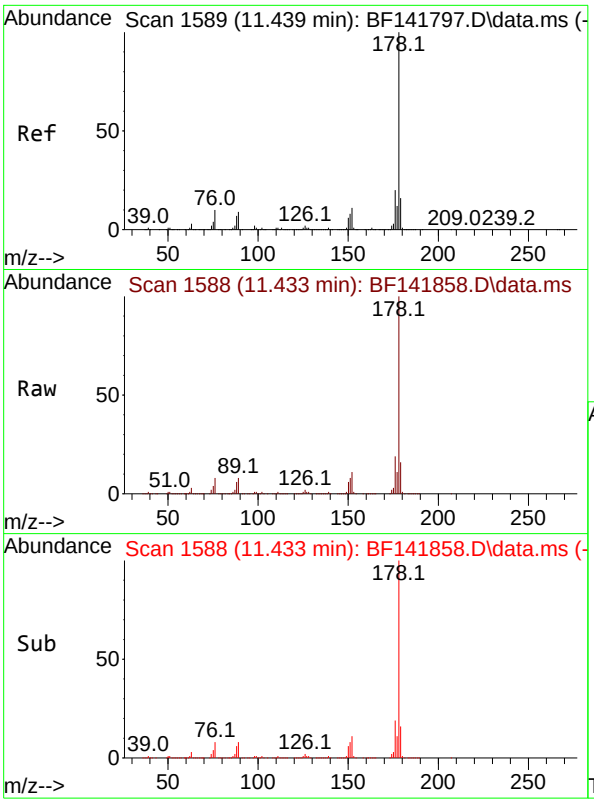


#70
Pentachlorophenol
Concen: 47.434 ng
RT: 11.204 min Scan# 1549
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:266 Resp: 256754

Ion	Ratio	Lower	Upper
266	100		
268	63.8	50.9	76.3
264	63.5	50.2	75.4



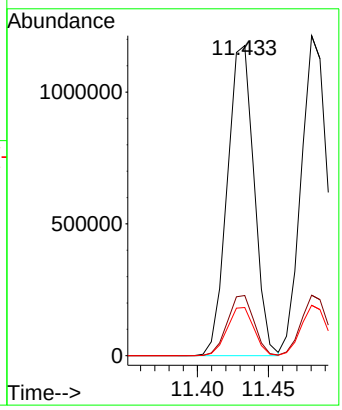


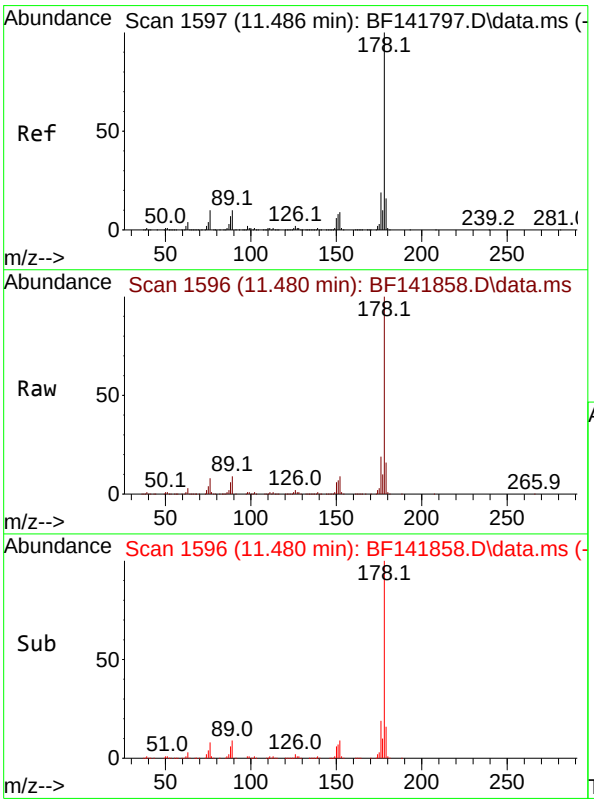
#71
Phenanthrene
Concen: 41.677 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 1542542

Ion	Ratio	Lower	Upper
178	100		
176	19.4	16.0	24.0
179	15.6	12.6	19.0

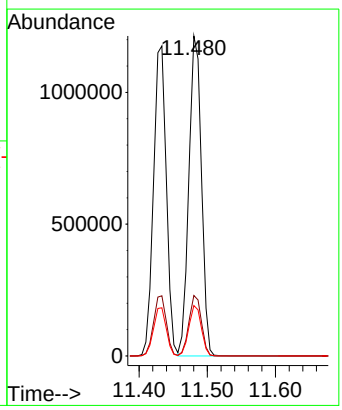


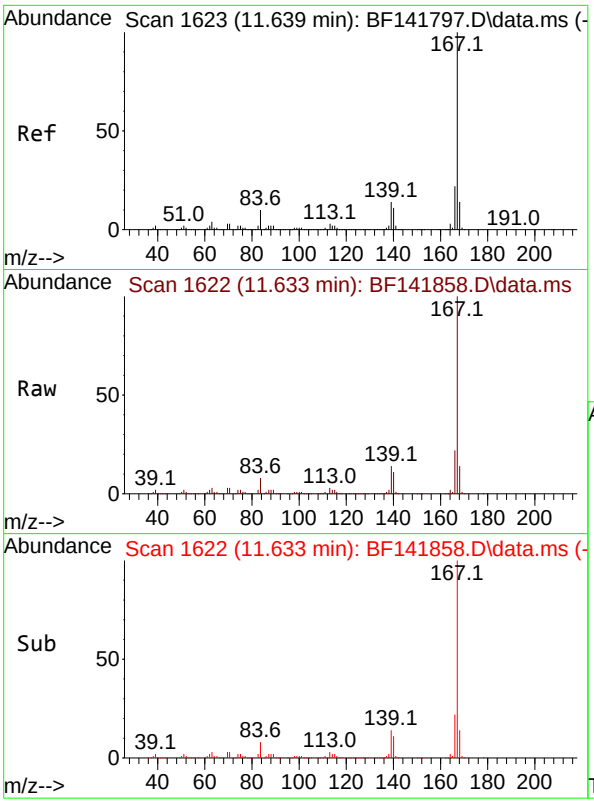


#72
Anthracene
Concen: 41.580 ng
RT: 11.480 min Scan# 1596
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:178 Resp: 1542354

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.0
179	15.8	12.8	19.2



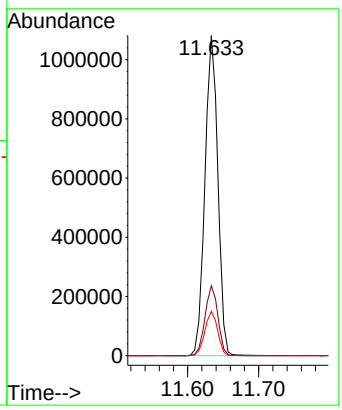


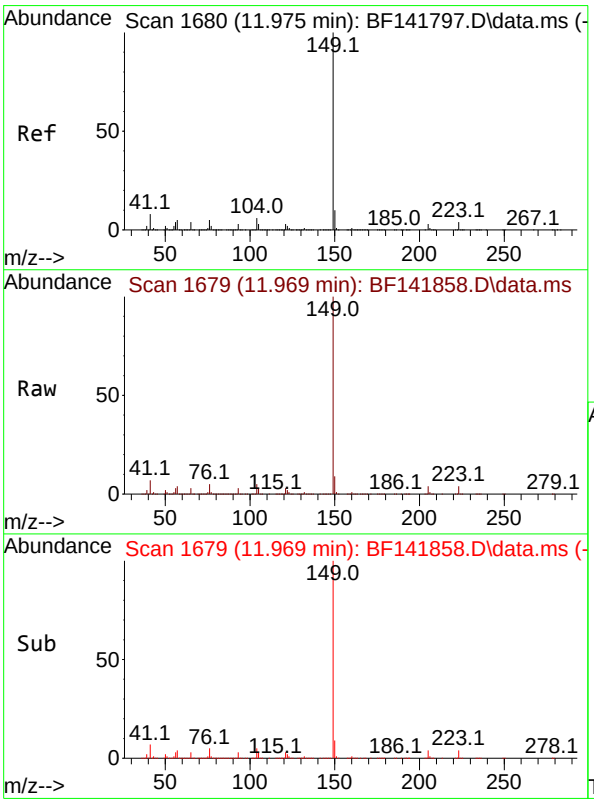
#73
Carbazole
Concen: 41.751 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 1367611

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.5	26.3
139	13.8	11.3	16.9

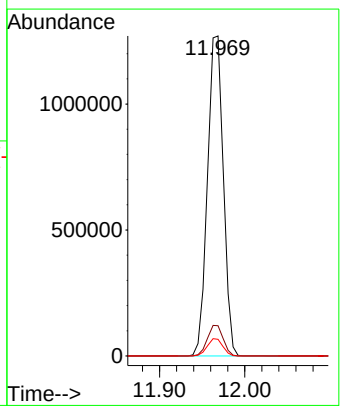


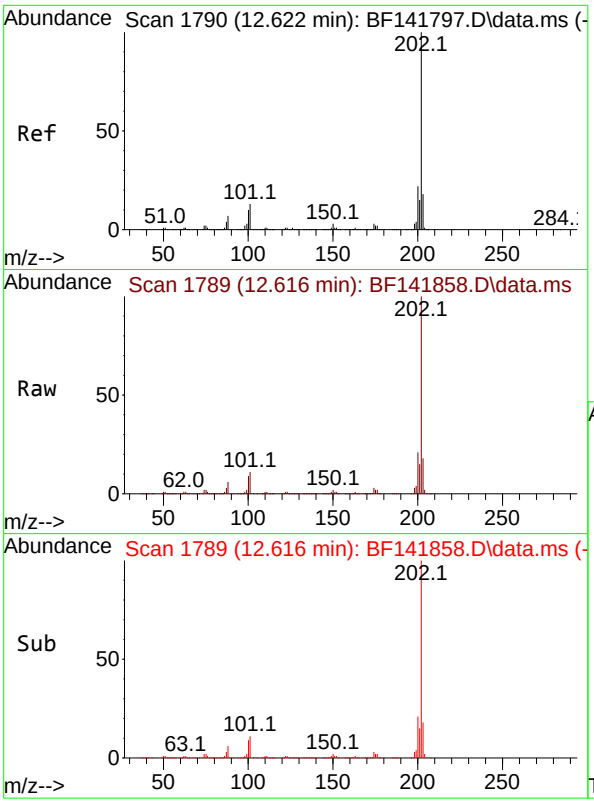


#74
Di-n-butylphthalate
Concen: 39.592 ng
RT: 11.969 min Scan# 1679
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:149 Resp: 1643939

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.7	11.5
104	5.2	4.4	6.6



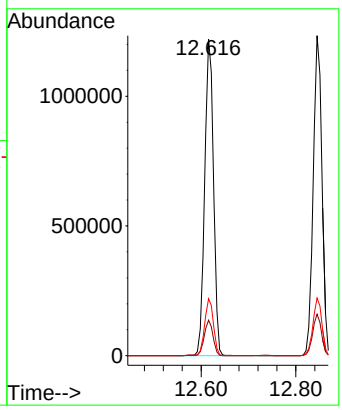


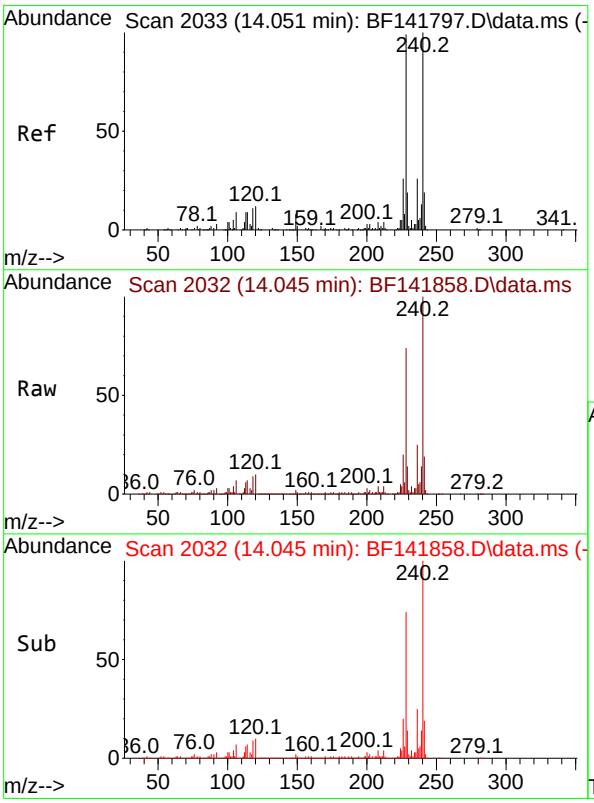
#75
Fluoranthene
Concen: 41.655 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 1579732

Ion	Ratio	Lower	Upper
202	100		
101	11.2	0.0	32.8
203	18.0	0.0	38.0

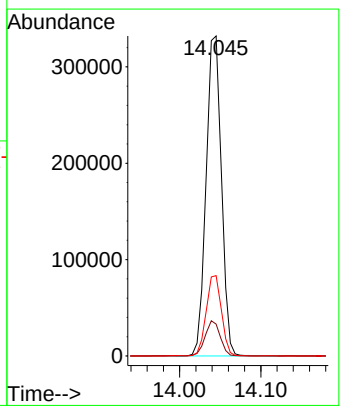


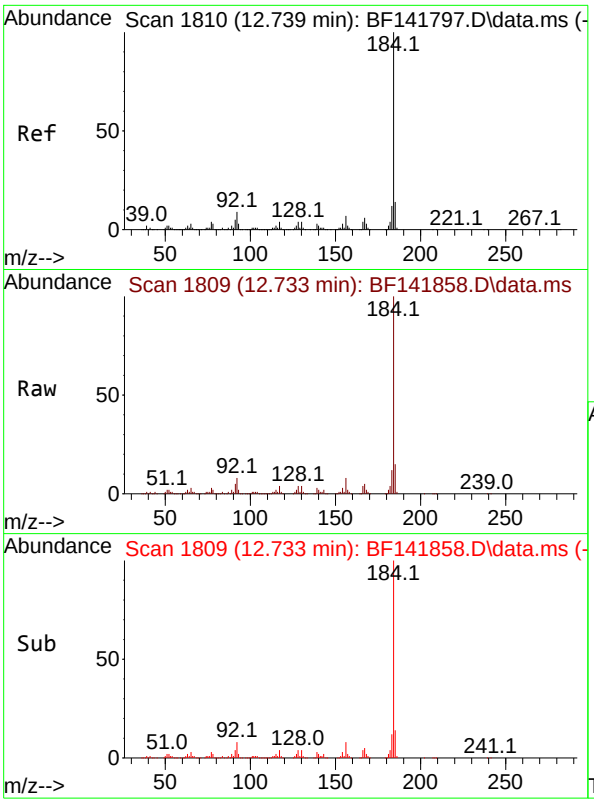


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:240 Resp: 434521

Ion	Ratio	Lower	Upper
240	100		
120	10.0	9.7	14.5
236	25.1	21.0	31.4



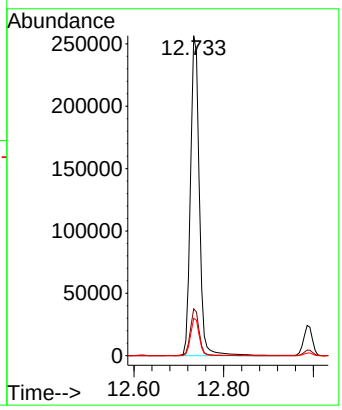


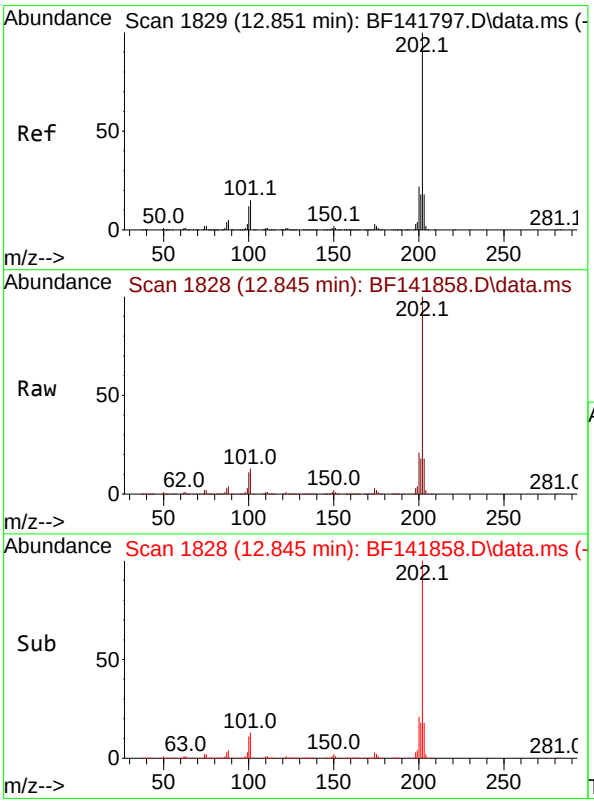
#77
Benzidine
Concen: 64.132 ng
RT: 12.733 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 350744

Ion	Ratio	Lower	Upper
184	100		
185	14.6	11.6	17.4
183	11.6	9.4	14.0

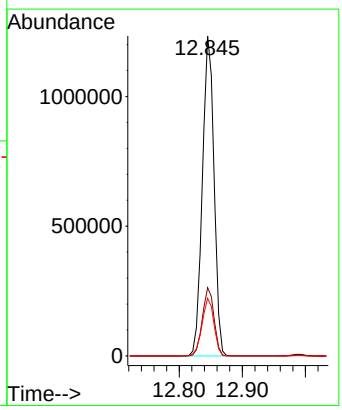


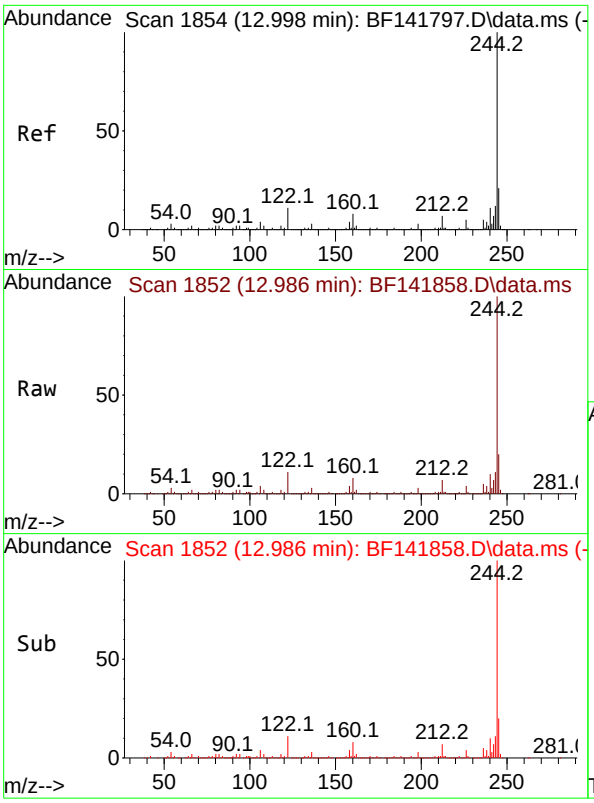


#78
Pyrene
Concen: 42.032 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:202 Resp: 1581543

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.4	26.0
203	18.0	14.6	22.0



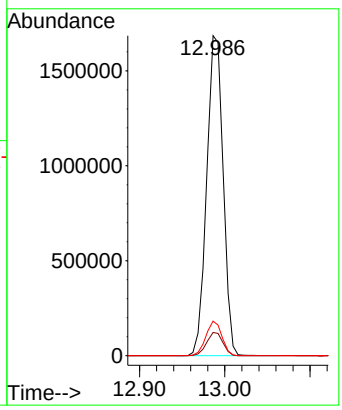


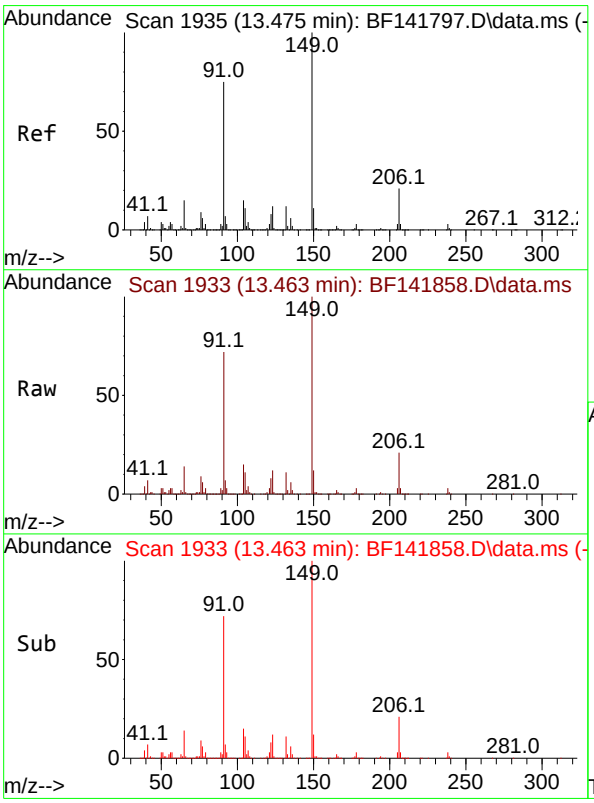
#79
Terphenyl-d14
Concen: 84.201 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 2261369

Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.0	9.0
122	10.8	9.0	13.6

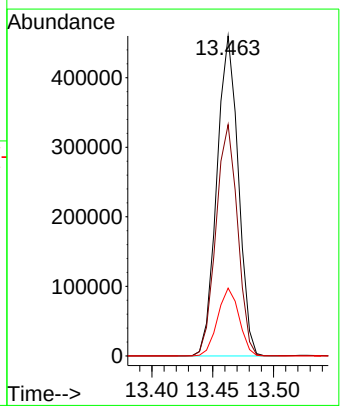


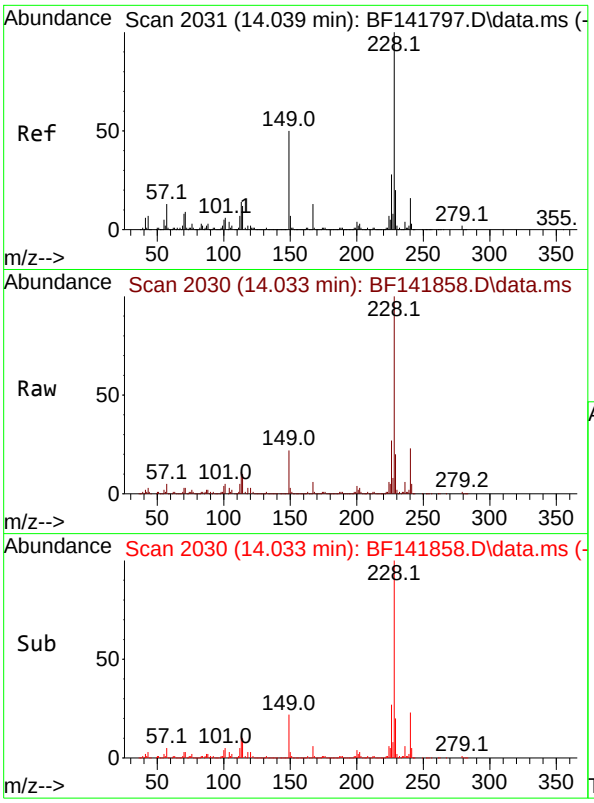


#80
Butylbenzylphthalate
Concen: 41.333 ng
RT: 13.463 min Scan# 1933
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:149 Resp: 565050

Ion	Ratio	Lower	Upper
149	100		
91	72.3	60.1	90.1
206	21.2	16.8	25.2



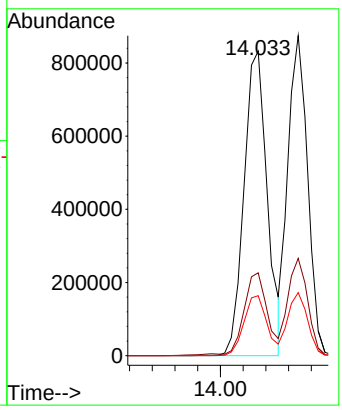


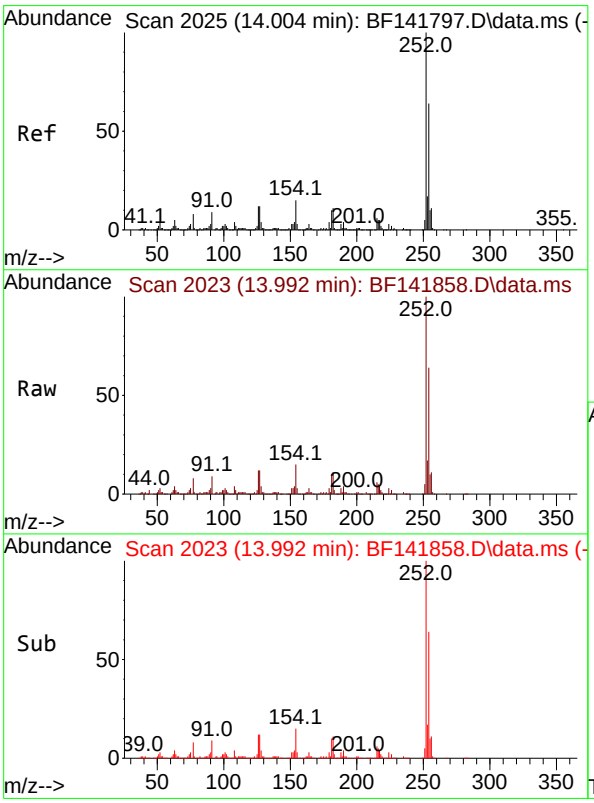
#81
Benzo(a)anthracene
Concen: 41.166 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 1181513

Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.1	33.1
229	19.7	16.1	24.1

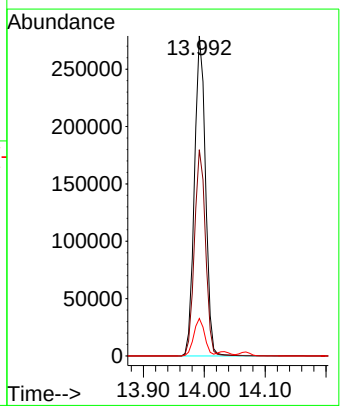


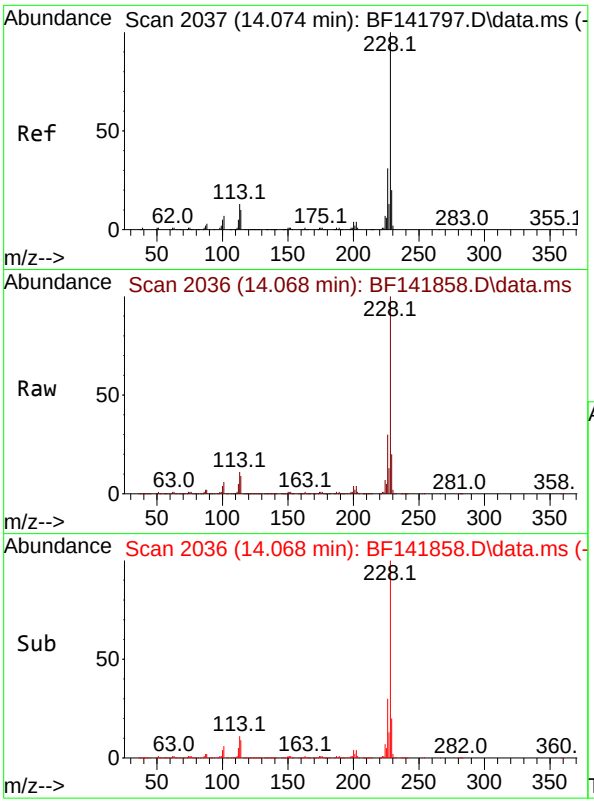


#82
3,3'-Dichlorobenzidine
Concen: 42.780 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:252 Resp: 352265

Ion	Ratio	Lower	Upper
252	100		
254	64.5	51.4	77.0
126	11.7	9.8	14.6



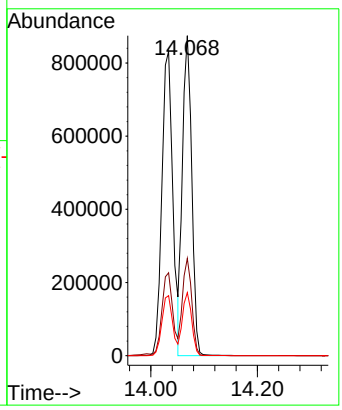


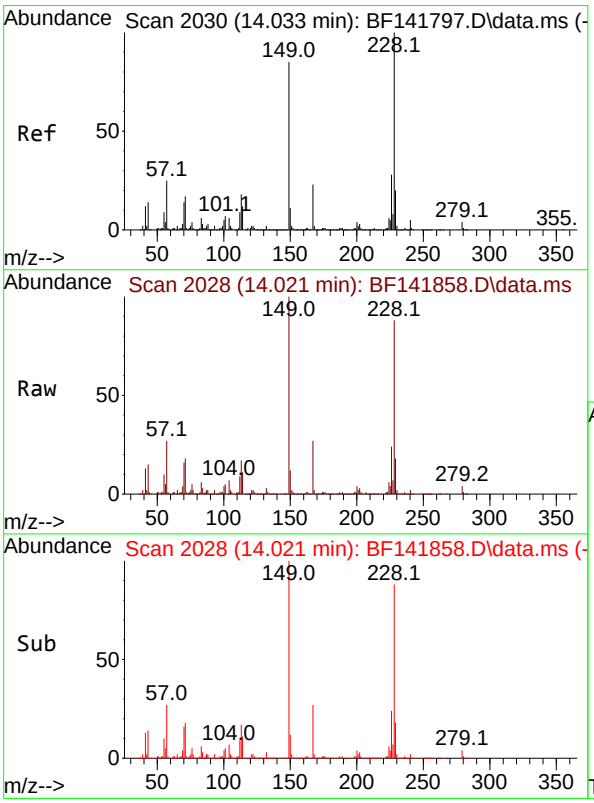
#83
Chrysene
Concen: 40.001 ng
RT: 14.068 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 1058301

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.6	37.0
229	19.7	16.1	24.1

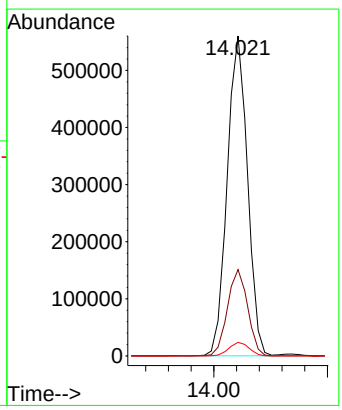


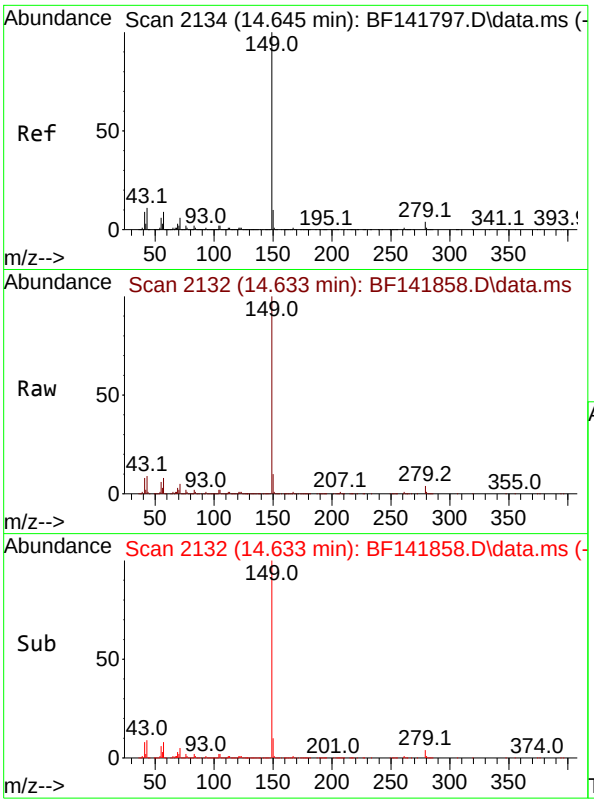


#84
Bis(2-ethylhexyl)phthalate
Concen: 40.771 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:149 Resp: 694013

Ion	Ratio	Lower	Upper
149	100		
167	27.0	21.2	31.8
279	4.3	3.3	4.9



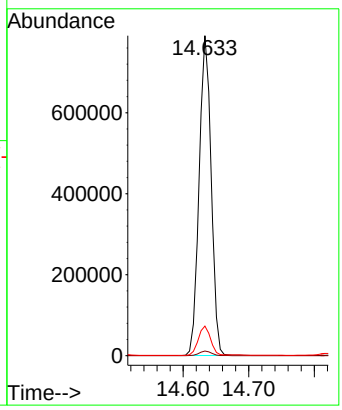


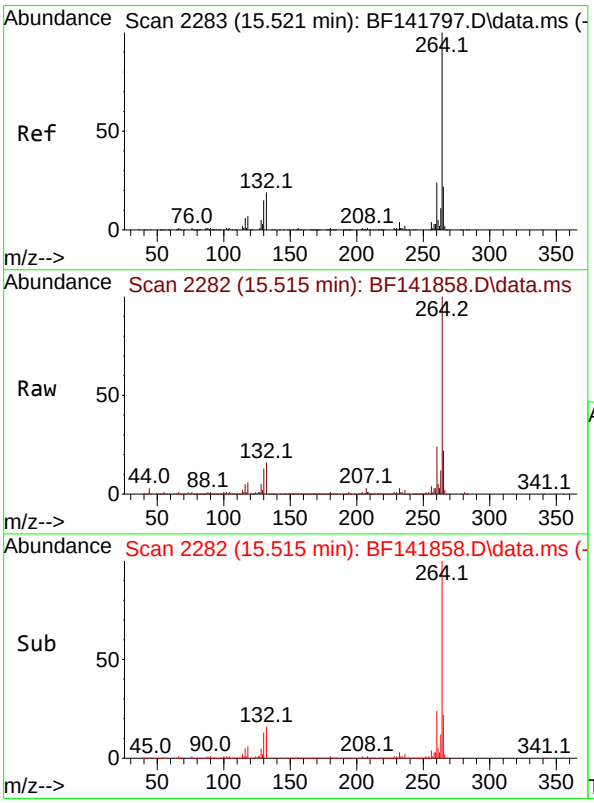
#85
Di-n-octyl phthalate
Concen: 39.653 ng
RT: 14.633 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 1010509

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	9.5	8.6	12.8

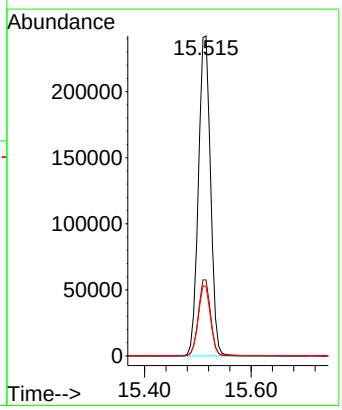


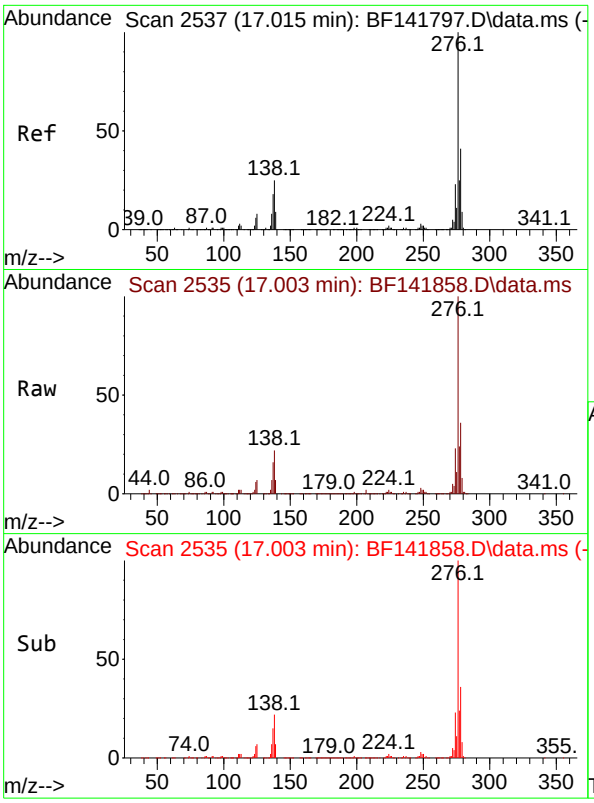


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.515 min Scan# 2282
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:264 Resp: 382575

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.9	28.3
265	21.7	17.4	26.0



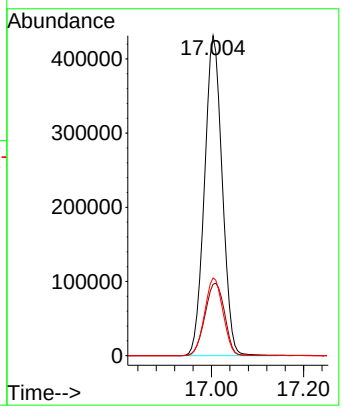


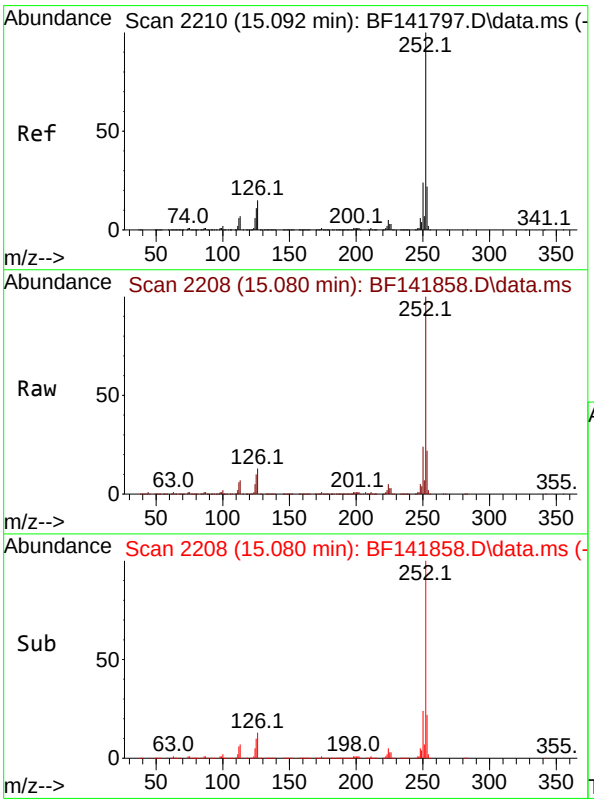
#87
Indeno(1,2,3-cd)pyrene
Concen: 47.319 ng
RT: 17.003 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 1152756

Ion	Ratio	Lower	Upper
276	100		
138	25.1	22.5	33.7
277	25.3	20.3	30.5

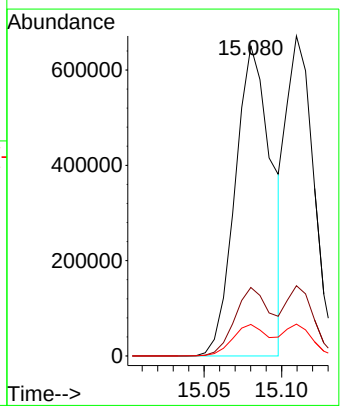


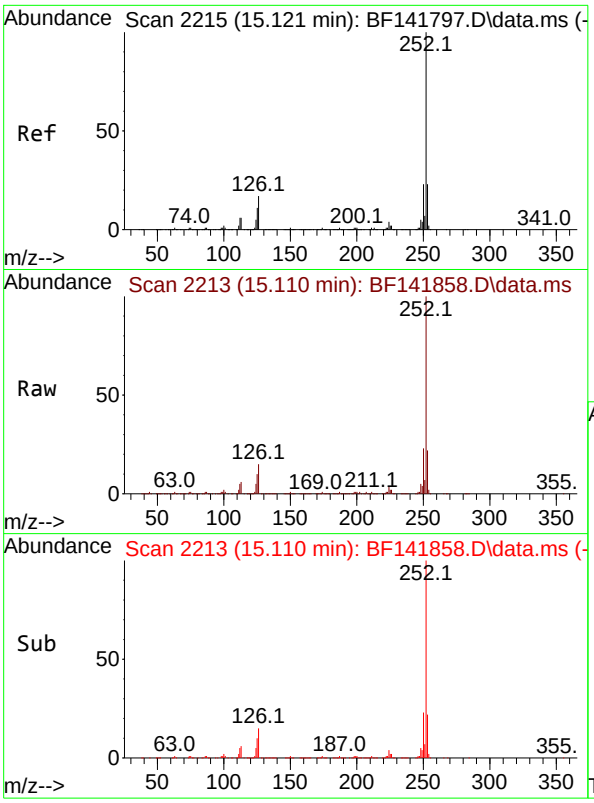


#88
Benzo(b)fluoranthene
Concen: 40.755 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:252 Resp: 1062079

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	10.2	8.6	13.0



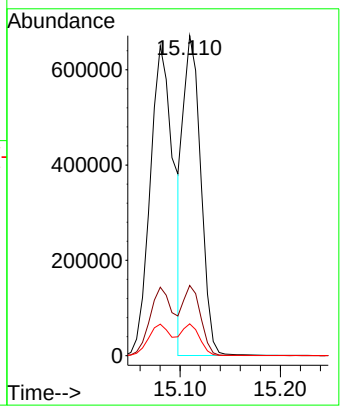


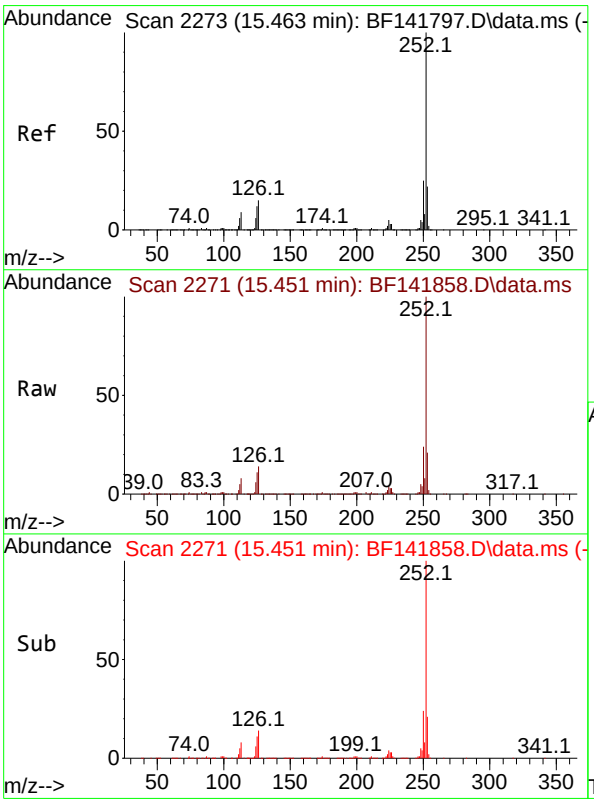
#89
Benzo(k)fluoranthene
Concen: 37.066 ng
RT: 15.110 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 821007

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.8
125	10.0	8.8	13.2

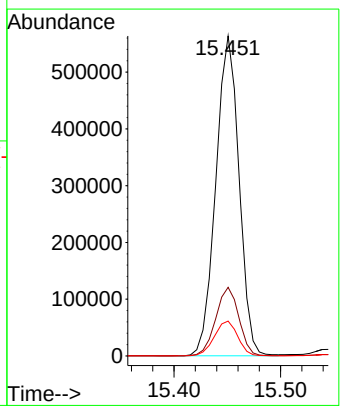


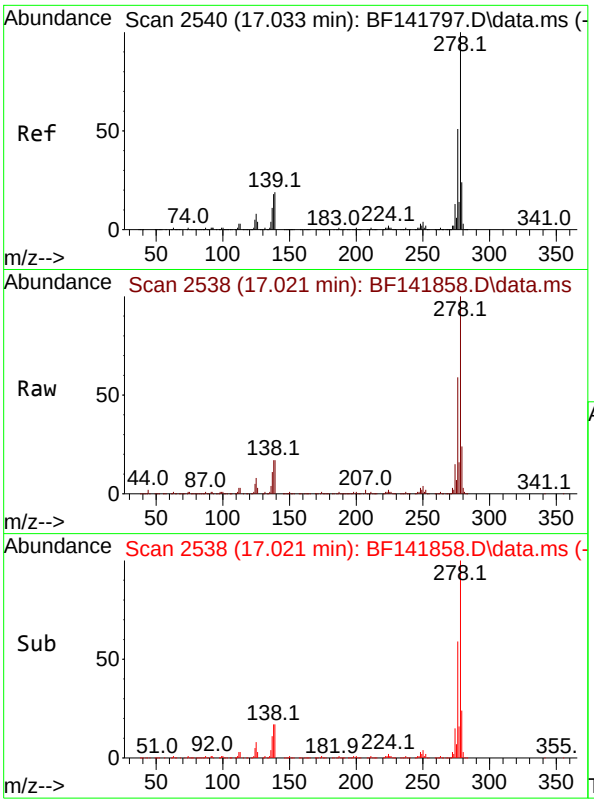


#90
Benzo(a)pyrene
Concen: 40.761 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:252 Resp: 851884

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.5	26.3
125	10.9	9.4	14.2



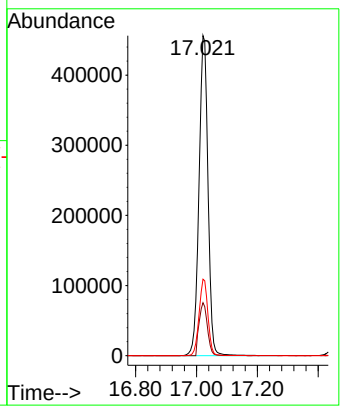


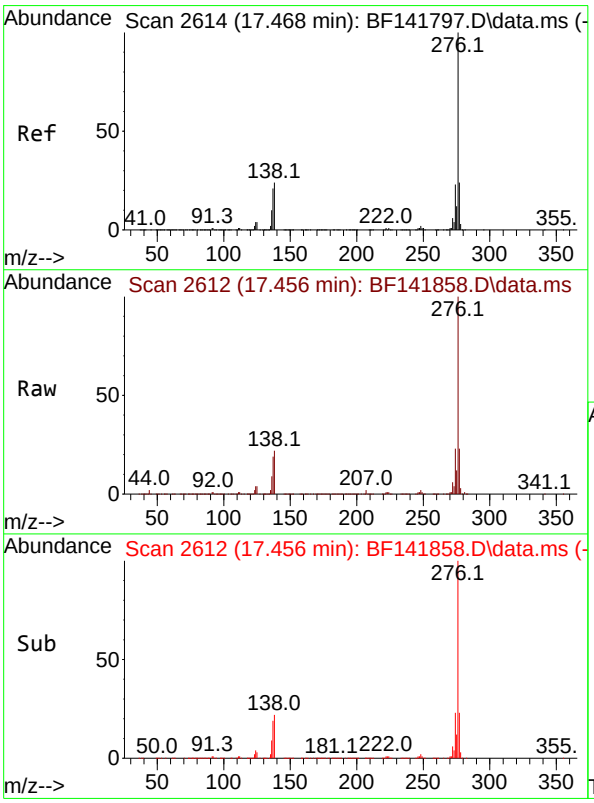
#91
Dibenzo(a,h)anthracene
Concen: 46.962 ng
RT: 17.021 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 933839

Ion	Ratio	Lower	Upper
278	100		
139	16.6	14.9	22.3
279	23.9	19.3	28.9

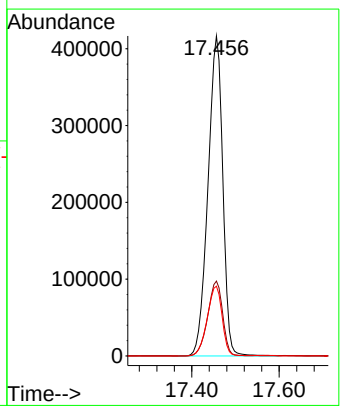




#92
Benzo(g,h,i)perylene
Concen: 48.133 ng
RT: 17.456 min Scan# 2612
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:276 Resp: 980552

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.4	29.0
138	21.8	19.3	28.9



Sample Results: **BF141858.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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	72	0.00
2		1,4-Dioxane	0.568	0.556	2.1	67	-0.02
3		Pyridine	1.414	1.372	3.0	67	-0.02
4		n-Nitrosodimethylamine	0.680	0.662	2.6	65	-0.02
5	S	2-Fluorophenol	1.252	1.263	-0.9	71	0.00
6		Aniline	1.695	1.594	6.0	64	0.00
7	S	Phenol-d6	1.630	1.584	2.8	68	0.00
8		2-Chlorophenol	1.355	1.366	-0.8	70	0.00
9		Benzaldehyde	0.948	0.847	10.7	62	0.00
10	C	Phenol	1.742	1.692	2.9	67	0.00
11		bis(2-Chloroethyl)ether	1.328	1.246	6.2	67	0.00
12		1,3-Dichlorobenzene	1.451	1.457	-0.4	70	0.00
13	C	1,4-Dichlorobenzene	1.462	1.504	-2.9	72	0.00
14		1,2-Dichlorobenzene	1.365	1.366	-0.1	70	0.00
15		Benzyl Alcohol	1.303	1.261	3.2	67	0.00
16		2,2'-oxybis(1-Chloropropane	2.016	1.664	17.5	58	0.00
17		2-Methylphenol	1.118	1.076	3.8	67	0.00
18		Hexachloroethane	0.547	0.554	-1.3	69	0.00
19	P	n-Nitroso-di-n-propylamine	1.072	0.946	11.8	63	0.00
20		3+4-Methylphenols	1.392	1.366	1.9	68	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	67	0.00
22		Acetophenone	0.487	0.490	-0.6	67	0.00
23	S	Nitrobenzene-d5	0.313	0.382	-22.0	76	0.00
24		Nitrobenzene	0.335	0.382	-14.0	71	0.00
25		Isophorone	0.672	0.635	5.5	63	0.00
26	C	2-Nitrophenol	0.127	0.188	-48.0#	88	0.00
27		2,4-Dimethylphenol	0.247	0.253	-2.4	67	0.00
28		bis(2-Chloroethoxy)methane	0.429	0.412	4.0	64	0.00
29	C	2,4-Dichlorophenol	0.285	0.305	-7.0	69	0.00
30		1,2,4-Trichlorobenzene	0.312	0.332	-6.4	70	0.00
31		Naphthalene	1.028	1.054	-2.5	68	0.00
32		Benzoic acid	0.179	0.250	-39.7#	88	-0.02
33		4-Chloroaniline	0.377	0.374	0.8	67	0.00
34	C	Hexachlorobutadiene	0.194	0.208	-7.2	71	0.00
35		Caprolactam	0.088	0.093	-5.7	68	-0.01
36	C	4-Chloro-3-methylphenol	0.317	0.330	-4.1	68	0.00
37		2-Methylnaphthalene	0.674	0.684	-1.5	68	0.00
38		1-Methylnaphthalene	0.647	0.657	-1.5	68	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	68	0.00
40		1,2,4,5-Tetrachlorobenzene	0.578	0.607	-5.0	70	0.00
41	P	Hexachlorocyclopentadiene	0.241	0.266	-10.4	69	0.00
42	S	2,4,6-Tribromophenol	0.188	0.224	-19.1	76	0.00
43	C	2,4,6-Trichlorophenol	0.373	0.399	-7.0	68	0.00
44		2,4,5-Trichlorophenol	0.369	0.413	-11.9	73	0.00
45	S	2-Fluorobiphenyl	1.247	1.292	-3.6	71	0.00
46		1,1'-Biphenyl	1.522	1.560	-2.5	69	0.00
47		2-Chloronaphthalene	1.124	1.157	-2.9	69	0.00

Sample Results: **BF141858.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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	0.260	0.356	-36.9#	80	0.00
49		Acenaphthylene	1.685	1.735	-3.0	68	-0.01
50		Dimethylphthalate	1.339	1.363	-1.8	68	-0.01
51		2,6-Dinitrotoluene	0.226	0.300	-32.7#	79	-0.01
52	C	Acenaphthene	1.137	1.209	-6.3	71	0.00
53		3-Nitroaniline	0.241	0.314	-30.3#	77	0.00
54	P	2,4-Dinitrophenol	0.089	0.159	-78.7#	116	0.00
55		Dibenzofuran	1.654	1.682	-1.7	68	0.00
56	P	4-Nitrophenol	0.198	0.262	-32.3#	77	0.00
57		2,4-Dinitrotoluene	0.269	0.396	-47.2#	85	0.00
58		Fluorene	1.239	1.270	-2.5	70	0.00
59		2,3,4,6-Tetrachlorophenol	0.321	0.362	-12.8	72	0.00
60		Diethylphthalate	1.343	1.344	-0.1	66	-0.01
61		4-Chlorophenyl-phenylether	0.621	0.640	-3.1	70	0.00
62		4-Nitroaniline	0.229	0.307	-34.1#	78	-0.01
63		Azobenzene	1.414	1.358	4.0	64	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	67	0.00
65		4,6-Dinitro-2-methylphenol	0.081	0.132	-63.0#	102	0.00
66	c	n-Nitrosodiphenylamine	0.657	0.670	-2.0	68	0.00
67		4-Bromophenyl-phenylether	0.234	0.243	-3.8	69	0.00
68		Hexachlorobenzene	0.247	0.266	-7.7	71	0.00
69		Atrazine	0.181	0.155	14.4	58	-0.01
70	C	Pentachlorophenol	0.156	0.186	-19.2	74	0.00
71		Phenanthrene	1.070	1.115	-4.2	70	0.00
72		Anthracene	1.072	1.115	-4.0	70	0.00
73		Carbazole	0.947	0.988	-4.3	69	0.00
74		Di-n-butylphthalate	1.200	1.188	1.0	66	0.00
75	C	Fluoranthene	1.096	1.142	-4.2	70	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	69	0.00
77		Benzidine	0.252	0.404	-60.3#	107	0.00
78		Pyrene	1.732	1.820	-5.1	70	0.00
79	S	Terphenyl-d14	1.236	1.301	-5.3	71	-0.01
80		Butylbenzylphthalate	0.629	0.650	-3.3	67	-0.01
81		Benzo(a)anthracene	1.321	1.360	-3.0	72	0.00
82		3,3'-Dichlorobenzidine	0.379	0.405	-6.9	71	-0.01
83		Chrysene	1.218	1.218	0.0	66	0.00
84		Bis(2-ethylhexyl)phthalate	0.783	0.799	-2.0	66	-0.01
85	c	Di-n-octyl phthalate	1.173	1.163	0.9	61	-0.01
86	I	Perylene-d12	1.000	1.000	0.0	67	0.00
87		Indeno(1,2,3-cd)pyrene	1.274	1.507	-18.3	76	-0.01
88		Benzo(b)fluoranthene	1.362	1.388	-1.9	72	-0.01
89		Benzo(k)fluoranthene	1.158	1.073	7.3	60	-0.01
90	C	Benzo(a)pyrene	1.093	1.113	-1.8	67	-0.01
91		Dibenzo(a,h)anthracene	1.040	1.220	-17.3	74	-0.01
92		Benzo(g,h,i)perylene	1.065	1.282	-20.4	77	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Sample Results: **BF141858.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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	72	0.00
2		1,4-Dioxane	40.000	39.116	2.2	67	-0.02
3		Pyridine	40.000	38.819	3.0	67	-0.02
4		n-Nitrosodimethylamine	40.000	38.909	2.7	65	-0.02
5	S	2-Fluorophenol	80.000	80.684	-0.9	71	0.00
6		Aniline	40.000	37.619	6.0	64	0.00
7	S	Phenol-d6	80.000	77.750	2.8	68	0.00
8		2-Chlorophenol	40.000	40.331	-0.8	70	0.00
9		Benzaldehyde	40.000	35.716	10.7	62	0.00
10	C	Phenol	40.000	38.850	2.9	67	0.00
11		bis(2-Chloroethyl)ether	40.000	37.524	6.2	67	0.00
12		1,3-Dichlorobenzene	40.000	40.171	-0.4	70	0.00
13	C	1,4-Dichlorobenzene	40.000	41.163	-2.9	72	0.00
14		1,2-Dichlorobenzene	40.000	40.035	-0.1	70	0.00
15		Benzyl Alcohol	40.000	38.708	3.2	67	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	33.001	17.5	58	0.00
17		2-Methylphenol	40.000	38.479	3.8	67	0.00
18		Hexachloroethane	40.000	40.497	-1.2	69	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	35.298	11.8	63	0.00
20		3+4-Methylphenols	40.000	39.253	1.9	68	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	67	0.00
22		Acetophenone	40.000	40.243	-0.6	67	0.00
23	S	Nitrobenzene-d5	80.000	97.772	-22.2	76	0.00
24		Nitrobenzene	40.000	45.653	-14.1	71	0.00
25		Isophorone	40.000	37.814	5.5	63	0.00
26	C	2-Nitrophenol	40.000	49.968	-24.9#	88	0.00
27		2,4-Dimethylphenol	40.000	40.956	-2.4	67	0.00
28		bis(2-Chloroethoxy)methane	40.000	38.448	3.9	64	0.00
29	C	2,4-Dichlorophenol	40.000	42.802	-7.0	69	0.00
30		1,2,4-Trichlorobenzene	40.000	42.568	-6.4	70	0.00
31		Naphthalene	40.000	41.026	-2.6	68	0.00
32		Benzoic acid	40.000	48.428	-21.1	88	-0.02
33		4-Chloroaniline	40.000	39.713	0.7	67	0.00
34	C	Hexachlorobutadiene	40.000	42.902	-7.3	71	0.00
35		Caprolactam	40.000	42.235	-5.6	68	-0.01
36	C	4-Chloro-3-methylphenol	40.000	41.661	-4.2	68	0.00
37		2-Methylnaphthalene	40.000	40.571	-1.4	68	0.00
38		1-Methylnaphthalene	40.000	40.609	-1.5	68	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	68	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	42.066	-5.2	70	0.00
41	P	Hexachlorocyclopentadiene	40.000	44.067	-10.2	69	0.00
42	S	2,4,6-Tribromophenol	80.000	95.540	-19.4	76	0.00
43	C	2,4,6-Trichlorophenol	40.000	42.772	-6.9	68	0.00
44		2,4,5-Trichlorophenol	40.000	44.739	-11.8	73	0.00
45	S	2-Fluorobiphenyl	80.000	82.849	-3.6	71	0.00
46		1,1'-Biphenyl	40.000	40.994	-2.5	69	0.00
47		2-Chloronaphthalene	40.000	41.199	-3.0	69	0.00

Sample Results: **BF141858.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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	46.508	-16.3	80	0.00
49		Acenaphthylene	40.000	41.204	-3.0	68	-0.01
50		Dimethylphthalate	40.000	40.693	-1.7	68	-0.01
51		2,6-Dinitrotoluene	40.000	46.842	-17.1	79	-0.01
52	C	Acenaphthene	40.000	42.527	-6.3	71	0.00
53		3-Nitroaniline	40.000	46.137	-15.3	77	0.00
54	P	2,4-Dinitrophenol	40.000	59.722	-49.3#	116	0.00
55		Dibenzofuran	40.000	40.671	-1.7	68	0.00
56	P	4-Nitrophenol	40.000	52.954	-32.4#	77	0.00
57		2,4-Dinitrotoluene	40.000	50.419	-26.0#	85	0.00
58		Fluorene	40.000	41.003	-2.5	70	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	45.123	-12.8	72	0.00
60		Diethylphthalate	40.000	40.052	-0.1	66	-0.01
61		4-Chlorophenyl-phenylether	40.000	41.246	-3.1	70	0.00
62		4-Nitroaniline	40.000	53.688	-34.2#	78	-0.01
63		Azobenzene	40.000	38.422	3.9	64	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	67	0.00
65		4,6-Dinitro-2-methylphenol	40.000	54.694	-36.7#	102	0.00
66	c	n-Nitrosodiphenylamine	40.000	40.832	-2.1	68	0.00
67		4-Bromophenyl-phenylether	40.000	41.606	-4.0	69	0.00
68		Hexachlorobenzene	40.000	43.090	-7.7	71	0.00
69		Atrazine	40.000	34.313	14.2	58	-0.01
70	C	Pentachlorophenol	40.000	47.434	-18.6	74	0.00
71		Phenanthrene	40.000	41.677	-4.2	70	0.00
72		Anthracene	40.000	41.580	-3.9	70	0.00
73		Carbazole	40.000	41.751	-4.4	69	0.00
74		Di-n-butylphthalate	40.000	39.592	1.0	66	0.00
75	C	Fluoranthene	40.000	41.655	-4.1	70	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	69	0.00
77		Benzidine	40.000	64.132	-60.3#	107	0.00
78		Pyrene	40.000	42.032	-5.1	70	0.00
79	S	Terphenyl-d14	80.000	84.201	-5.3	71	-0.01
80		Butylbenzylphthalate	40.000	41.333	-3.3	67	-0.01
81		Benzo(a)anthracene	40.000	41.166	-2.9	72	0.00
82		3,3'-Dichlorobenzidine	40.000	42.780	-7.0	71	-0.01
83		Chrysene	40.000	40.001	-0.0	66	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	40.771	-1.9	66	-0.01
85	c	Di-n-octyl phthalate	40.000	39.653	0.9	61	-0.01
86	I	Perylene-d12	20.000	20.000	0.0	67	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	47.319	-18.3	76	-0.01
88		Benzo(b)fluoranthene	40.000	40.755	-1.9	72	-0.01
89		Benzo(k)fluoranthene	40.000	37.066	7.3	60	-0.01
90	C	Benzo(a)pyrene	40.000	40.761	-1.9	67	-0.01
91		Dibenzo(a,h)anthracene	40.000	46.962	-17.4	74	-0.01
92		Benzo(g,h,i)perylene	40.000	48.133	-20.3	77	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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 = 1

QC SAMPLE DATA

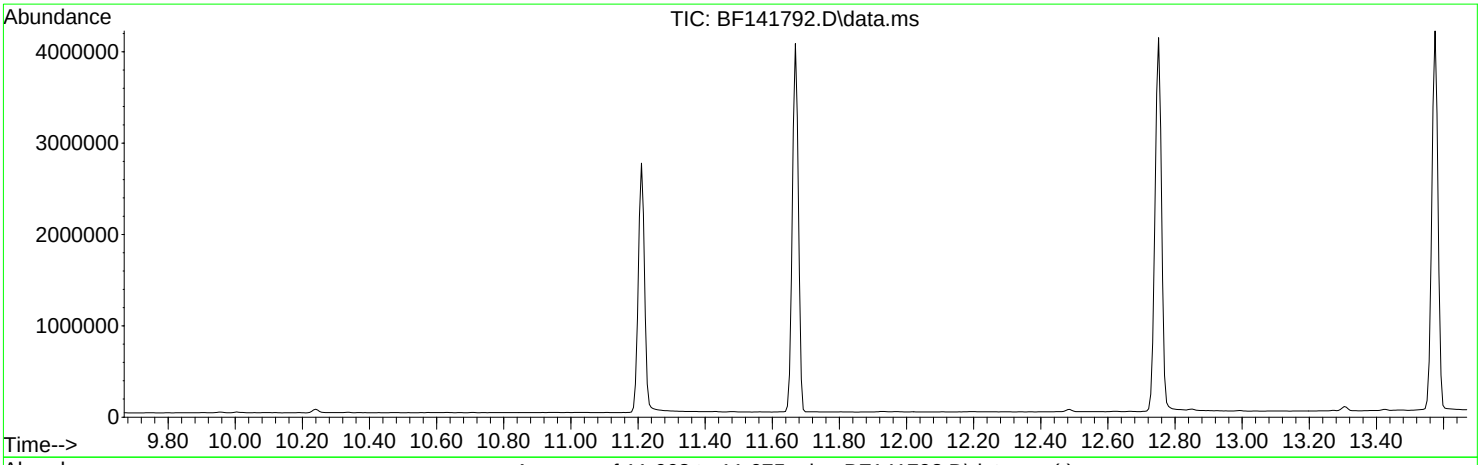
Sample Results: **BF141792.D**

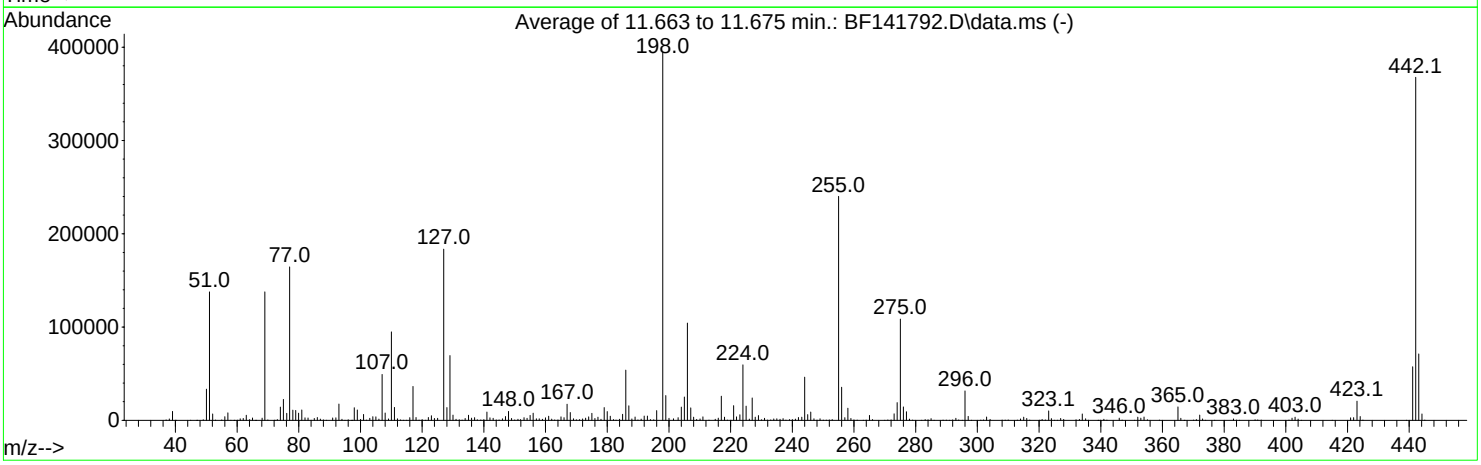
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141792.D
Acq On : 27 Feb 2025 14:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Feb 28 01:48:16 2025





AutoFind: Scans 1627, 1628, 1629; Background Corrected with Scan 1620

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.9	137699	PASS
68	69	0.00	2	1.7	2348	PASS
69	198	0.00	100	34.9	137773	PASS
70	69	0.00	2	0.4	593	PASS
127	198	10	80	46.5	183483	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	394304	PASS
199	198	5	9	6.7	26613	PASS
275	198	10	60	27.6	108637	PASS
365	198	1	100	3.7	14499	PASS
441	198	0.01	100	14.6	57517	PASS
442	442	50	100	100.0	367680	PASS
443	442	15	24	19.4	71267	PASS

DDT Breakdown

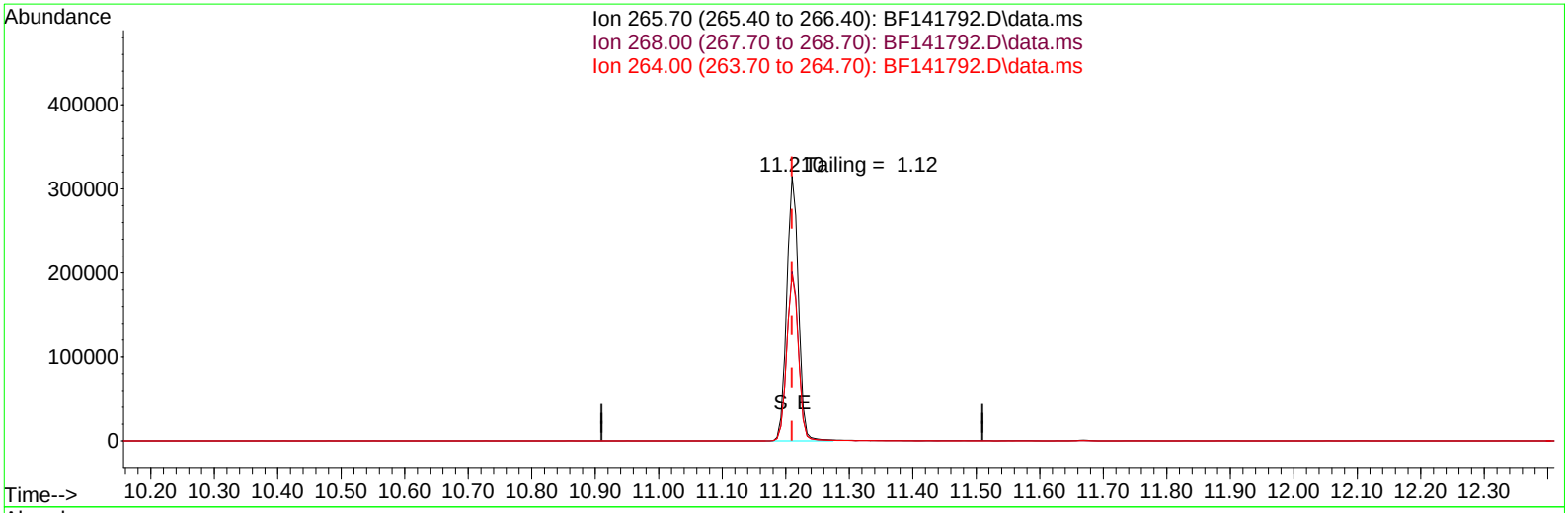
Date	Instrument Name	DFTPP Data File
2/27/2025	BNA_F	BF141792.D
Compound Name	**Response**	**Retention Time**
DDT	938485	13.575
DDD	9936	13.304
DDE	0	12.827
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
9936	948421	1.05

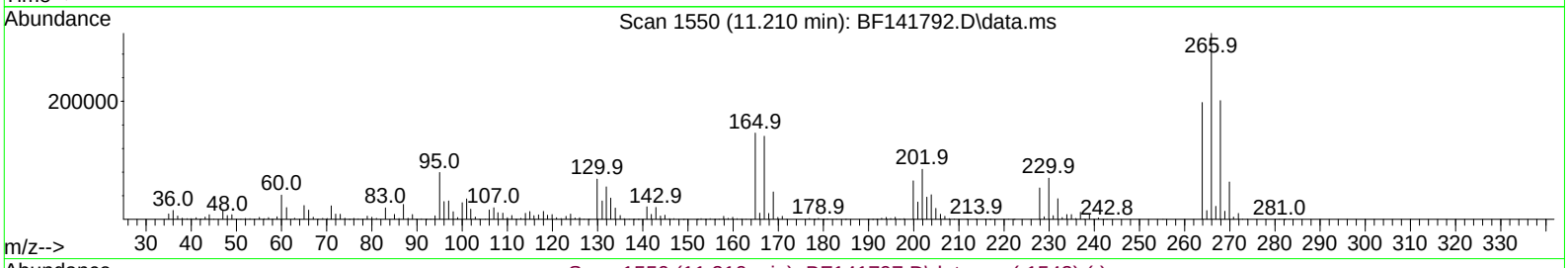
Instrument :
BNA_F
ClientSampleId :
DFTPP

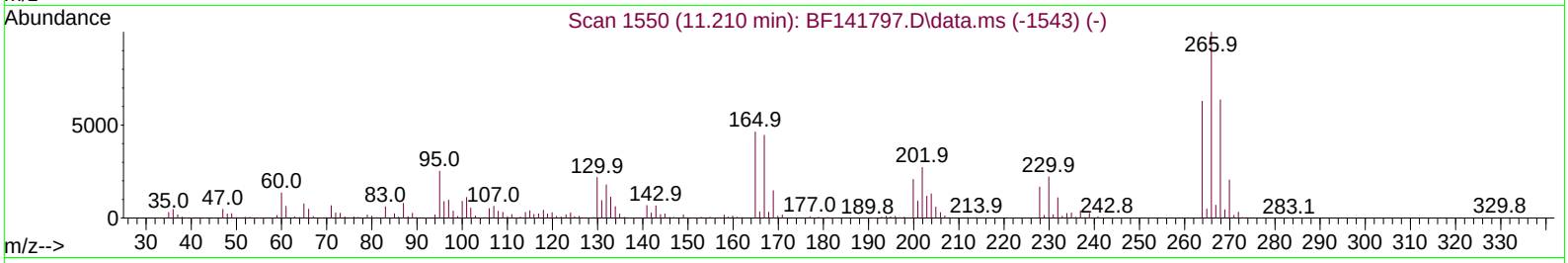
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141792.D
Acq On : 27 Feb 2025 14:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 28 01:59:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration







TIC: BF141792.D\data.ms

(70) Pentachlorophenol (C)

11.210min (-0.000) 55299.21 ng

response 409665

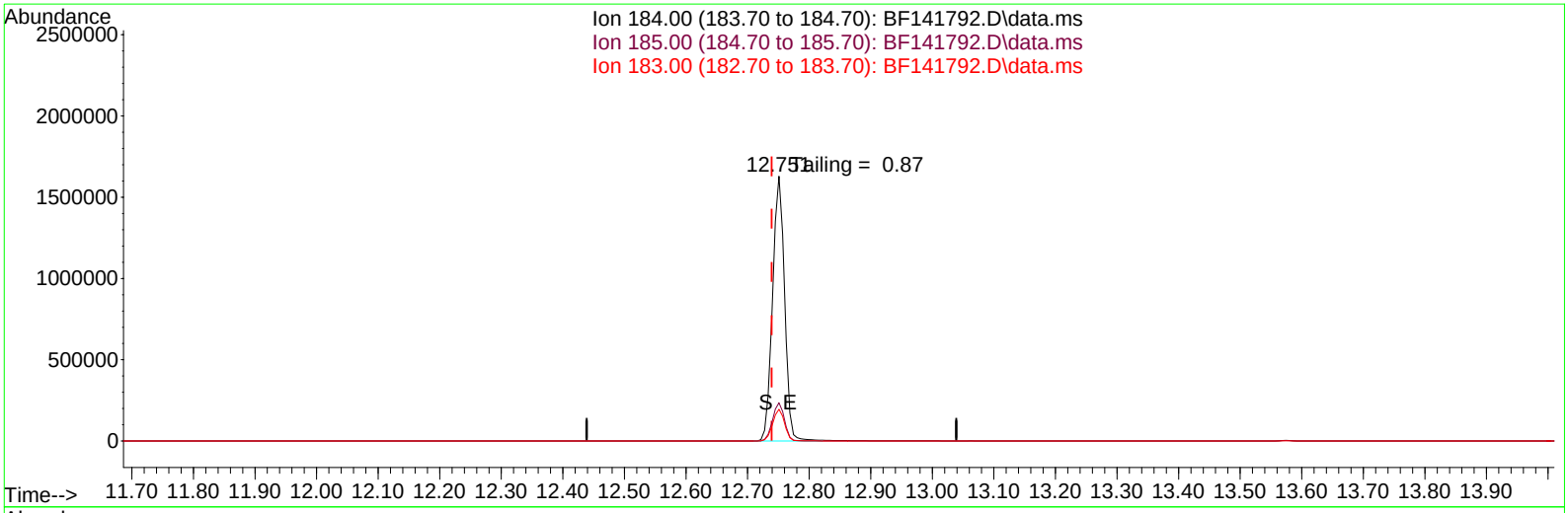
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.60	63.84
264.00	62.80	62.85
0.00	0.00	0.00

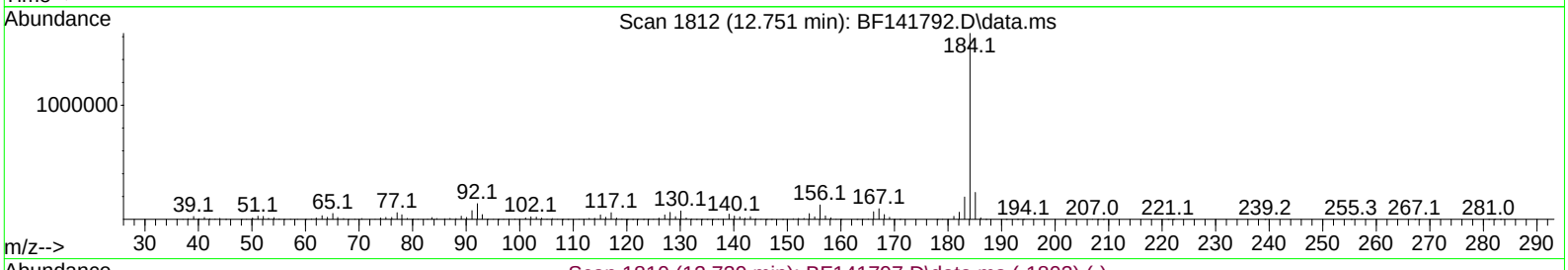
Sample Results: **BF141792.D**

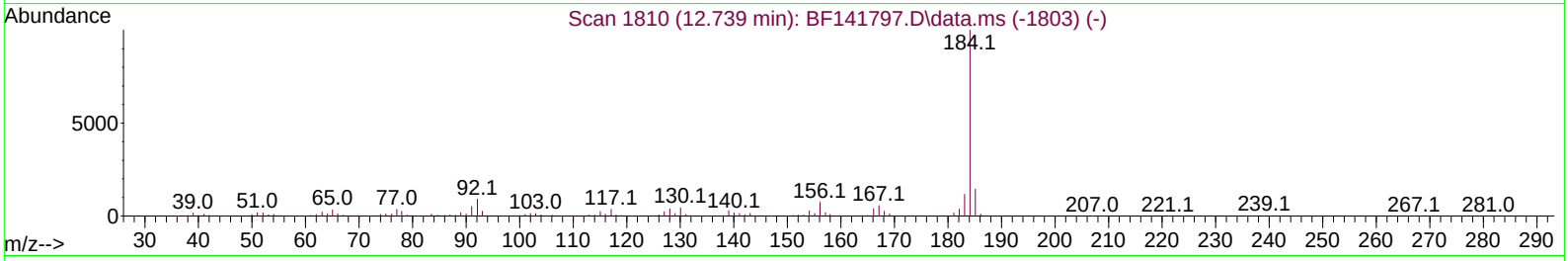
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141792.D
Acq On : 27 Feb 2025 14:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 28 01:59:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration







TIC: BF141792.D\data.ms

(77) Benzidine

12.751min (+ 0.012) 190021.56 ng

response 2231445

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.50	14.44
183.00	11.70	11.98
0.00	0.00	0.00

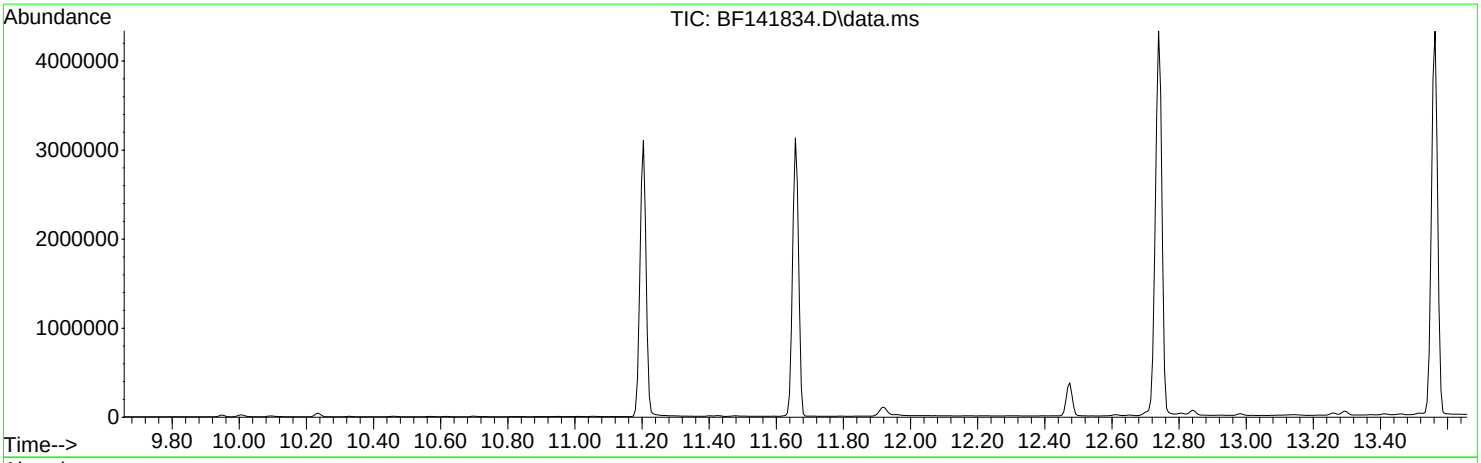
Sample Results: **BF141834.D**

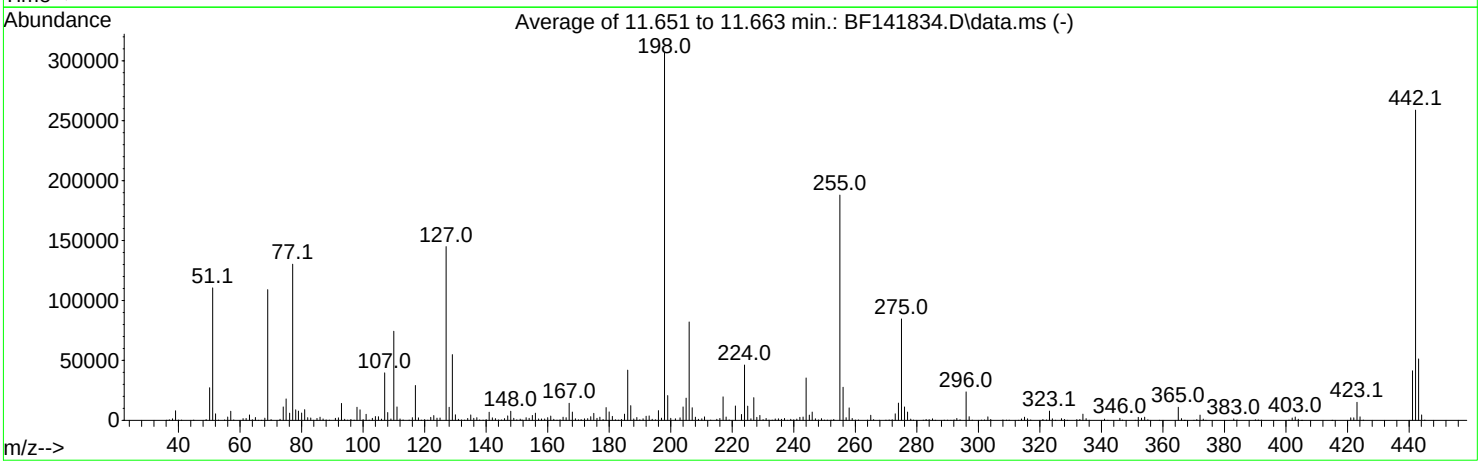
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141834.D
Acq On : 05 Mar 2025 09:40
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Feb 28 01:48:16 2025





AutoFind: Scans 1625, 1626, 1627; Background Corrected with Scan 1618

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.0	110581	PASS
68	69	0.00	2	1.8	1934	PASS
69	198	0.00	100	35.5	109001	PASS
70	69	0.00	2	0.6	688	PASS
127	198	10	80	47.3	145005	PASS
197	198	0.00	2	0.6	1815	PASS
198	198	100	100	100.0	306880	PASS
199	198	5	9	6.8	20715	PASS
275	198	10	60	27.6	84643	PASS
365	198	1	100	3.6	10929	PASS
441	198	0.01	100	13.5	41328	PASS
442	442	50	100	100.0	258816	PASS
443	442	15	24	19.8	51307	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
3/5/2025	BNA_F	BF141834.D
Compound Name	**Response**	**Retention Time**
DDT	1076236	13.563
DDD	16503	13.292
DDE	899	12.927
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
17402	1093638	1.59

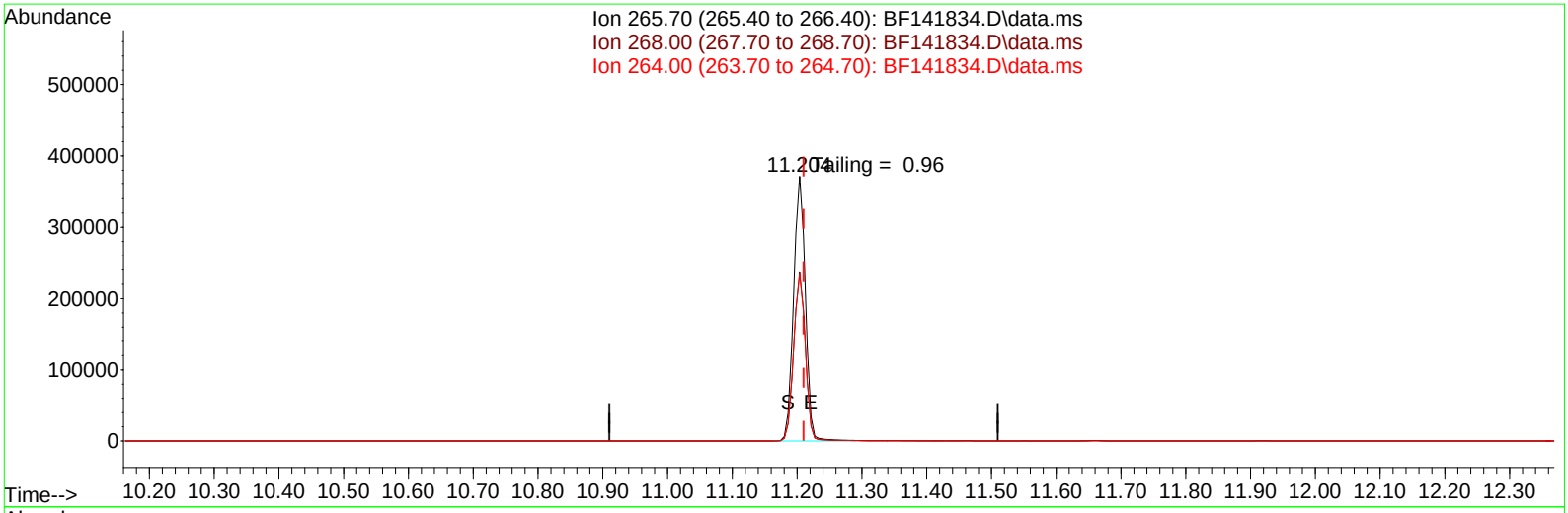
Instrument :
BNA_F
ClientSampleId :
DFTPP

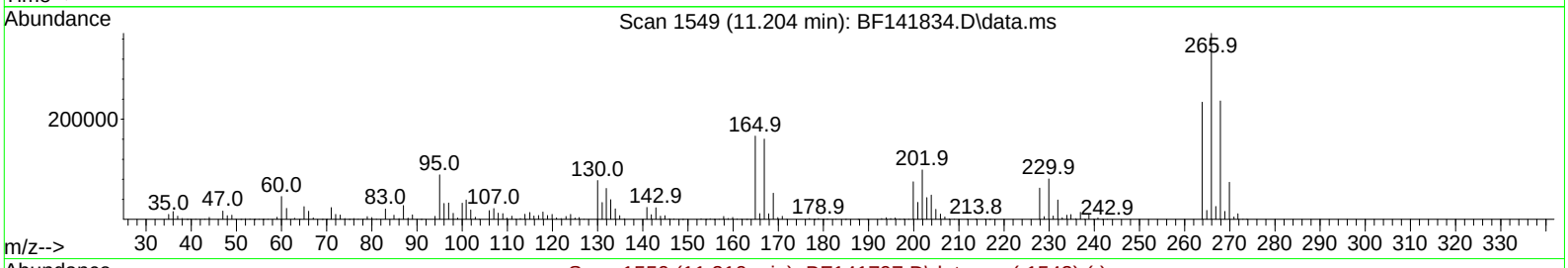
Sample Results: **BF141834.D**

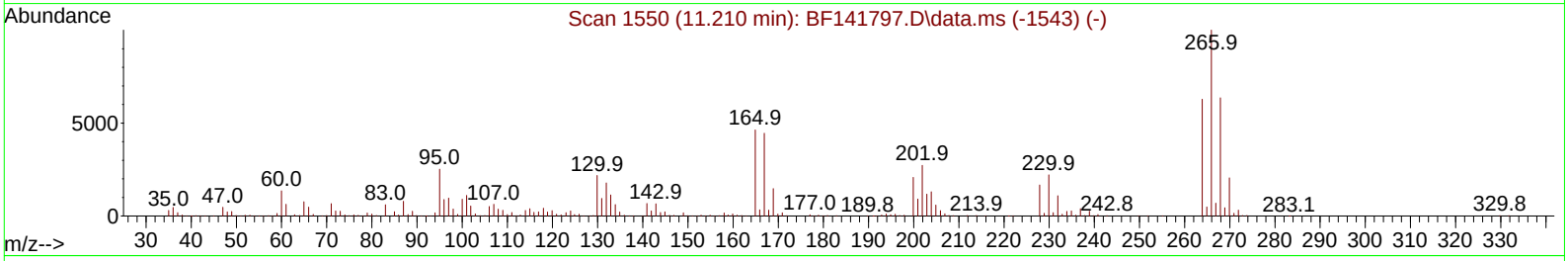
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141834.D
Acq On : 05 Mar 2025 09:40
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Mar 05 11:25:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration







TIC: BF141834.D\data.ms

(70) Pentachlorophenol (C)

11.204min (-0.006) 20262.40 ng

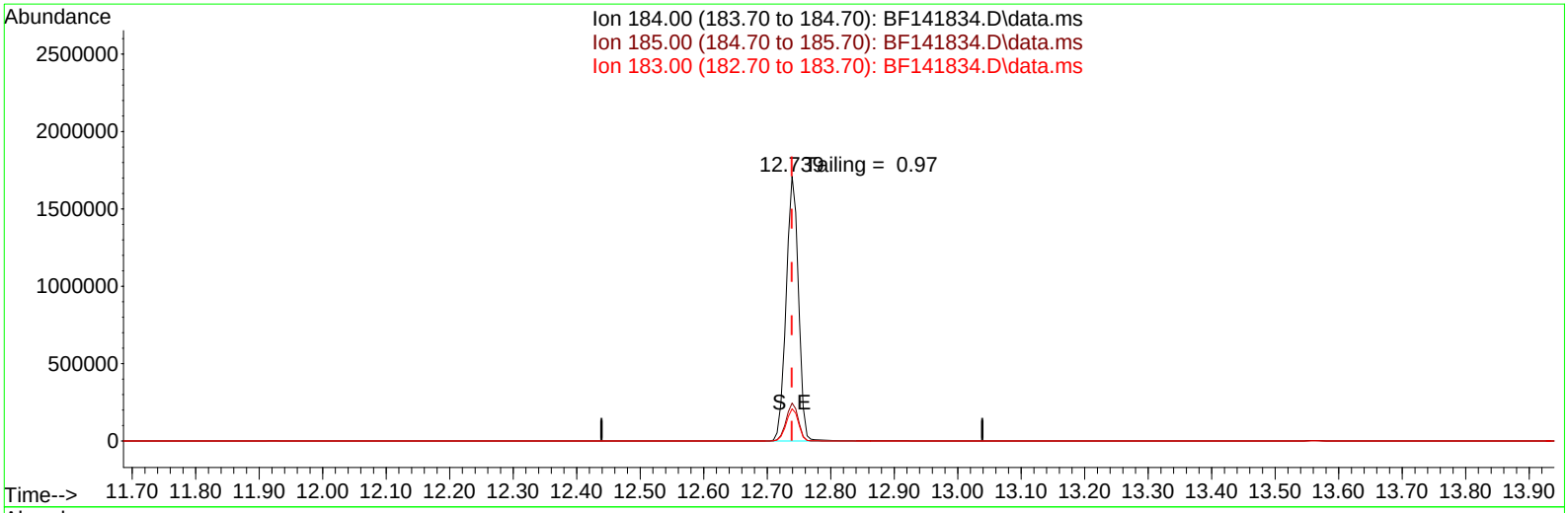
response 472195

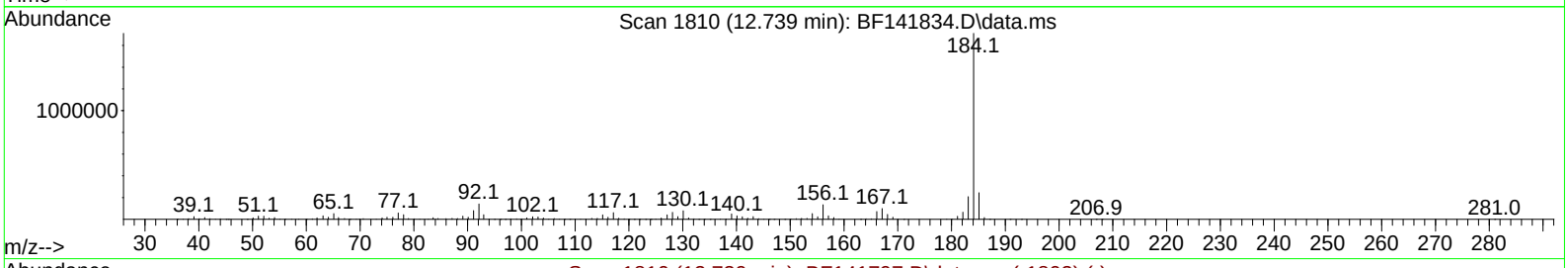
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.60	63.68
264.00	62.80	62.98
0.00	0.00	0.00

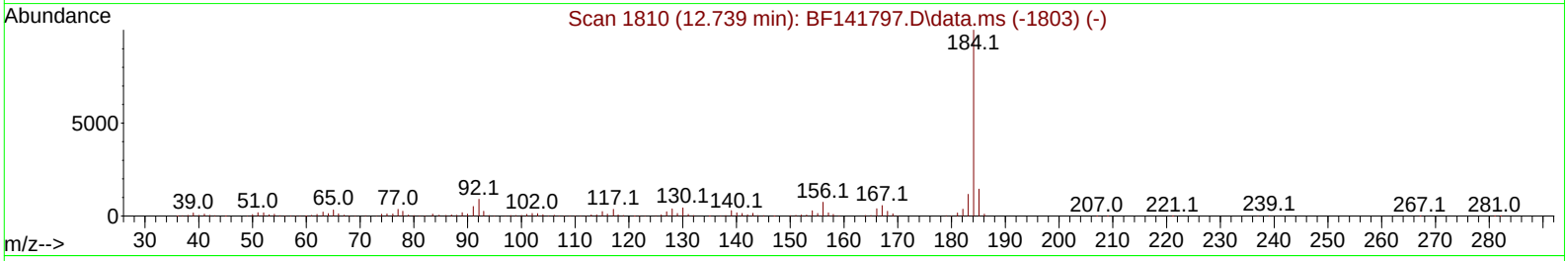
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141834.D
Acq On : 05 Mar 2025 09:40
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Mar 05 11:25:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration







TIC: BF141834.D\data.ms

(77) Benzidine

12.739min (+ 0.000) 56821.39 ng

response 2322895

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.50	14.34
183.00	11.70	12.16
0.00	0.00	0.00

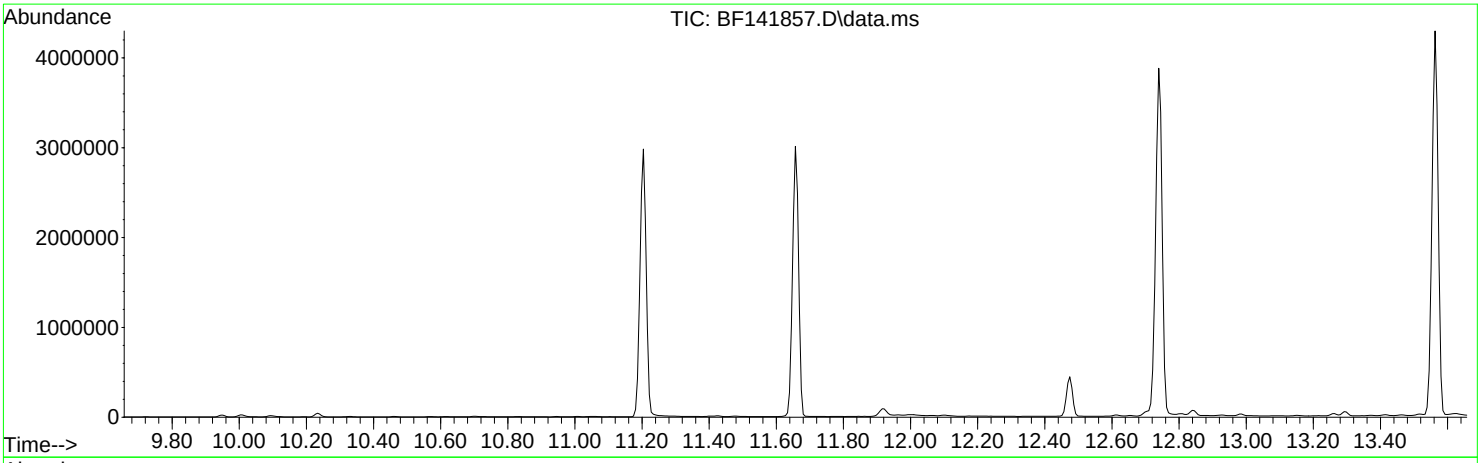
Sample Results: **BF141857.D**

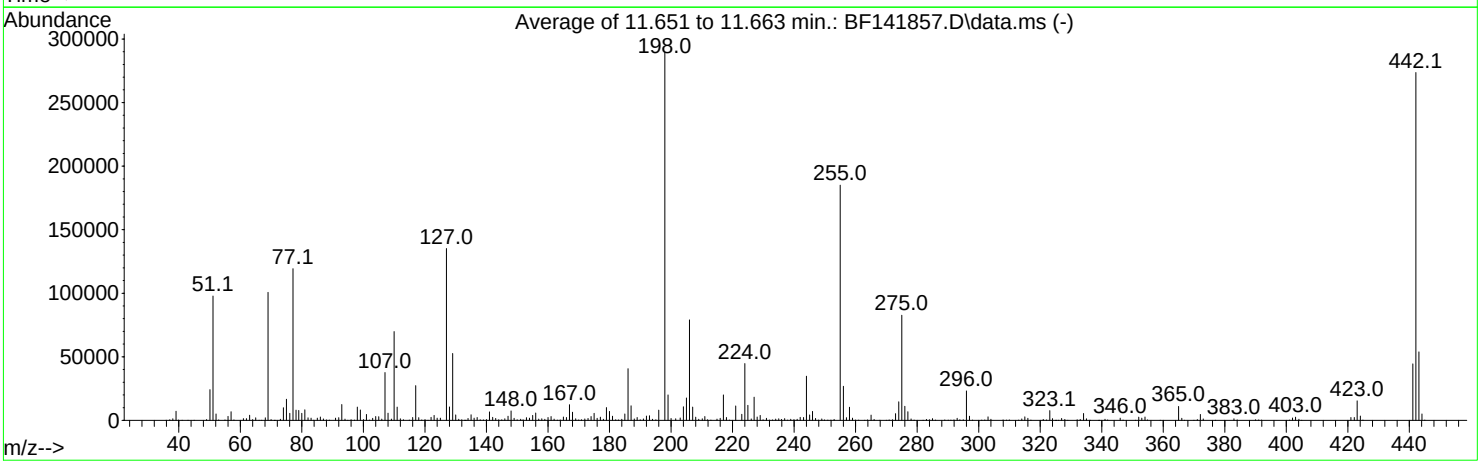
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141857.D
Acq On : 06 Mar 2025 08:34
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Feb 28 01:48:16 2025





AutoFind: Scans 1625, 1626, 1627; Background Corrected with Scan 1618

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.8	97827	PASS
68	69	0.00	2	2.0	1989	PASS
69	198	0.00	100	34.8	100752	PASS
70	69	0.00	2	0.7	703	PASS
127	198	10	80	46.7	135227	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	289387	PASS
199	198	5	9	6.9	20075	PASS
275	198	10	60	28.6	82683	PASS
365	198	1	100	3.8	11013	PASS
441	198	0.01	100	15.3	44419	PASS
442	442	50	100	100.0	273621	PASS
443	442	15	24	19.7	53861	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
3/6/2025	BNA_F	BF141857.D
Compound Name	**Response**	**Retention Time**
DDT	1093424	13.563
DDD	17368	13.292
DDE	1071	12.927
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
18439	1111863	1.66

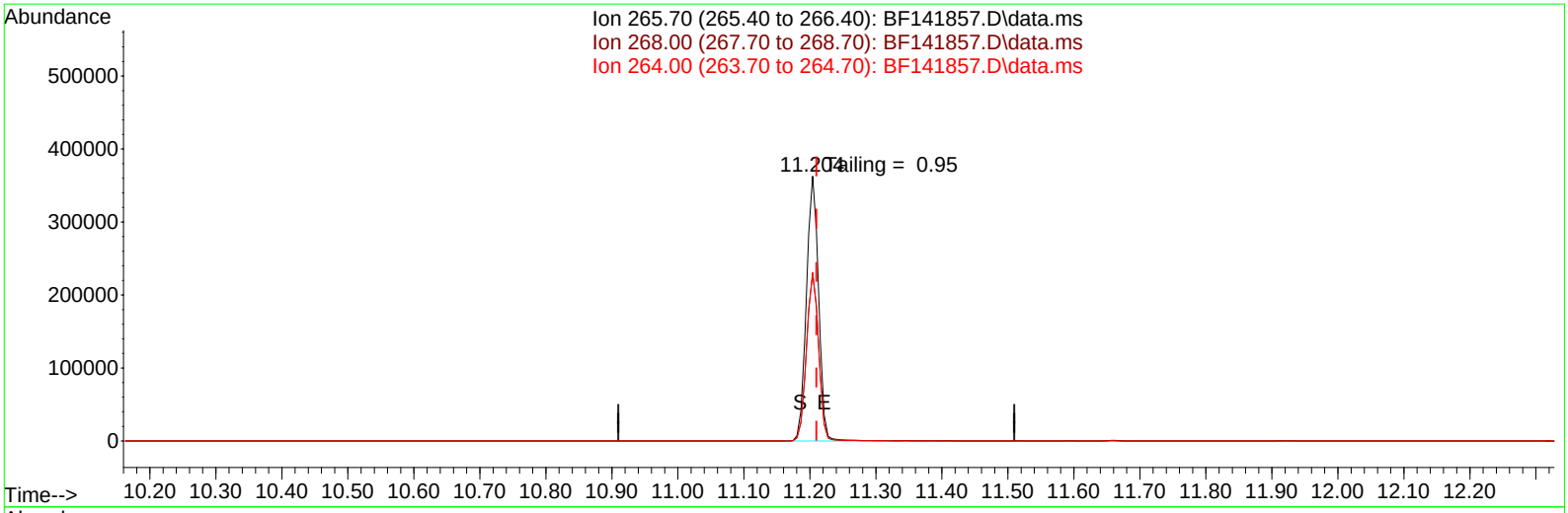
Instrument :
BNA_F
ClientSampleId :
DFTPP

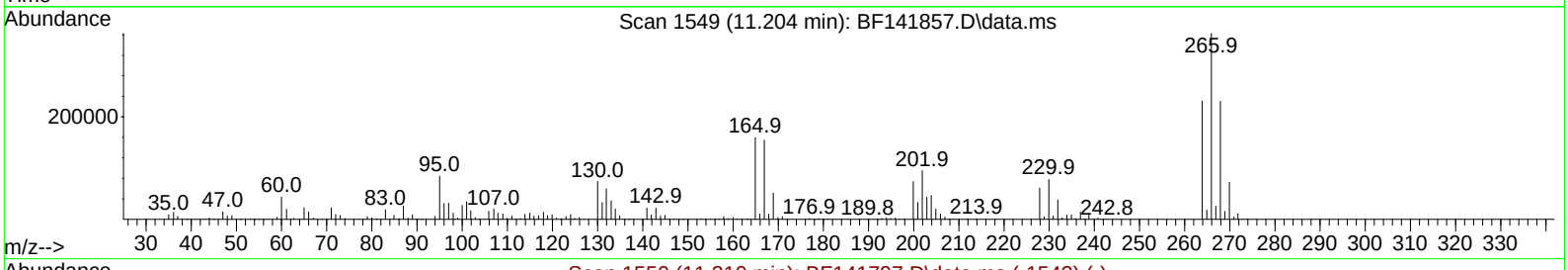
Sample Results: **BF141857.D**

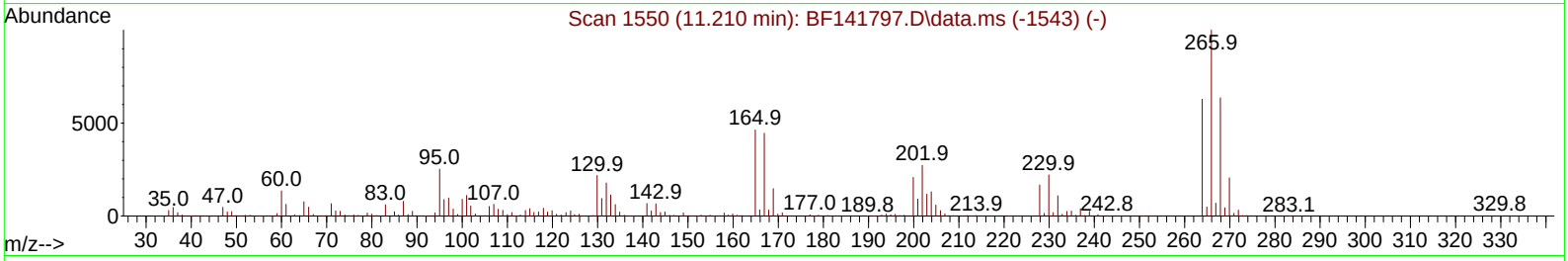
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141857.D
Acq On : 06 Mar 2025 08:34
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Mar 06 17:12:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration







TIC: BF141857.D\data.ms

(70) Pentachlorophenol (C)

11.204min (-0.006) 17552.30 ng

response 465884

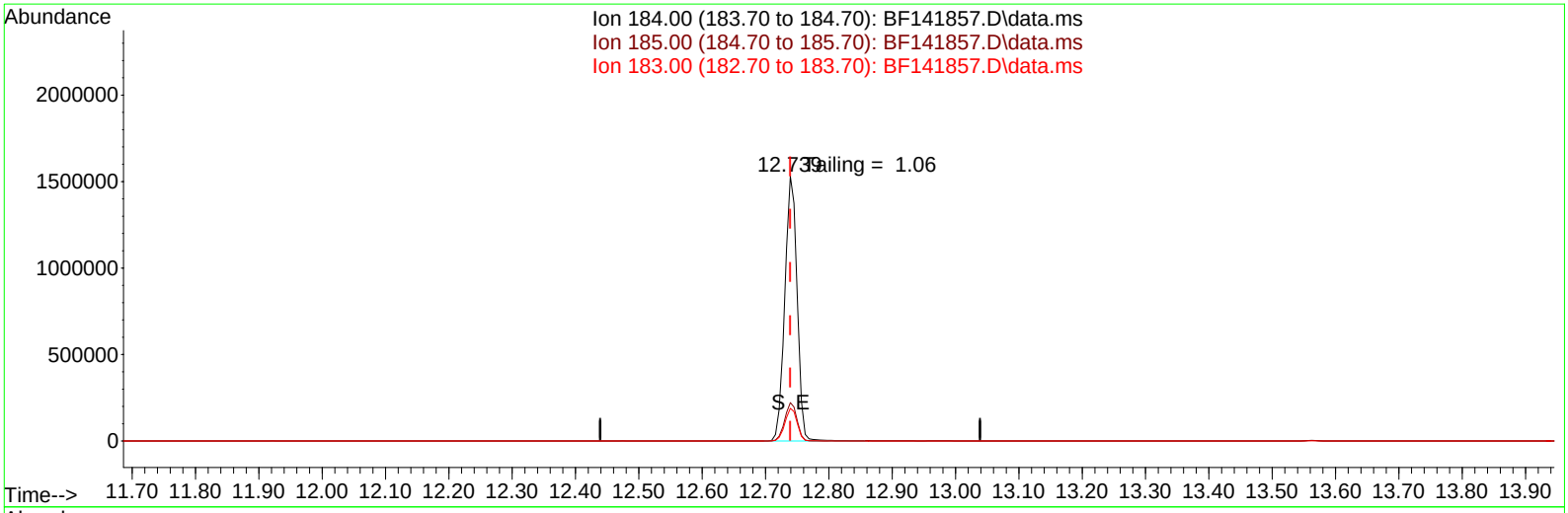
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.60	63.51
264.00	62.80	63.59
0.00	0.00	0.00

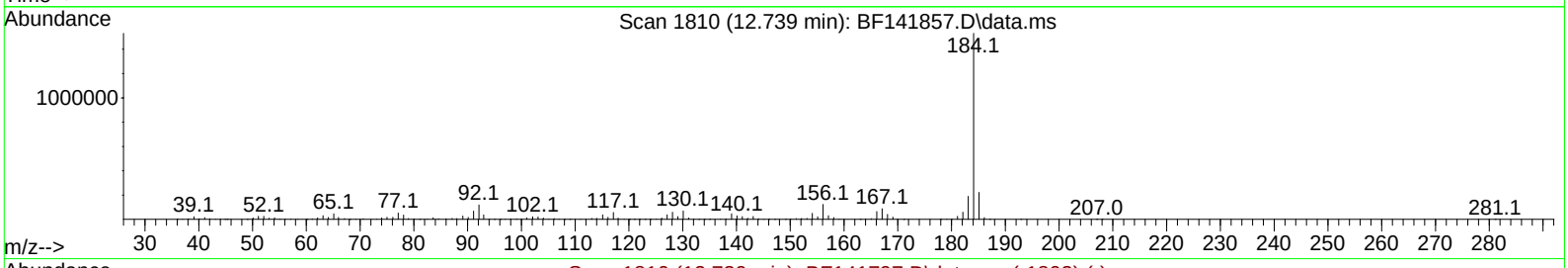
Sample Results: **BF141857.D**

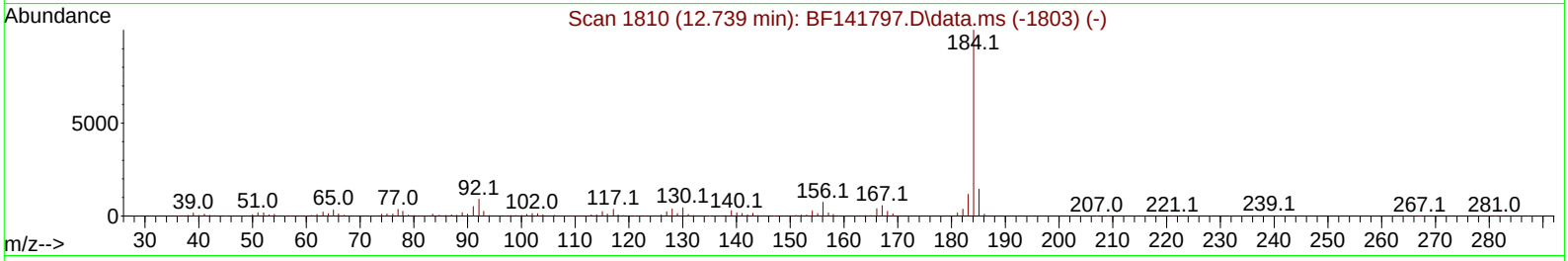
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141857.D
Acq On : 06 Mar 2025 08:34
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Mar 06 17:12:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration







TIC: BF141857.D\data.ms

(77) Benzidine

12.739min (+ 0.000) 49273.09 ng

response 2084395

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.50	14.51
183.00	11.70	12.37
0.00	0.00	0.00

Raw Data: **BF141861.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BL	SDG No.:	Q1488
Lab Sample ID:	PB166982BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141861.D	1	03/05/25 08:35	03/06/25 11:21	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.0	ug/L
108-95-2	Phenol	0.93	U	0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.00	ug/L
95-57-8	2-Chlorophenol	0.71	U	0.71	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.00	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.50	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.00	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.00	ug/L
78-59-1	Isophorone	1.10	U	1.10	5.00	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.88	U	0.88	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
106-47-8	4-Chloroaniline	1.30	U	1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.00	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.84	U	0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	1.10	U	1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	5.00	U	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	0.91	U	0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.97	U	0.97	5.00	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.00	ug/L
131-11-3	Dimethylphthalate	0.93	U	0.93	5.00	ug/L

Raw Data: **BF141861.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BL	SDG No.:	Q1488
Lab Sample ID:	PB166982BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141861.D	1	03/05/25 08:35	03/06/25 11:21	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.00	U	1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.00	ug/L
83-32-9	Acenaphthene	0.81	U	0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.40	U	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.0	ug/L
132-64-9	Dibenzofuran	0.93	U	0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.50	U	1.50	5.00	ug/L
84-66-2	Diethylphthalate	1.00	U	1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.98	U	0.98	5.00	ug/L
86-73-7	Fluorene	0.96	U	0.96	5.00	ug/L
100-01-6	4-Nitroaniline	2.00	U	2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.89	U	0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.95	U	0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	1.10	U	1.10	5.00	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.00	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.0	ug/L
85-01-8	Phenanthrene	0.89	U	0.89	5.00	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.00	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.00	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.00	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.94	U	0.94	5.00	ug/L
218-01-9	Chrysene	0.86	U	0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.50	U	2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	1.10	U	1.10	5.00	ug/L

Raw Data: **BF141861.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BL	SDG No.:	Q1488
Lab Sample ID:	PB166982BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141861.D	1	03/05/25 08:35	03/06/25 11:21	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.00	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.79	U	0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	130		15 (10) - 110 (139)	87%	SPK: 150
13127-88-3	Phenol-d6	123		15 (10) - 110 (134)	82%	SPK: 150
4165-60-0	Nitrobenzene-d5	109		30 (49) - 130 (133)	109%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.9		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	172	*	15 (44) - 110 (137)	115%	SPK: 150
1718-51-0	Terphenyl-d14	87.1		30 (48) - 130 (125)	87%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	212000	6.887			
1146-65-2	Naphthalene-d8	840000	8.163			
15067-26-2	Acenaphthene-d10	466000	9.916			
1517-22-2	Phenanthrene-d10	809000	11.404			
1719-03-5	Chrysene-d12	647000	14.039			
1520-96-3	Perylene-d12	495000	15.51			

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\BF030625\
Data File : BF141861.D
Acq On : 06 Mar 2025 11:21
Operator : RC/JU
Sample : PB166982BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Quant Time: Mar 06 11:43:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

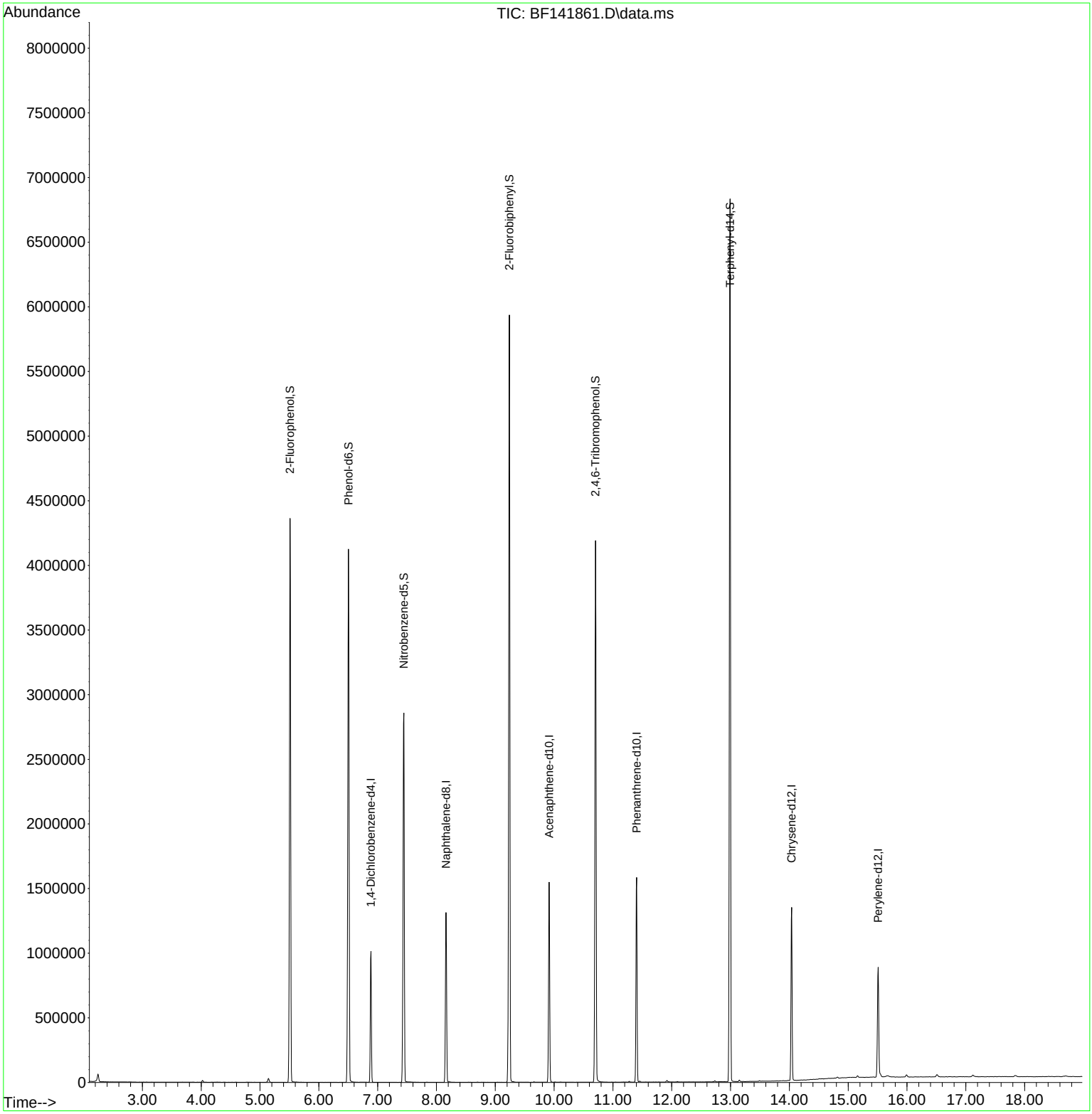
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	212037	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	840031	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	466101	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	808511	20.000	ng	0.00
76) Chrysene-d12	14.039	240	646602	20.000	ng	-0.01
86) Perylene-d12	15.510	264	495069	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	1727468	130.107	ng	0.01
7) Phenol-d6	6.504	99	2126999	123.079	ng	0.00
23) Nitrobenzene-d5	7.445	82	1428020	108.662	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	752761	172.027	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	2730516	93.933	ng	0.00
79) Terphenyl-d14	12.992	244	3482297	87.134	ng	0.00
Target Compounds						Qvalue

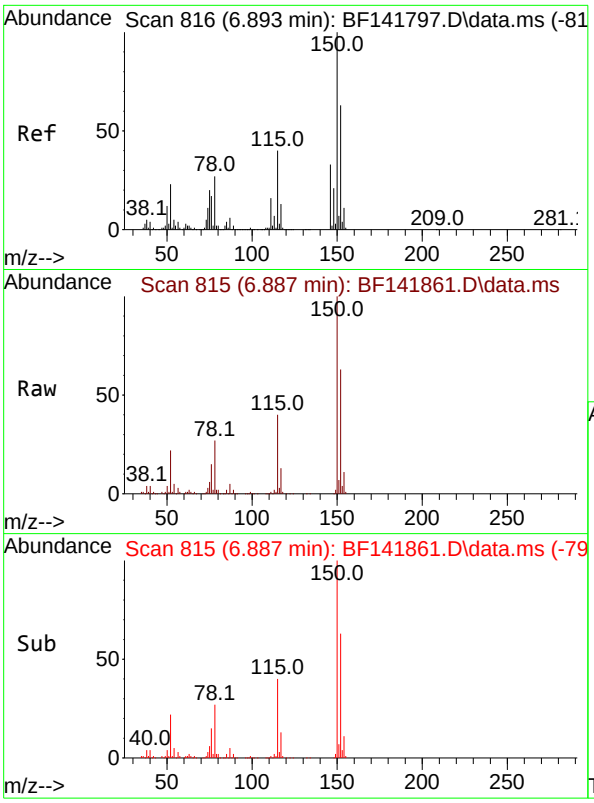
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141861.D
Acq On : 06 Mar 2025 11:21
Operator : RC/JU
Sample : PB166982BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Quant Time: Mar 06 11:43:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



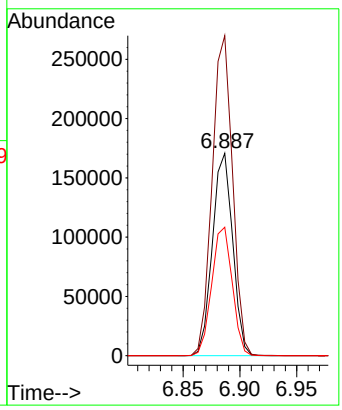


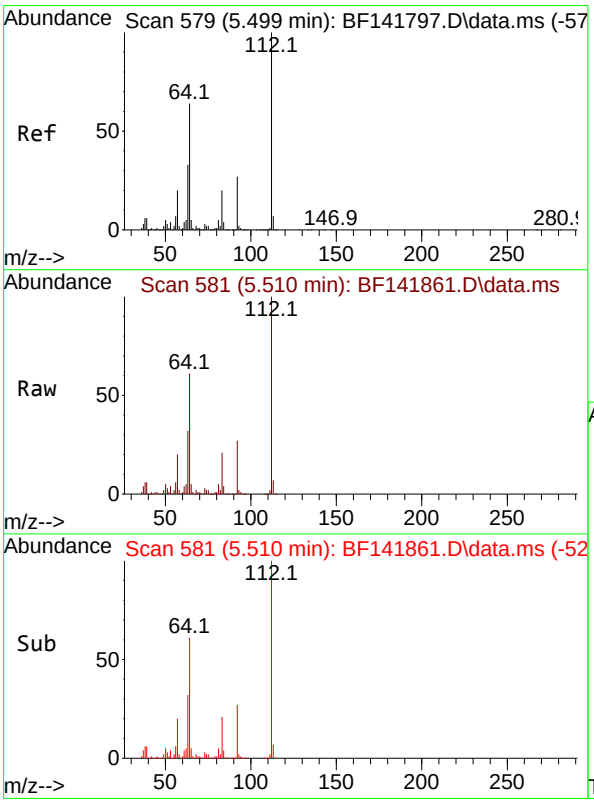
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Tgt Ion:152 Resp: 212037

Ion	Ratio	Lower	Upper
152	100		
150	158.0	127.5	191.3
115	63.4	51.4	77.2

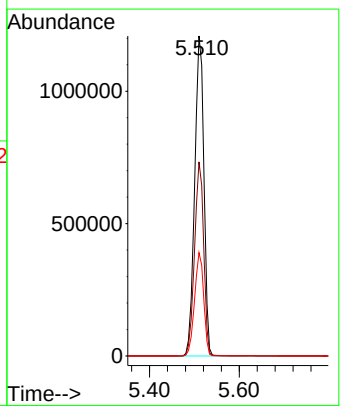


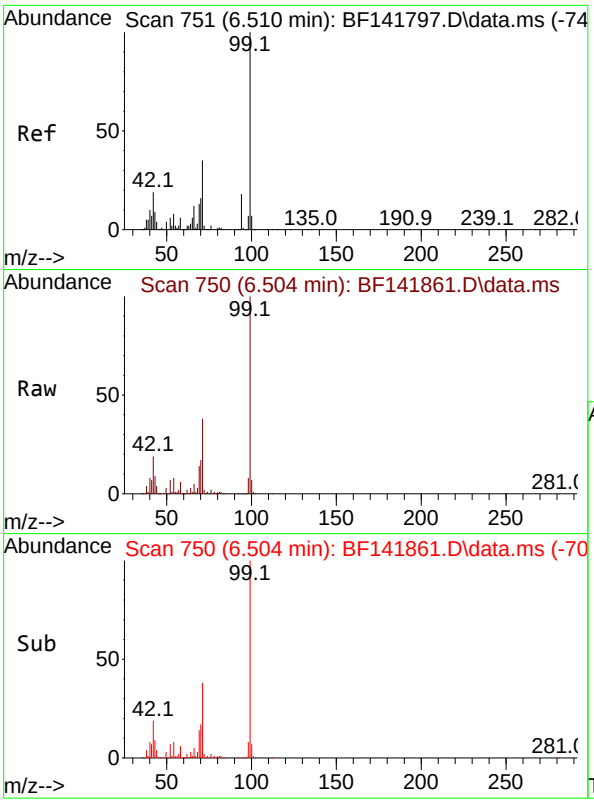


#5
2-Fluorophenol
Concen: 130.107 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.012 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Tgt Ion:112 Resp: 1727468

Ion	Ratio	Lower	Upper
112	100		
64	60.7	51.3	76.9
63	32.3	26.2	39.4



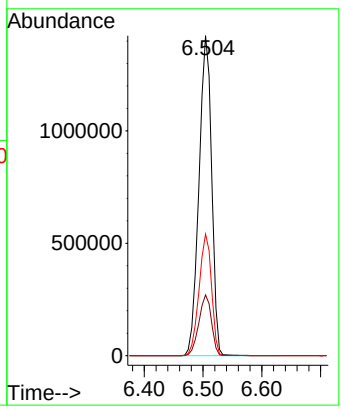


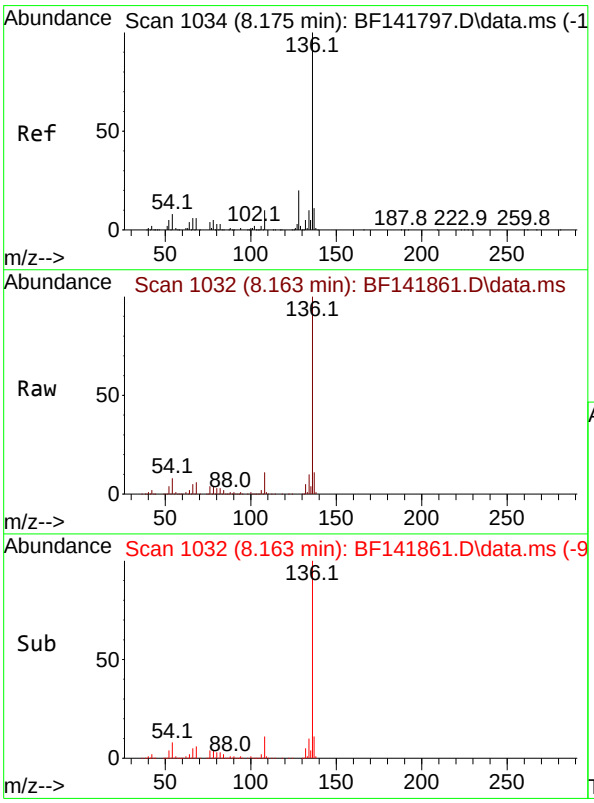
#7
Phenol-d6
Concen: 123.079 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Tgt Ion: 99 Resp: 2126999

Ion	Ratio	Lower	Upper
99	100		
42	19.0	15.2	22.8
71	38.0	28.2	42.2

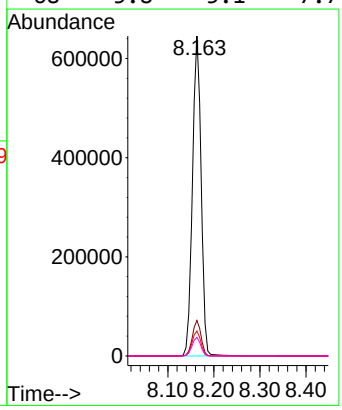


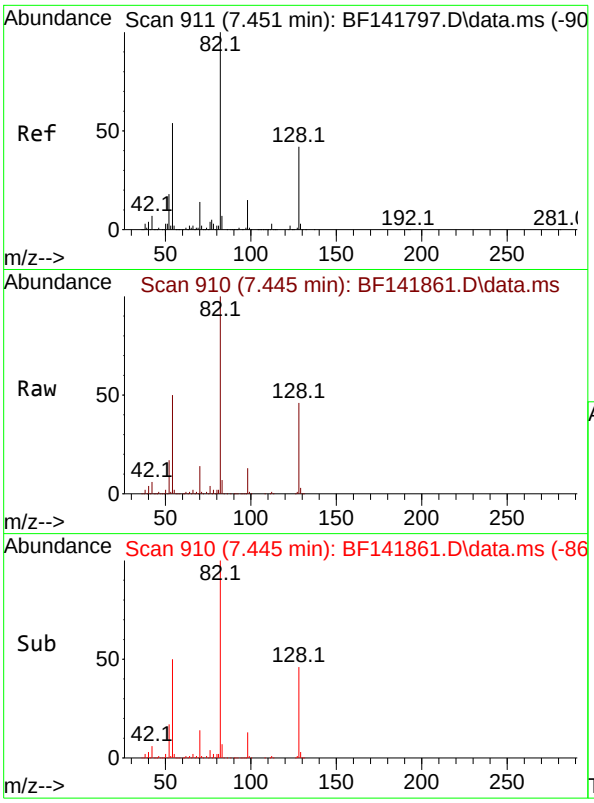


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Tgt Ion:136 Resp: 840031

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	7.8	6.9	10.3
68	5.8	5.1	7.7



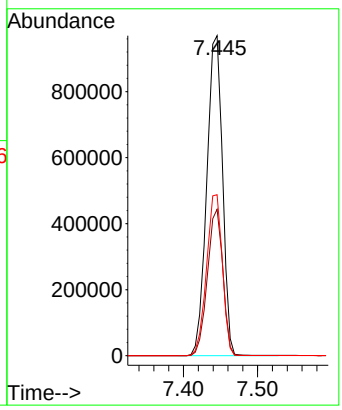


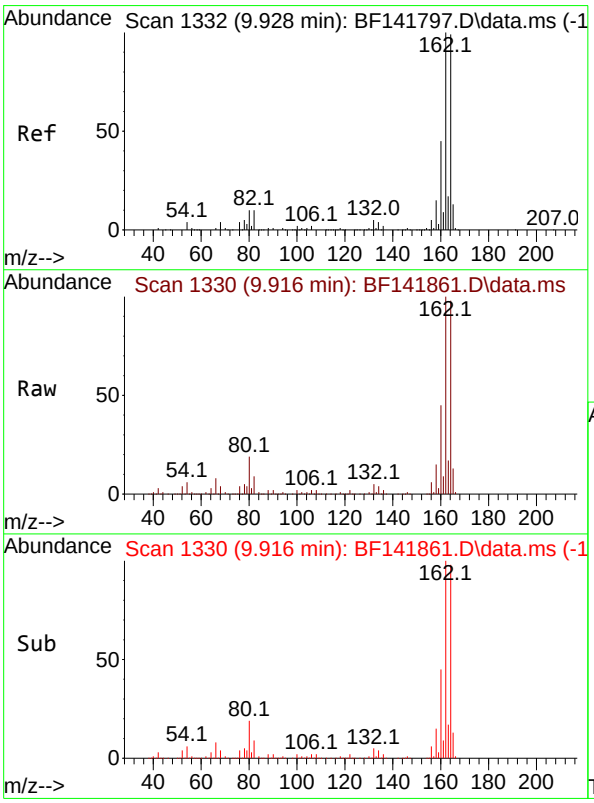
#23
Nitrobenzene-d5
Concen: 108.662 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Tgt Ion: 82 Resp: 1428020

Ion	Ratio	Lower	Upper
82	100		
128	45.8	33.5	50.3
54	50.3	42.7	64.1

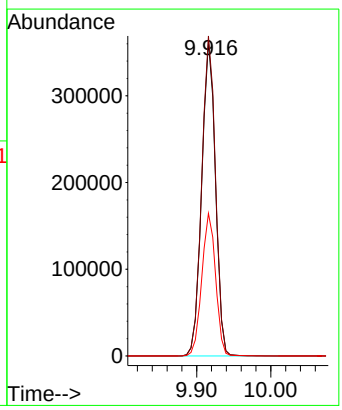


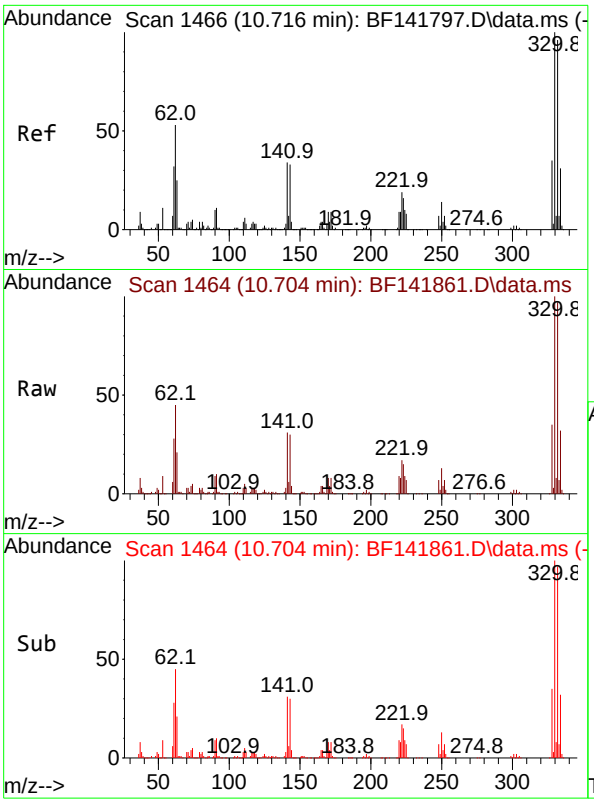


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Tgt Ion:164 Resp: 466101

Ion	Ratio	Lower	Upper
164	100		
162	101.9	80.6	120.8
160	45.4	36.3	54.5



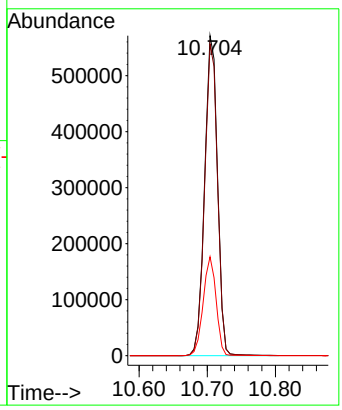


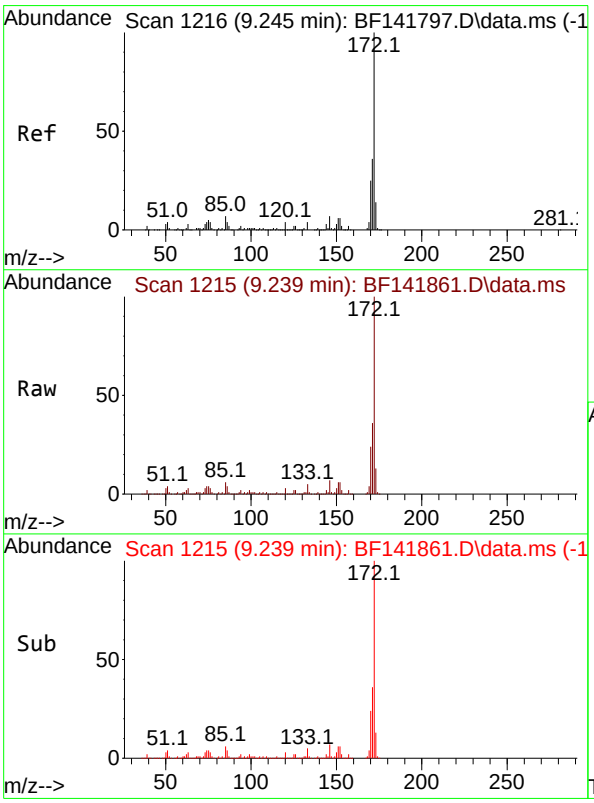
#42
2,4,6-Tribromophenol
Concen: 172.027 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Tgt Ion:330 Resp: 752761

Ion	Ratio	Lower	Upper
330	100		
332	97.4	76.6	115.0
141	31.0	29.0	43.4

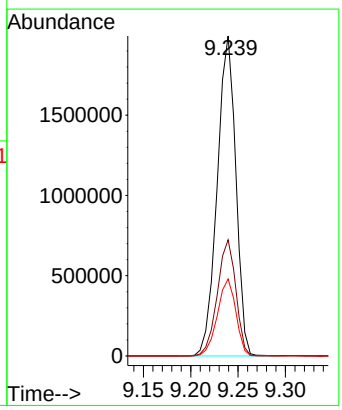


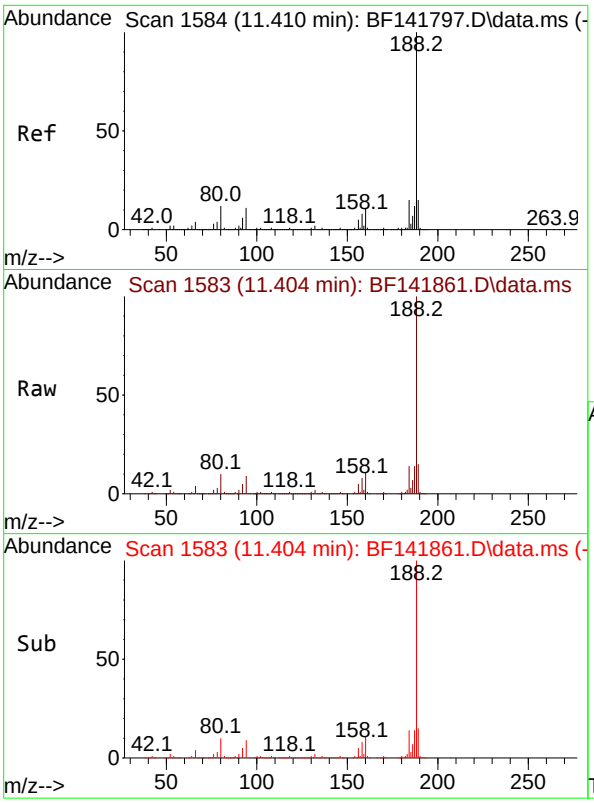


#45
2-Fluorobiphenyl
Concen: 93.933 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Tgt Ion:172 Resp: 2730516

Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.2	43.8
170	24.1	19.7	29.5



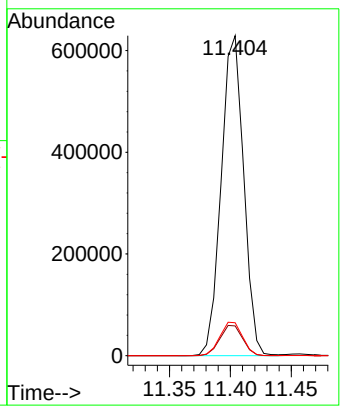


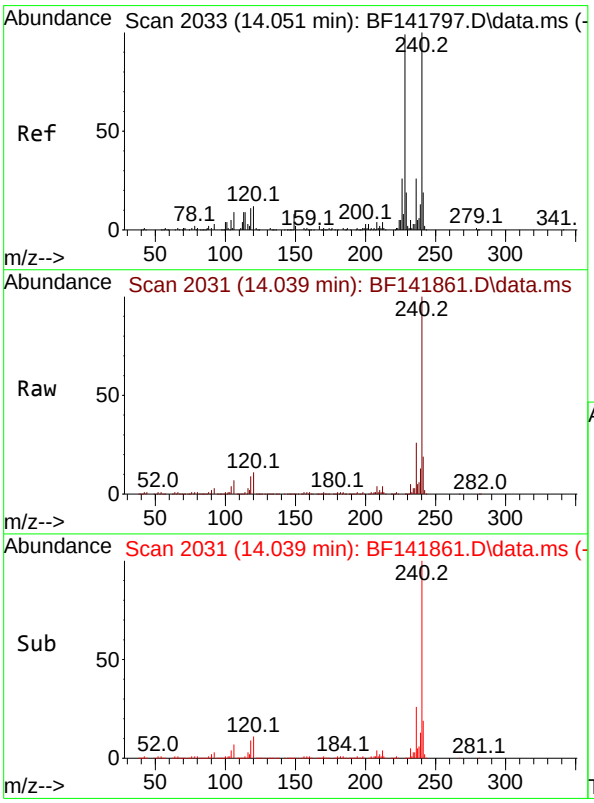
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Tgt Ion:188 Resp: 808511

Ion	Ratio	Lower	Upper
188	100		
94	9.3	8.9	13.3
80	10.3	9.7	14.5

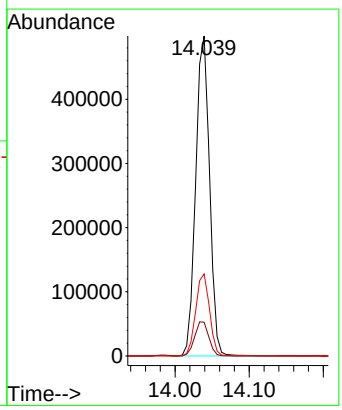


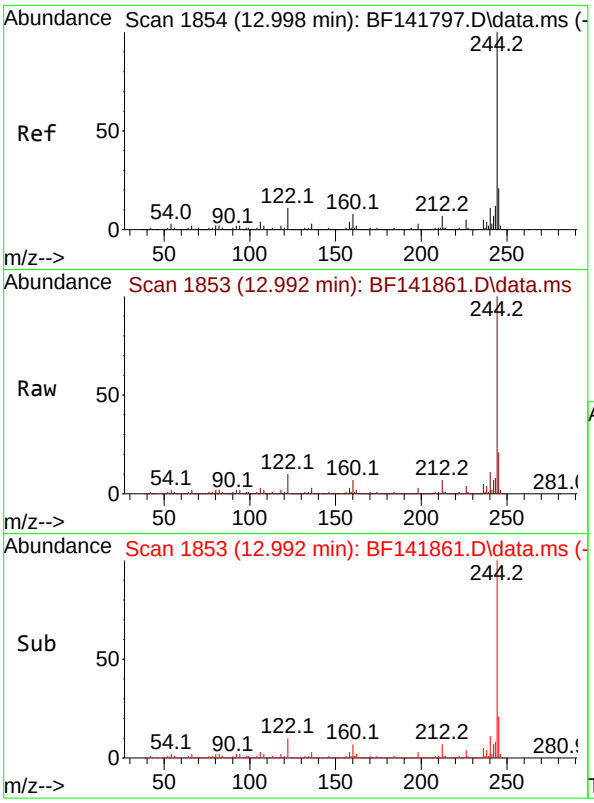


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Tgt Ion:240 Resp: 646602

Ion	Ratio	Lower	Upper
240	100		
120	10.6	9.7	14.5
236	25.6	21.0	31.4



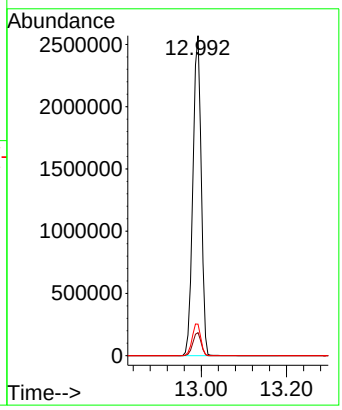


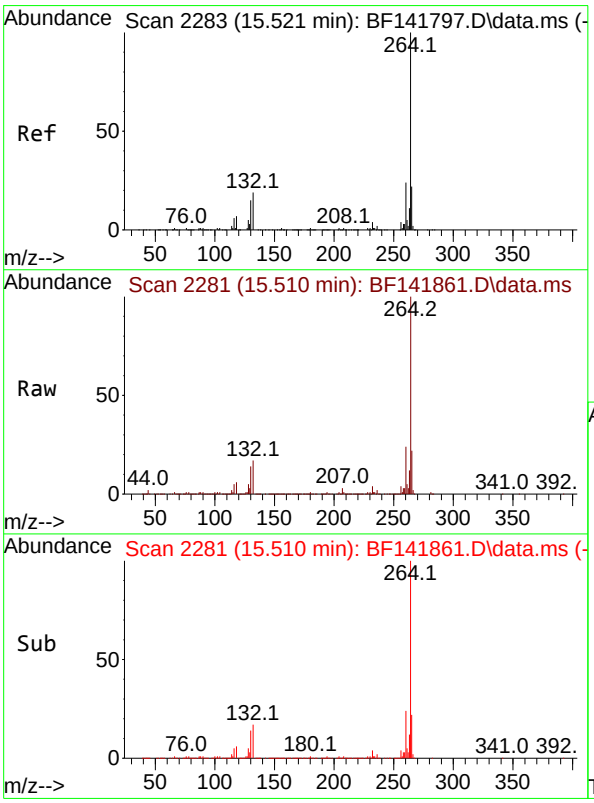
#79
Terphenyl-d14
Concen: 87.134 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Tgt Ion:244 Resp: 3482297

Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	9.8	9.0	13.6

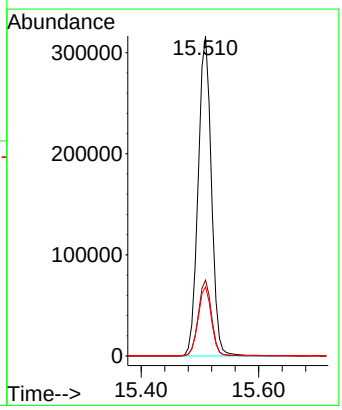




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Tgt Ion:264 Resp: 495069

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.9	28.3
265	21.6	17.4	26.0



Sample Results: **BF141861.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141861.D
Acq On : 06 Mar 2025 11:21
Operator : RC/JU
Sample : PB166982BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166982BL

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-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141861.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.246	16	26	32	rVB	55435	102945	1.11%	0.208%
2	5.510	574	581	586	rBV	4362587	6158250	66.30%	12.413%
3	6.504	743	750	755	rBV	4124259	6130832	66.00%	12.358%
4	6.887	809	815	820	rBV	1012818	1272257	13.70%	2.565%
5	7.445	903	910	915	rBV	2856844	4193404	45.14%	8.453%
6	8.163	1026	1032	1037	rBV	1313313	1694537	18.24%	3.416%
7	9.239	1208	1215	1220	rBV	5935221	8109581	87.30%	16.347%
8	9.916	1324	1330	1343	rBV	1547614	1993087	21.46%	4.018%
9	10.704	1457	1464	1469	rBV	4189751	5504064	59.25%	11.095%
10	11.404	1577	1583	1588	rBV	1582941	2040421	21.97%	4.113%
11	12.992	1846	1853	1858	rBV	6829406	9289114	100.00%	18.724%
12	14.039	2025	2031	2036	rBV	1339299	1749387	18.83%	3.526%
13	15.510	2274	2281	2297	rBV	850460	1372181	14.77%	2.766%

Sum of corrected areas: 49610060

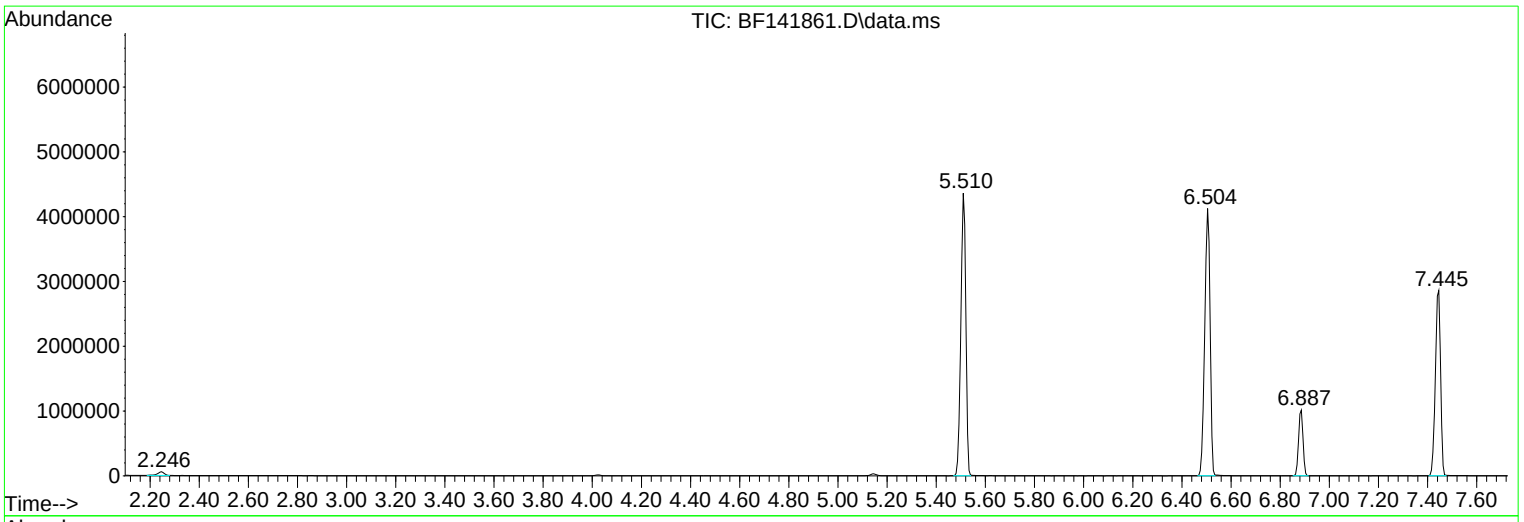
Sample Results: **BF141861.D**

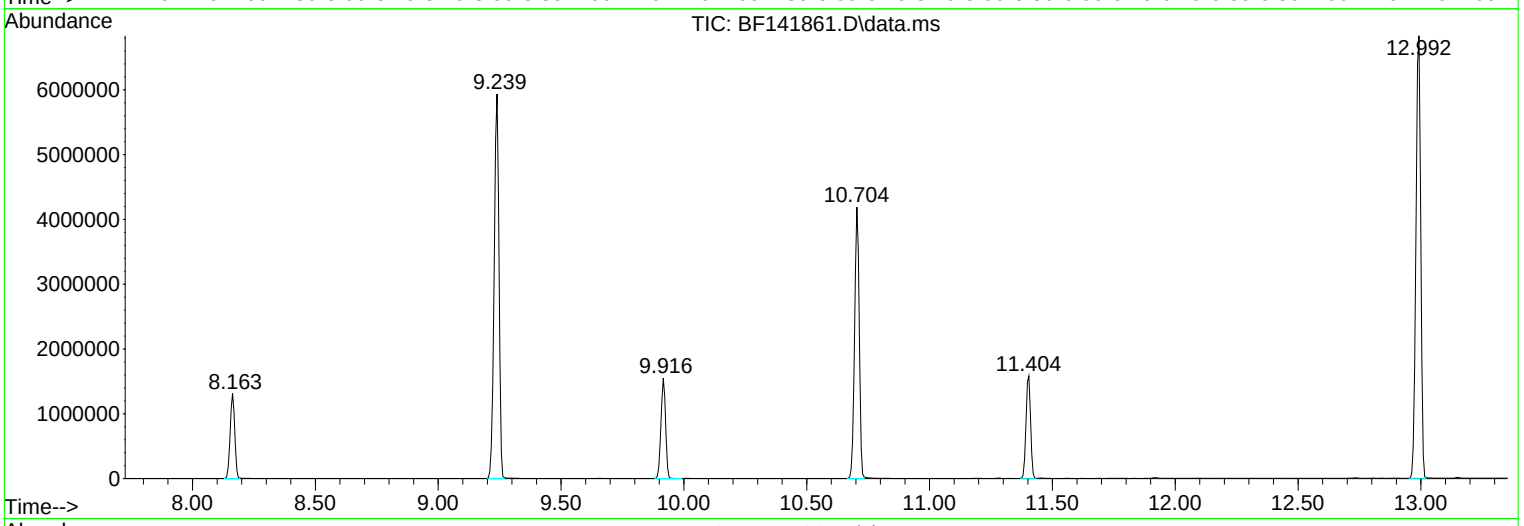
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141861.D
Acq On : 06 Mar 2025 11:21
Operator : RC/JU
Sample : PB166982BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

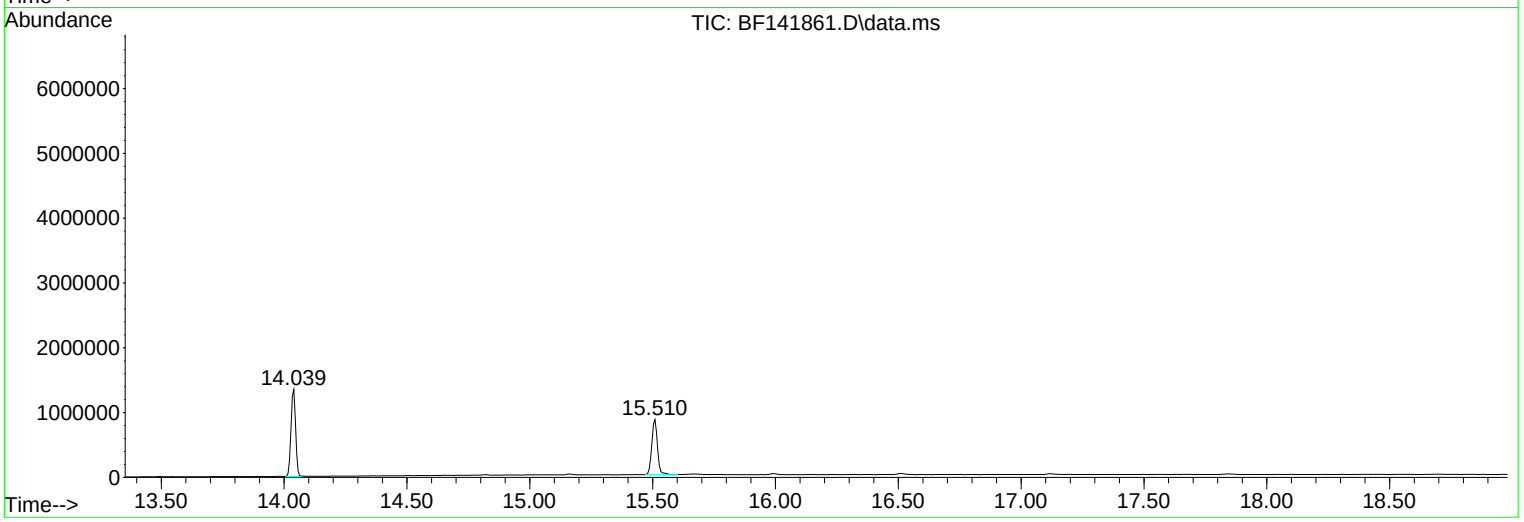
Instrument :
BNA_F
ClientSampleId :
PB166982BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Library Search Compound Report

Sample Results: **BF141861.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141861.D
Acq On : 06 Mar 2025 11:21
Operator : RC/JU
Sample : PB166982BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

No Library Search Compounds Detected
****

Sample Results: **BF141861.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141861.D
Acq On : 06 Mar 2025 11:21
Operator : RC/JU
Sample : PB166982BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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

Raw Data: **BF141859.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166984BL	SDG No.:	Q1488
Lab Sample ID:	PB166984BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

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

Raw Data: **BF141859.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166984BL	SDG No.:	Q1488
Lab Sample ID:	PB166984BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

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

Raw Data: **BF141859.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166984BL	SDG No.:	Q1488
Lab Sample ID:	PB166984BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	82.6	U	82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	93.0	U	93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.1	U	78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.2	U	81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.1	U	80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.8	U	86.8	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.7	U	74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	126		30 (18) - 130 (112)	84%	SPK: 150
13127-88-3	Phenol-d6	119		30 (15) - 130 (107)	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	105		30 (18) - 130 (107)	105%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.5		30 (20) - 130 (109)	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	167		30 (10) - 130 (116)	111%	SPK: 150
1718-51-0	Terphenyl-d14	82.5		30 (10) - 130 (105)	83%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	219000	6.887			
1146-65-2	Naphthalene-d8	872000	8.163			
15067-26-2	Acenaphthene-d10	478000	9.916			
1517-22-2	Phenanthrene-d10	848000	11.404			
1719-03-5	Chrysene-d12	692000	14.039			
1520-96-3	Perylene-d12	552000	15.51			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	76.0	J		2.24	ug/Kg

Raw Data: **BF141859.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	PB166984BL			SDG No.:	Q1488
Lab Sample ID:	PB166984BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

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\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Quant Time: Mar 06 10:55:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

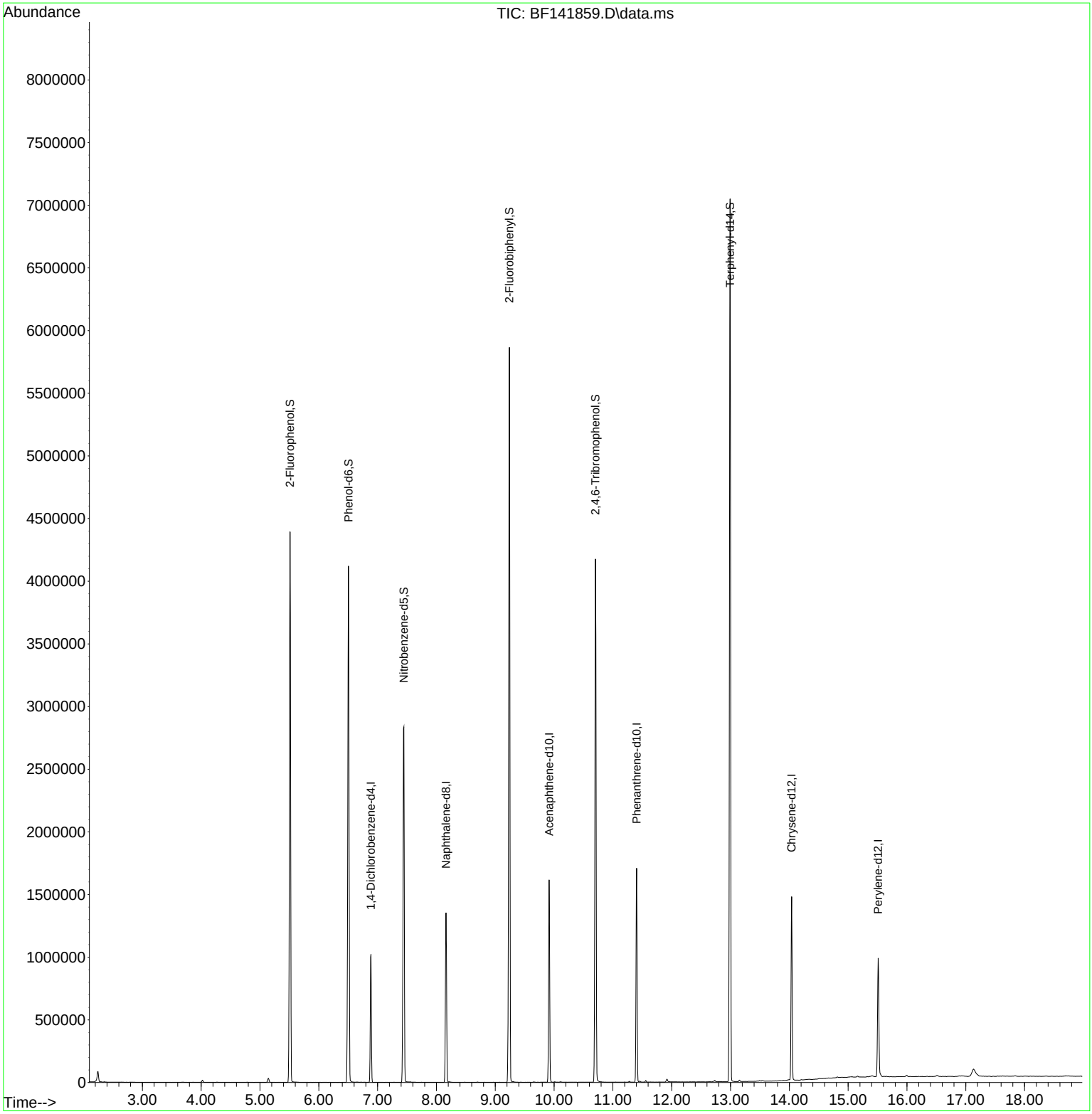
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	218862	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	871720	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	477596	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	848035	20.000	ng	0.00
76) Chrysene-d12	14.039	240	691946	20.000	ng	-0.01
86) Perylene-d12	15.510	264	552165	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	1730529	126.273	ng	0.01
7) Phenol-d6	6.504	99	2123556	119.048	ng	0.00
23) Nitrobenzene-d5	7.445	82	1433035	105.079	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	746687	166.531	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	2725247	91.496	ng	0.00
79) Terphenyl-d14	12.992	244	3529158	82.519	ng	0.00
Target Compounds						Qvalue

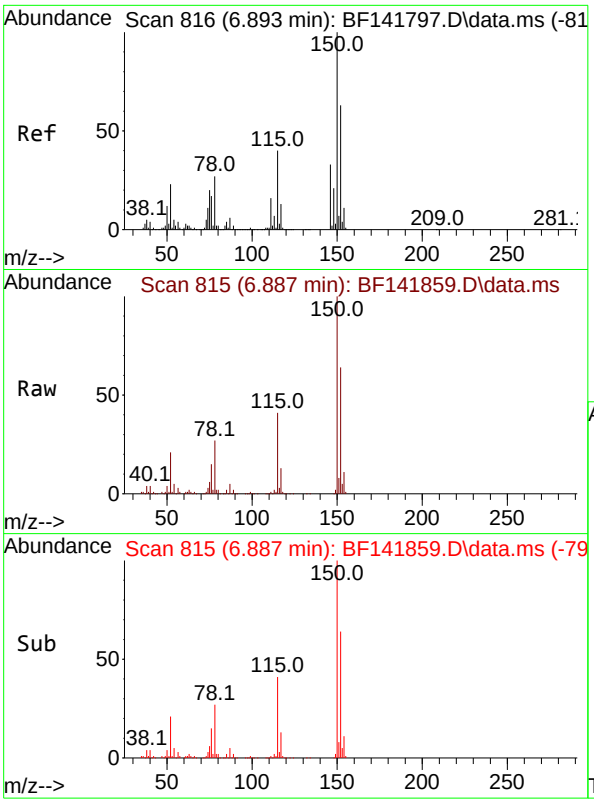
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Quant Time: Mar 06 10:55:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



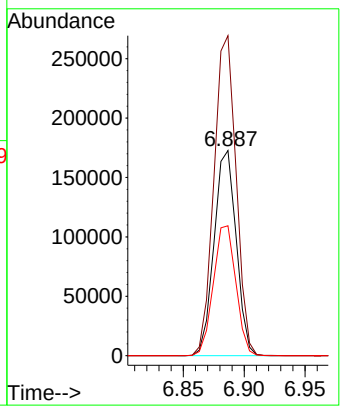


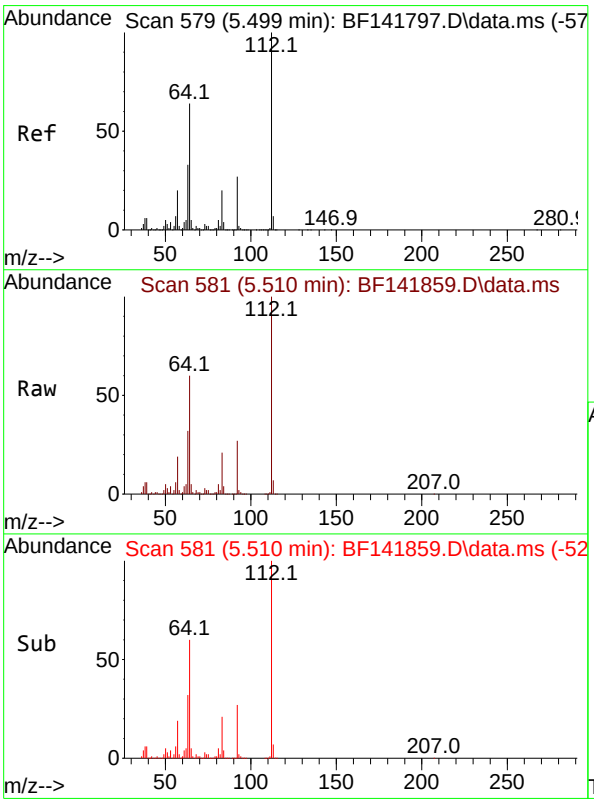
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Tgt Ion:152 Resp: 218862

Ion	Ratio	Lower	Upper
152	100		
150	155.9	127.5	191.3
115	63.3	51.4	77.2

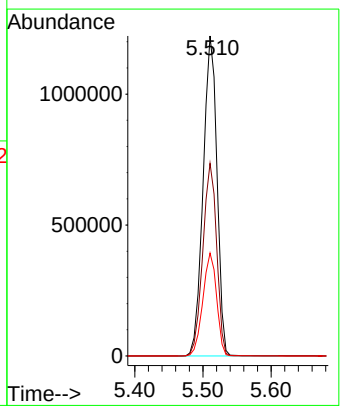


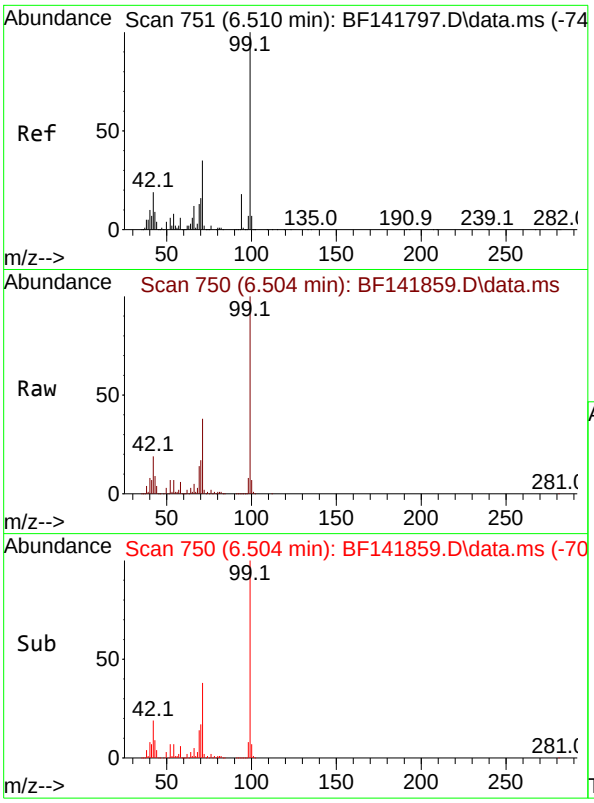


#5
2-Fluorophenol
Concen: 126.273 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:112 Resp: 1730529

Ion	Ratio	Lower	Upper
112	100		
64	60.2	51.3	76.9
63	32.2	26.2	39.4



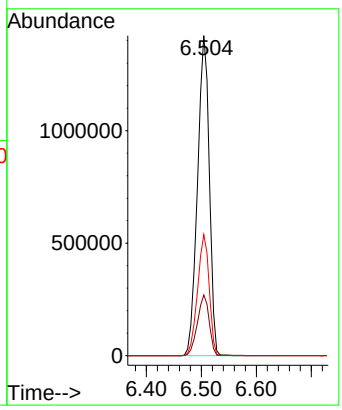


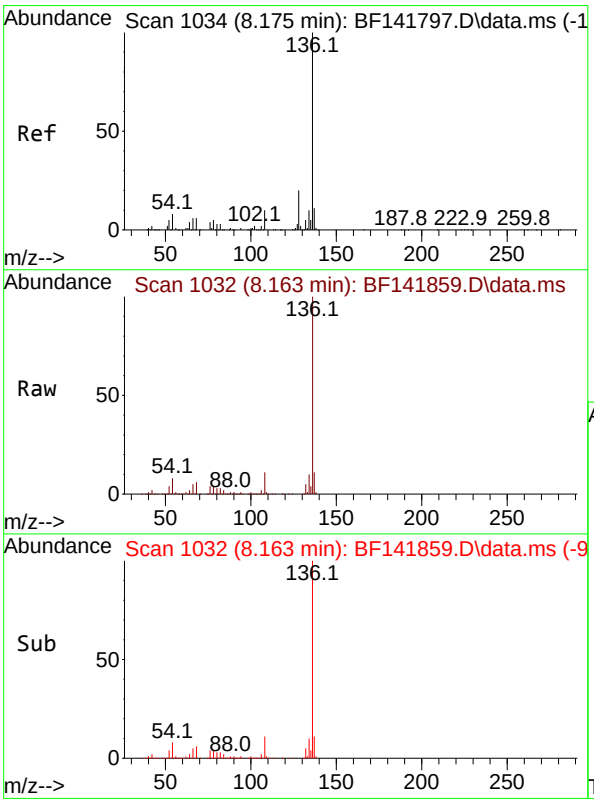
#7
Phenol-d6
Concen: 119.048 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Tgt Ion: 99 Resp: 2123556

Ion	Ratio	Lower	Upper
99	100		
42	19.0	15.2	22.8
71	37.8	28.2	42.2

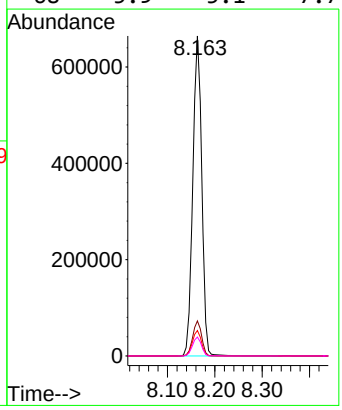


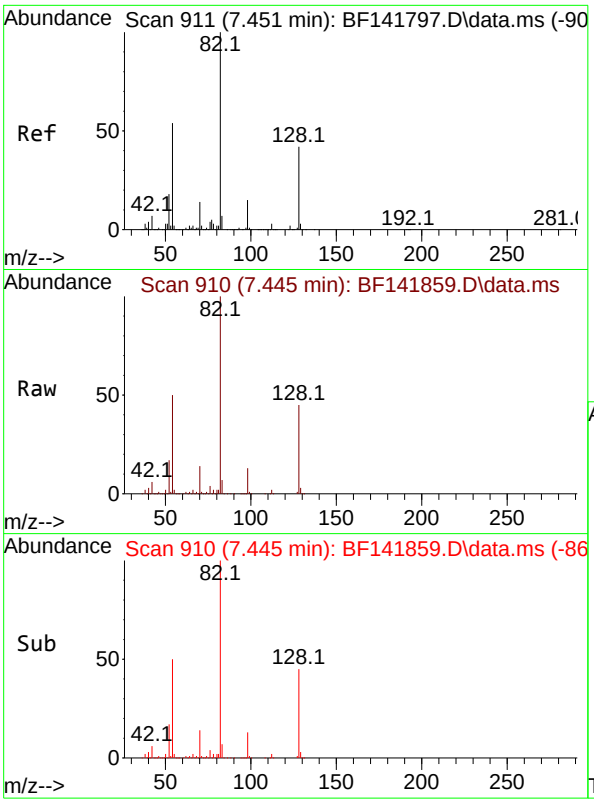


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:136 Resp: 871720

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	7.9	6.9	10.3
68	5.9	5.1	7.7



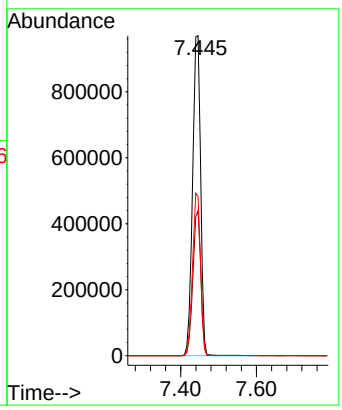


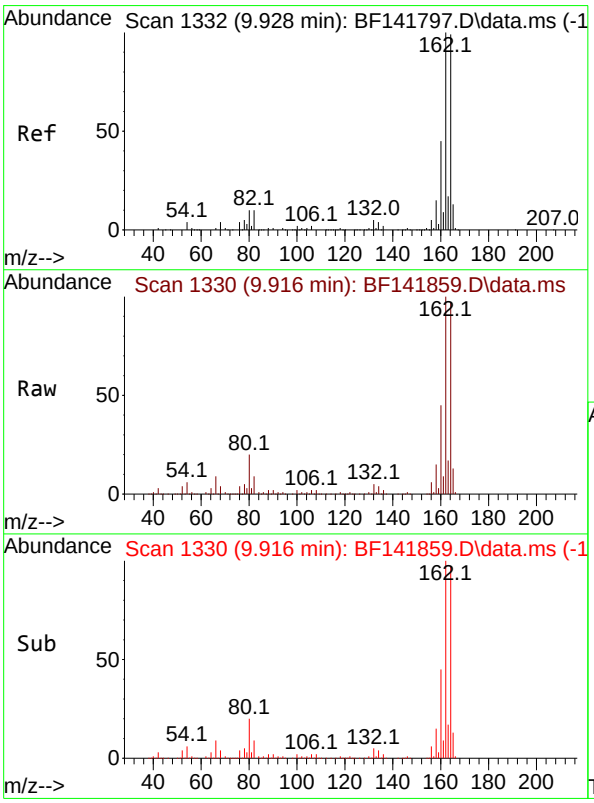
#23
Nitrobenzene-d5
Concen: 105.079 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Tgt Ion: 82 Resp: 1433035

Ion	Ratio	Lower	Upper
82	100		
128	45.3	33.5	50.3
54	49.8	42.7	64.1

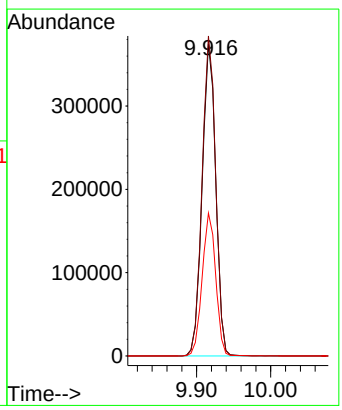


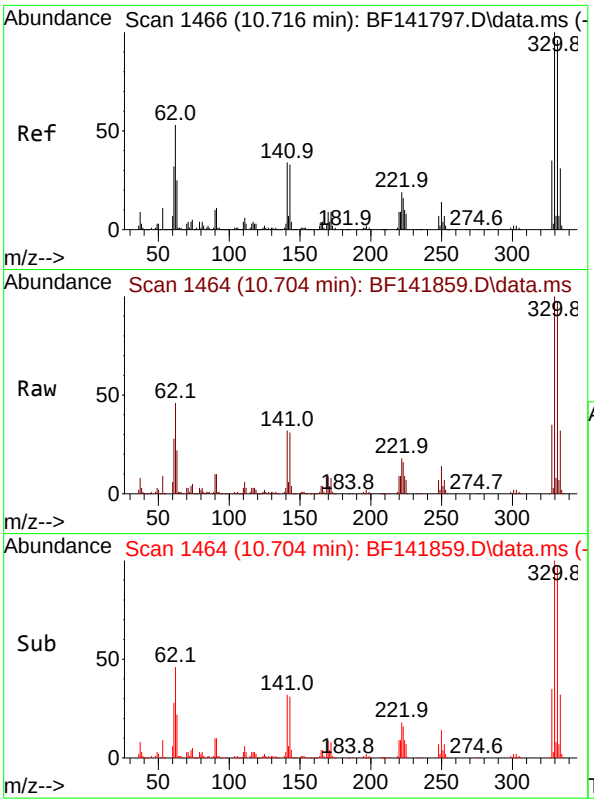


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:164 Resp: 477596

Ion	Ratio	Lower	Upper
164	100		
162	102.6	80.6	120.8
160	45.8	36.3	54.5



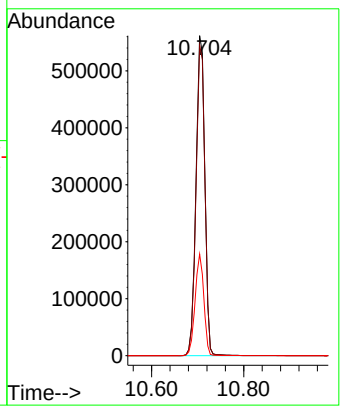


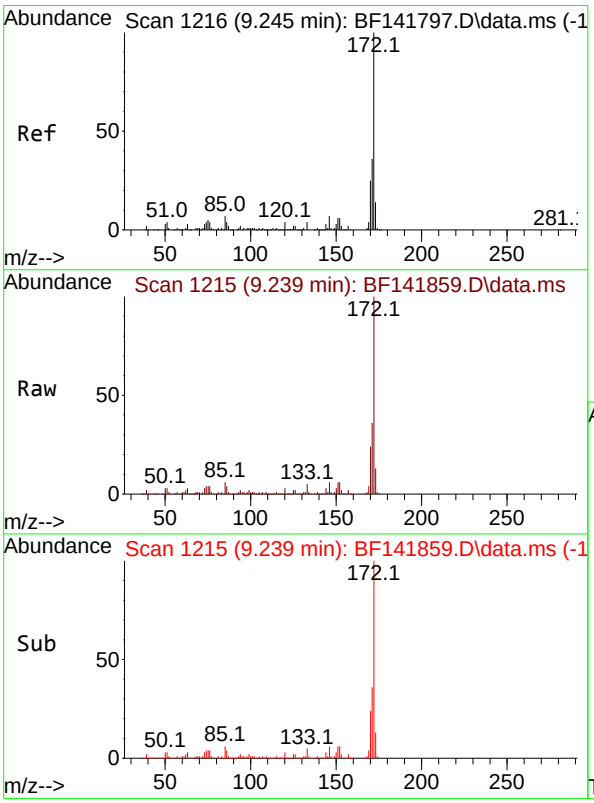
#42
2,4,6-Tribromophenol
Concen: 166.531 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Tgt Ion:330 Resp: 746687

Ion	Ratio	Lower	Upper
330	100		
332	97.1	76.6	115.0
141	31.4	29.0	43.4

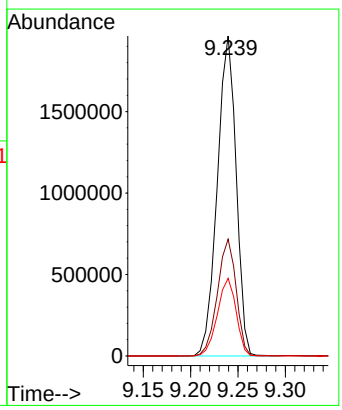


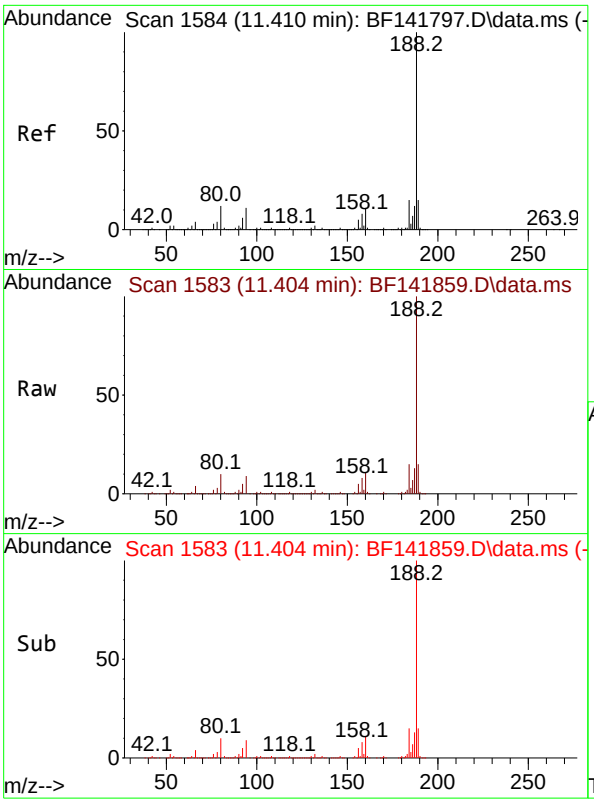


#45
2-Fluorobiphenyl
Concen: 91.496 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:172 Resp: 2725247

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.2	43.8
170	24.2	19.7	29.5



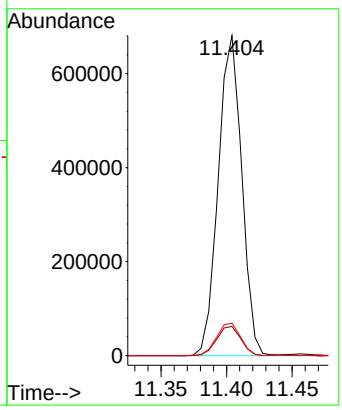


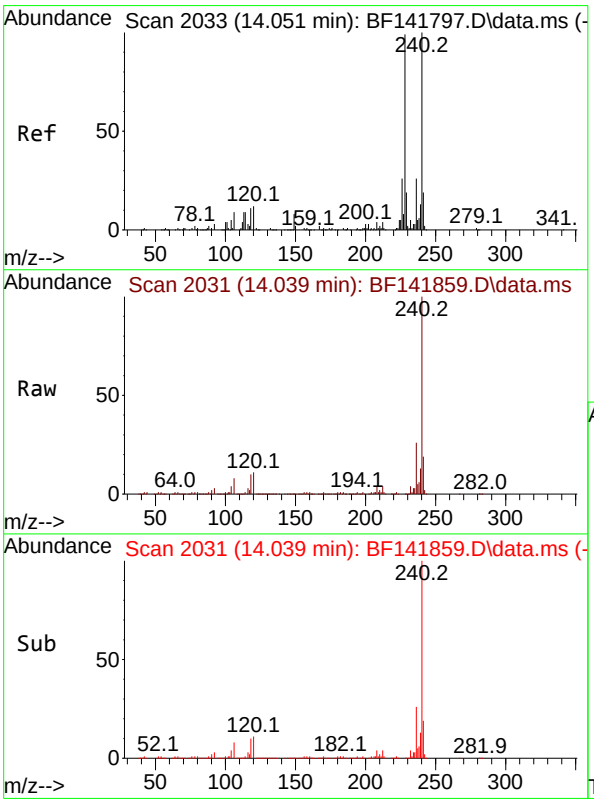
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Tgt Ion:188 Resp: 848035

Ion	Ratio	Lower	Upper
188	100		
94	9.1	8.9	13.3
80	10.1	9.7	14.5

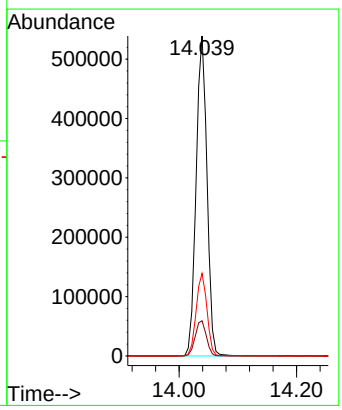


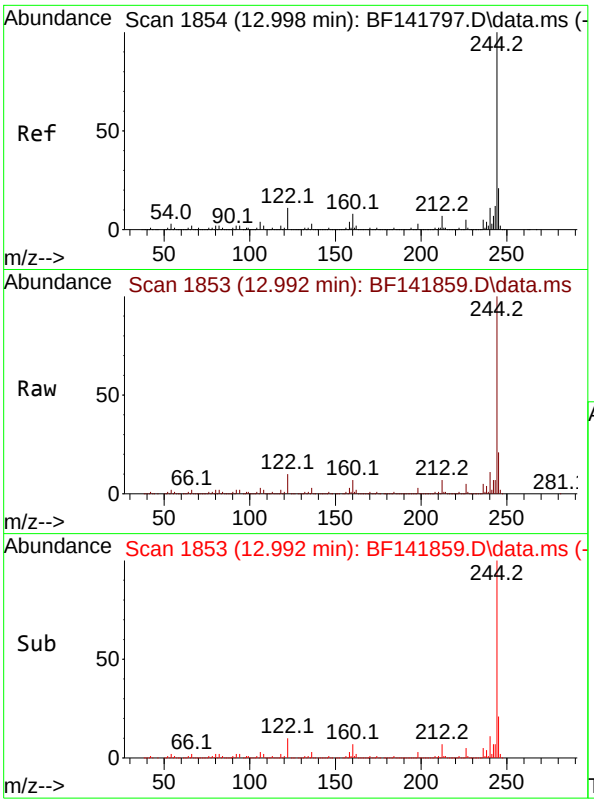


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:240 Resp: 691946

Ion	Ratio	Lower	Upper
240	100		
120	11.0	9.7	14.5
236	25.8	21.0	31.4



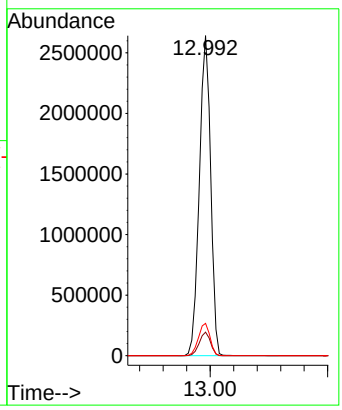


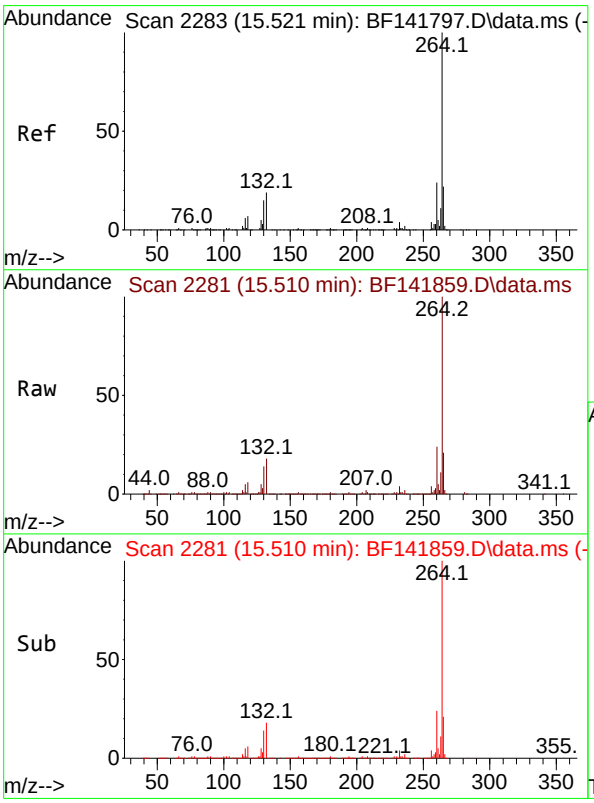
#79
Terphenyl-d14
Concen: 82.519 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Tgt Ion:244 Resp: 3529158

Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.0	9.0
122	10.1	9.0	13.6

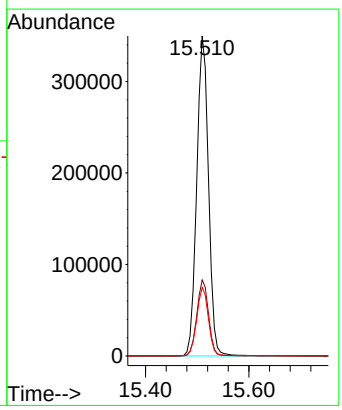




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:264 Resp: 552165

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.9	28.3
265	21.4	17.4	26.0



Sample Results: **BF141859.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166984BL

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-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141859.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	14	25	31	rBV	81610	149341	1.59%	0.297%
2	5.510	574	581	586	rBV	4392822	6178026	65.67%	12.282%
3	6.504	743	750	755	rBV	4119823	6120759	65.06%	12.169%
4	6.887	809	815	820	rBV	1021567	1312062	13.95%	2.609%
5	7.445	903	910	915	rBV	2836233	4167253	44.30%	8.285%
6	8.163	1026	1032	1040	rBV	1353027	1764969	18.76%	3.509%
7	9.239	1208	1215	1220	rBV	5863702	8102468	86.13%	16.108%
8	9.916	1324	1330	1341	rBV	1615098	2058136	21.88%	4.092%
9	10.704	1457	1464	1469	rBV	4174632	5509630	58.57%	10.954%
10	11.404	1577	1583	1588	rBV	1707669	2137813	22.72%	4.250%
11	12.992	1846	1853	1858	rBV	7045093	9407646	100.00%	18.703%
12	14.039	2025	2031	2041	rVB	1463852	1886443	20.05%	3.750%
13	15.510	2275	2281	2295	rVB	945753	1504913	16.00%	2.992%

Sum of corrected areas: 50299459

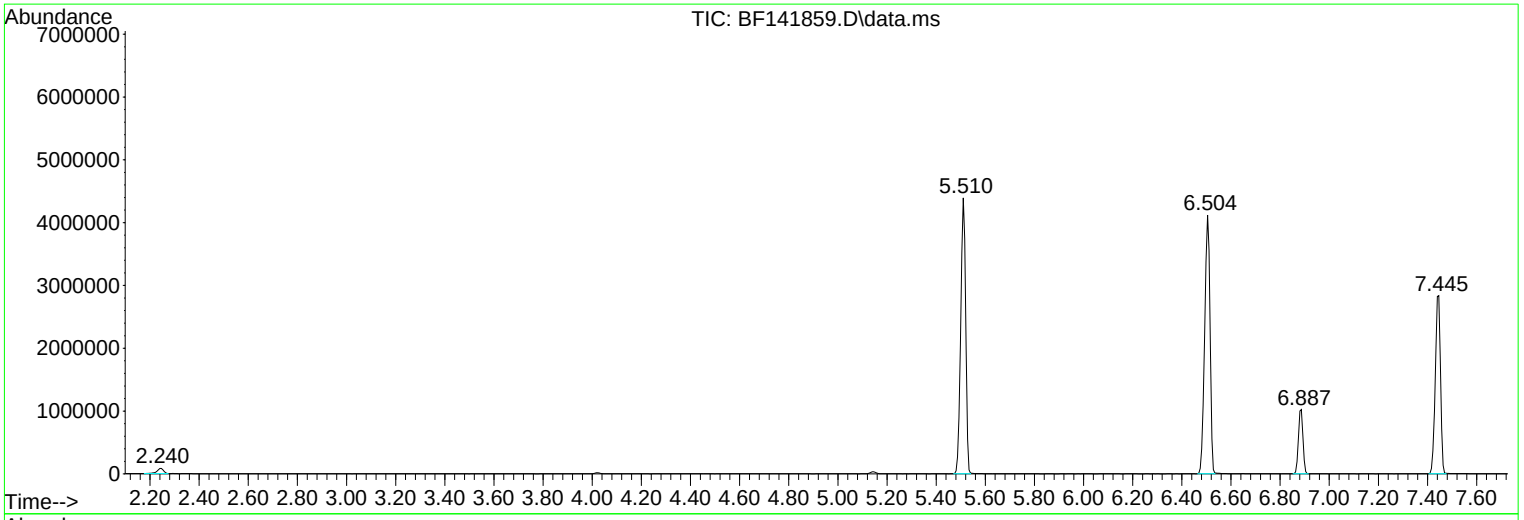
Sample Results: **BF141859.D**

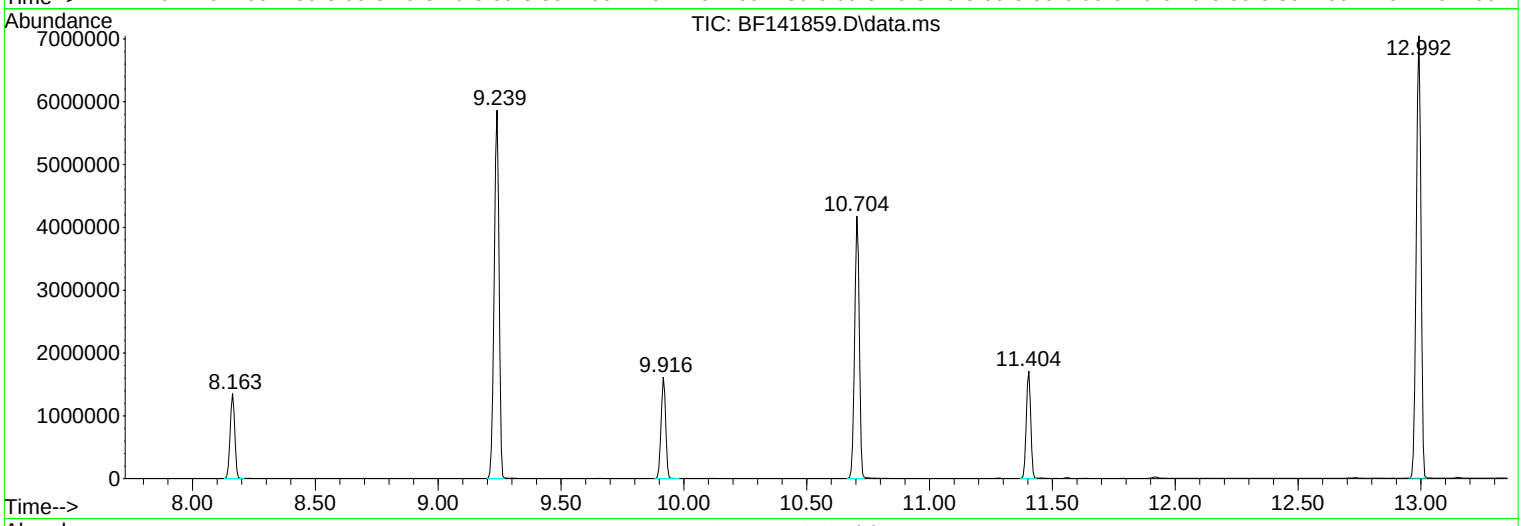
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

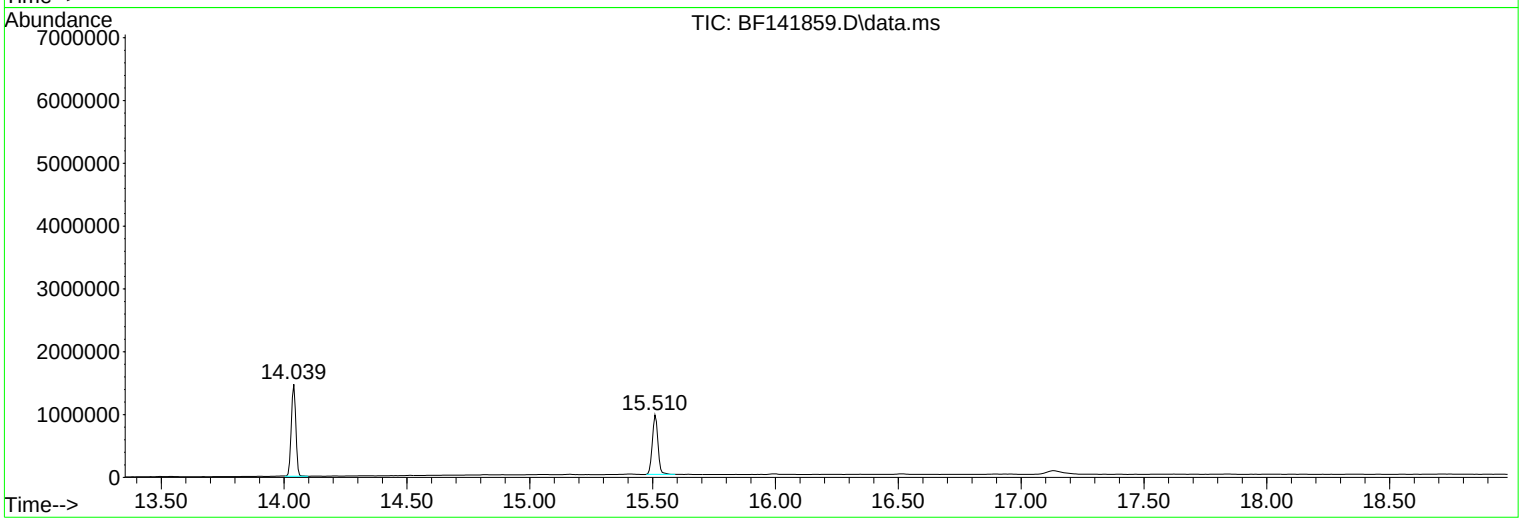
Instrument :
BNA_F
ClientSampleId :
PB166984BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

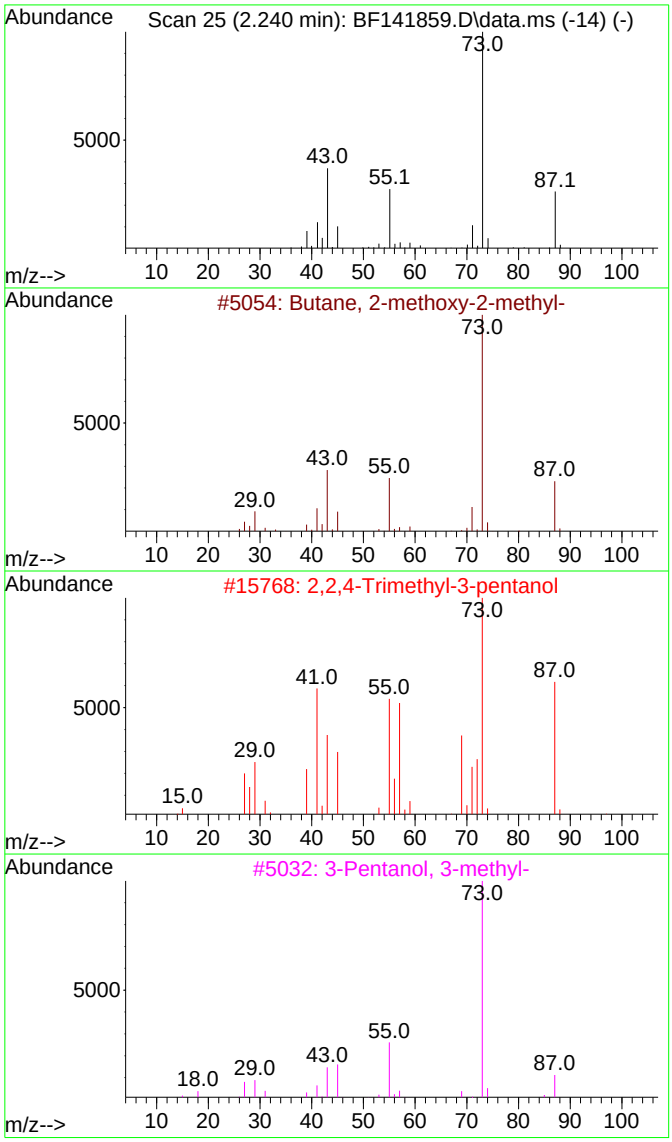
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

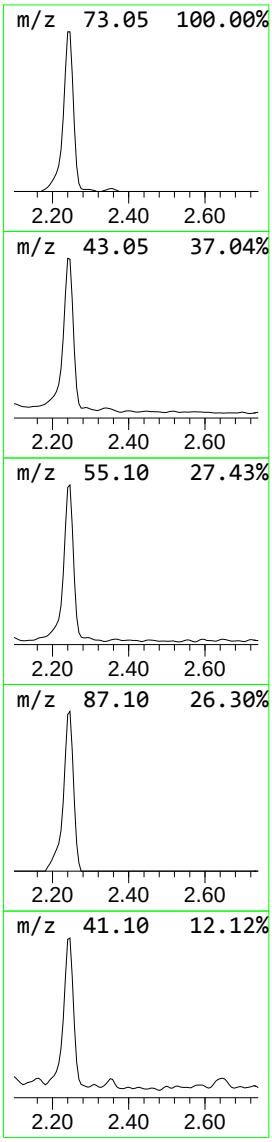
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.240	2.28 ng	149341	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	3-Pentanol, 3-methyl-	102	C6H14O	000077-74-7	38
4	Silane, ethyltrimethyl-	102	C5H14Si	003439-38-1	36
5	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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
Butane, 2-metho...	2.240	2.3	ng	149341	1	6.887	1312060	20.0

Raw Data: **BF141862.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BS	SDG No.:	Q1488
Lab Sample ID:	PB166982BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141862.D	1	03/05/25 08:35	03/06/25 11:51	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	23.3		4.00	10.0	ug/L
108-95-2	Phenol	42.4		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	41.9		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	45.4		0.71	5.00	ug/L
95-48-7	2-Methylphenol	44.3		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	36.4		1.40	5.00	ug/L
98-86-2	Acetophenone	47.1		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	43.7		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	39.7		1.50	2.50	ug/L
67-72-1	Hexachloroethane	44.5		1.00	5.00	ug/L
98-95-3	Nitrobenzene	48.9		1.30	5.00	ug/L
78-59-1	Isophorone	43.6		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	53.1		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	54.9		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	41.2		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	44.9		0.88	5.00	ug/L
91-20-3	Naphthalene	43.2		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	19.7		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	46.6		1.30	5.00	ug/L
105-60-2	Caprolactam	52.3		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	44.3		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	41.8		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	160	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	47.0		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	48.6		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	47.9		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	44.4		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	51.2		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	44.8		0.93	5.00	ug/L

Raw Data: **BF141862.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BS	SDG No.:	Q1488
Lab Sample ID:	PB166982BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141862.D	1	03/05/25 08:35	03/06/25 11:51	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	46.8		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	51.2		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	33.7		1.40	5.00	ug/L
83-32-9	Acenaphthene	51.2		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	120	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	120	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	42.9		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	57.4		1.50	5.00	ug/L
84-66-2	Diethylphthalate	43.7		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	44.9		0.98	5.00	ug/L
86-73-7	Fluorene	44.9		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	61.3		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	59.9		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	43.6		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	44.4		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	47.3		1.10	5.00	ug/L
1912-24-9	Atrazine	64.1		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	97.7	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	45.5		0.89	5.00	ug/L
120-12-7	Anthracene	45.8		1.10	5.00	ug/L
86-74-8	Carbazole	45.6		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	43.1		1.50	5.00	ug/L
206-44-0	Fluoranthene	46.5		1.30	5.00	ug/L
129-00-0	Pyrene	44.0		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	46.5		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	28.5		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	45.6		0.94	5.00	ug/L
218-01-9	Chrysene	45.0		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	46.6		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	45.1		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	45.0		1.10	5.00	ug/L

Raw Data: **BF141862.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BS	SDG No.:	Q1488
Lab Sample ID:	PB166982BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141862.D	1	03/05/25 08:35	03/06/25 11:51	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	44.4		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	48.1		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	50.9		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.9		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	47.7		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	48.9		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	39.6		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	48.4		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	131		15 (10) - 110 (139)	87%	SPK: 150
13127-88-3	Phenol-d6	124		15 (10) - 110 (134)	83%	SPK: 150
4165-60-0	Nitrobenzene-d5	109		30 (49) - 130 (133)	109%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.7		30 (52) - 130 (132)	95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	177	*	15 (44) - 110 (137)	118%	SPK: 150
1718-51-0	Terphenyl-d14	99.9		30 (48) - 130 (125)	100%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	210000	6.887			
1146-65-2	Naphthalene-d8	832000	8.163			
15067-26-2	Acenaphthene-d10	457000	9.922			
1517-22-2	Phenanthrene-d10	789000	11.404			
1719-03-5	Chrysene-d12	533000	14.045			
1520-96-3	Perylene-d12	432000	15.51			

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: **BF141862.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141862.D
Acq On : 06 Mar 2025 11:51
Operator : RC/JU
Sample : PB166982BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 06 15:47:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166982BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	210095	20.000	ng		0.00
21) Naphthalene-d8	8.163	136	832298	20.000	ng		-0.01
39) Acenaphthene-d10	9.922	164	456822	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	789268	20.000	ng		0.00
76) Chrysene-d12	14.045	240	533191	20.000	ng		0.00
86) Perylene-d12	15.510	264	432459	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	1718685	130.642	ng		0.02
7) Phenol-d6	6.510	99	2131309	124.468	ng		0.00
23) Nitrobenzene-d5	7.445	82	1424866	109.429	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	757115	176.536	ng		0.00
45) 2-Fluorobiphenyl	9.239	172	2698143	94.705	ng		0.00
79) Terphenyl-d14	12.992	244	3290875	99.859	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.769	88	236649	39.644	ng		96
3) Pyridine	3.528	79	571968	38.510	ng		96
4) n-Nitrosodimethylamine	3.469	42	298504	41.770	ng	#	98
6) Aniline	6.546	93	654827	36.784	ng		99
8) 2-Chlorophenol	6.669	128	646113	45.401	ng		95
9) Benzaldehyde	6.434	77	232462	23.339	ng		99
10) Phenol	6.522	94	775445	42.379	ng		97
11) bis(2-Chloroethyl)ether	6.622	93	584519	41.908	ng		96
12) 1,3-Dichlorobenzene	6.828	146	671014	44.028	ng		100
13) 1,4-Dichlorobenzene	6.904	146	680898	44.340	ng		100
14) 1,2-Dichlorobenzene	7.057	146	656843	45.806	ng		98
15) Benzyl Alcohol	7.022	79	576121	42.099	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.157	45	771714	36.433	ng		96
17) 2-Methylphenol	7.134	107	520475	44.307	ng		99
18) Hexachloroethane	7.398	117	255823	44.509	ng		97
19) n-Nitroso-di-n-propyla...	7.298	70	446393	39.657	ng		97
20) 3+4-Methylphenols	7.281	107	638973	43.683	ng		93
22) Acetophenone	7.293	105	955429	47.133	ng		99
24) Nitrobenzene	7.463	77	682517	48.949	ng		100
25) Isophorone	7.704	82	1219271	43.587	ng		98
26) 2-Nitrophenol	7.781	139	334090	53.102	ng		97
27) 2,4-Dimethylphenol	7.810	122	564747	54.921	ng		99
28) bis(2-Chloroethoxy)met...	7.910	93	735247	41.203	ng		99
29) 2,4-Dichlorophenol	8.016	162	532866	44.919	ng		99
30) 1,2,4-Trichlorobenzene	8.104	180	579819	44.605	ng		100
31) Naphthalene	8.187	128	1846658	43.170	ng		99
32) Benzoic acid	7.928	122	455664	52.276	ng		99
33) 4-Chloroaniline	8.234	127	309388	19.726	ng		98
34) Hexachlorobutadiene	8.304	225	376266	46.581	ng		98
35) Caprolactam	8.598	113	191039m	52.349	ng		
36) 4-Chloro-3-methylphenol	8.710	107	583807	44.302	ng		98
37) 2-Methylnaphthalene	8.875	142	1173483	41.824	ng		100
38) 1-Methylnaphthalene	8.975	142	1154869	42.897	ng		100
40) 1,2,4,5-Tetrachloroben...	9.045	216	645530	48.928	ng		99
41) Hexachlorocyclopentadiene	9.034	237	868319	157.703	ng		99
43) 2,4,6-Trichlorophenol	9.151	196	400502	46.993	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141862.D
Acq On : 06 Mar 2025 11:51
Operator : RC/JU
Sample : PB166982BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 06 15:47:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166982BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	409928	48.574	ng		98
46) 1,1'-Biphenyl	9.339	154	1666460	47.926	ng		99
47) 2-Chloronaphthalene	9.369	162	1139340	44.395	ng		99
48) 2-Nitroaniline	9.457	65	361580	51.157	ng		96
49) Acenaphthylene	9.781	152	1799062	46.755	ng		99
50) Dimethylphthalate	9.645	163	1371047	44.817	ng		100
51) 2,6-Dinitrotoluene	9.704	165	301079	51.243	ng		92
52) Acenaphthene	9.957	154	1330436	51.243	ng		99
53) 3-Nitroaniline	9.869	138	204507	33.745	ng	#	94
54) 2,4-Dinitrophenol	9.975	184	360919	116.229	ng	#	1
55) Dibenzofuran	10.128	168	1621177	42.900	ng		100
56) 4-Nitrophenol	10.028	139	551414	122.039	ng		95
57) 2,4-Dinitrotoluene	10.104	165	415457	57.376	ng		95
58) Fluorene	10.469	166	1272097	44.940	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	354982	48.365	ng		99
60) Diethylphthalate	10.345	149	1341179	43.731	ng		100
61) 4-Chlorophenyl-phenyle...	10.463	204	636689	44.893	ng		99
62) 4-Nitroaniline	10.486	138	320025	61.255	ng		97
63) Azobenzene	10.622	77	1309765	40.561	ng		98
65) 4,6-Dinitro-2-methylph...	10.510	198	231430	59.852	ng		94
66) n-Nitrosodiphenylamine	10.581	169	1129867	43.596	ng		100
67) 4-Bromophenyl-phenylether	10.951	248	409102	44.376	ng		98
68) Hexachlorobenzene	11.016	284	460465	47.300	ng		97
69) Atrazine	11.104	200	456998	64.122	ng		100
70) Pentachlorophenol	11.210	266	603121	97.683	ng		100
71) Phenanthrene	11.433	178	1919079	45.456	ng		99
72) Anthracene	11.486	178	1936157	45.759	ng		100
73) Carbazole	11.633	167	1703875	45.601	ng		100
74) Di-n-butylphthalate	11.969	149	2042563	43.126	ng		100
75) Fluoranthene	12.616	202	2010701	46.480	ng		98
77) Benzidine	12.739	184	703765	104.868	ng		100
78) Pyrene	12.851	202	2033437	44.041	ng		99
80) Butylbenzylphthalate	13.463	149	779324	46.457	ng		98
81) Benzo(a)anthracene	14.033	228	1606850	45.626	ng		99
82) 3,3'-Dichlorobenzidine	13.992	252	287502	28.453	ng		99
83) Chrysene	14.069	228	1461304	45.012	ng		100
84) Bis(2-ethylhexyl)phtha...	14.022	149	973167	46.591	ng		99
85) Di-n-octyl phthalate	14.633	149	1411858	45.149	ng		97
87) Indeno(1,2,3-cd)pyrene	17.004	276	1400520	50.858	ng		97
88) Benzo(b)fluoranthene	15.080	252	1324873	44.975	ng		99
89) Benzo(k)fluoranthene	15.110	252	1110972	44.371	ng		99
90) Benzo(a)pyrene	15.451	252	1135461	48.062	ng		99
91) Dibenzo(a,h)anthracene	17.021	278	1121408	49.889	ng		97
92) Benzo(g,h,i)perylene	17.457	276	1098929	47.722	ng		97

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

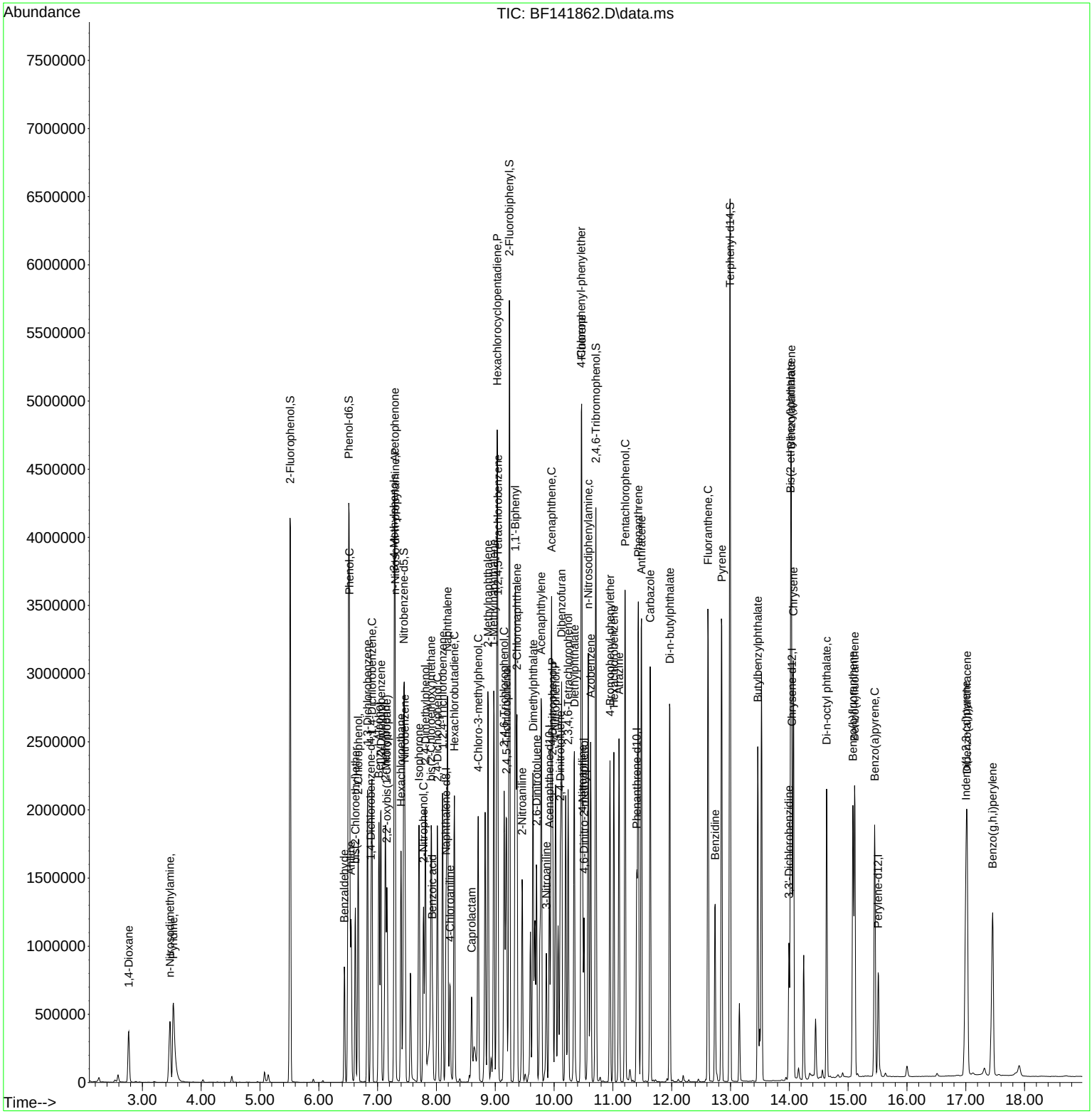
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141862.D
Acq On : 06 Mar 2025 11:51
Operator : RC/JU
Sample : PB166982BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

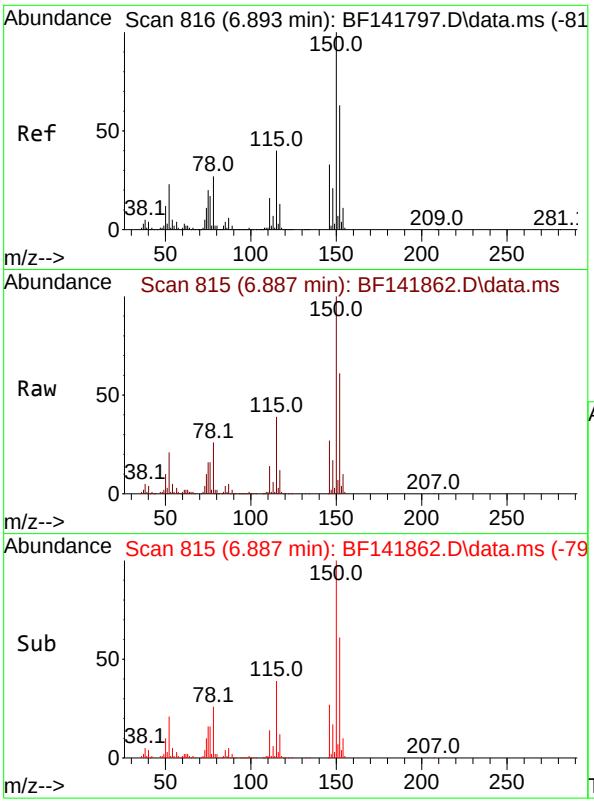
Quant Time: Mar 06 15:47:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166982BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

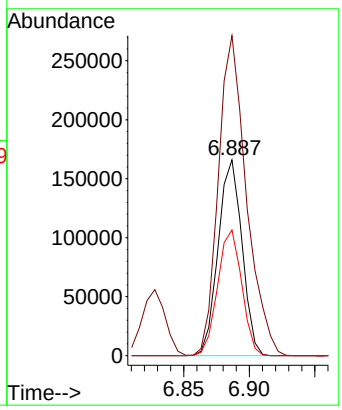




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:152 Resp: 21009

Ion	Ratio	Lower	Upper
152	100		
150	163.4	127.5	191.3
115	64.2	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
PB166982BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/07/2025
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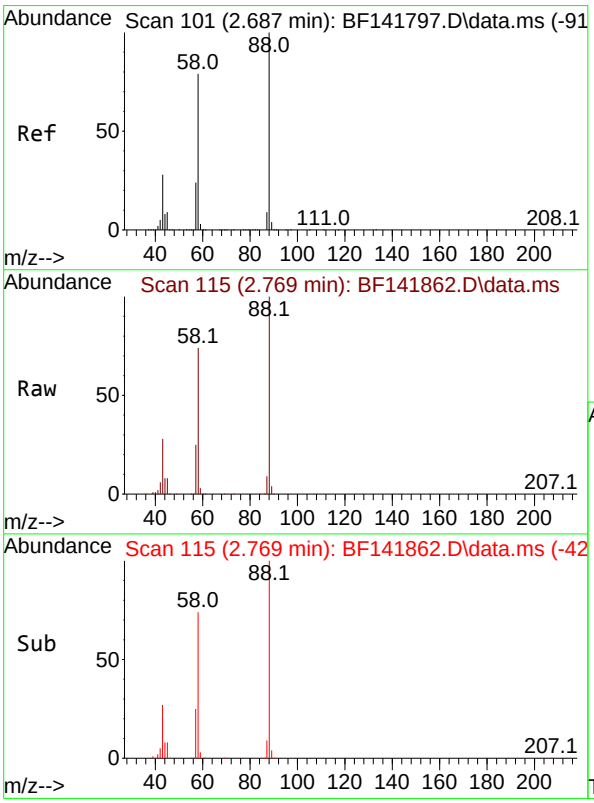
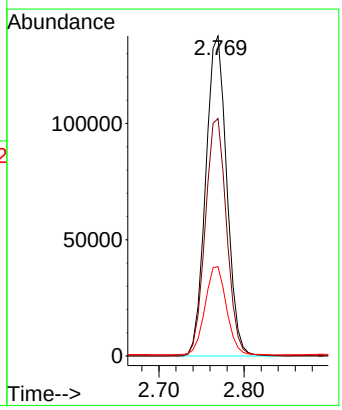
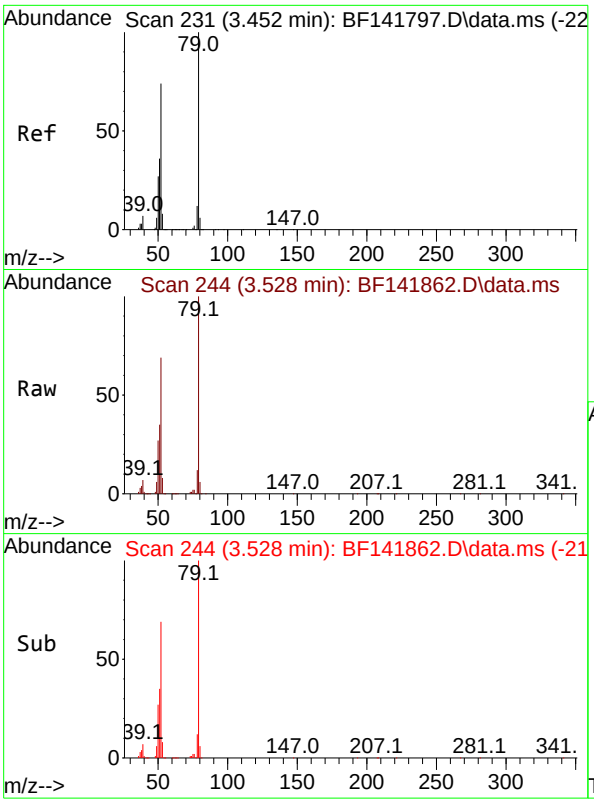


#2
1,4-Dioxane
Concen: 39.644 ng
RT: 2.769 min Scan# 115
Delta R.T. 0.082 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion: 88 Resp: 236649

Ion	Ratio	Lower	Upper
88	100		
58	75.5	63.9	95.9
43	28.2	23.0	34.6





#3
Pyridine
Concen: 38.510 ng
RT: 3.528 min Scan# 24
Delta R.T. 0.076 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

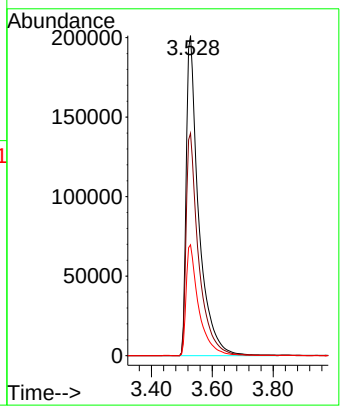
Tgt Ion: 79 Resp: 57196

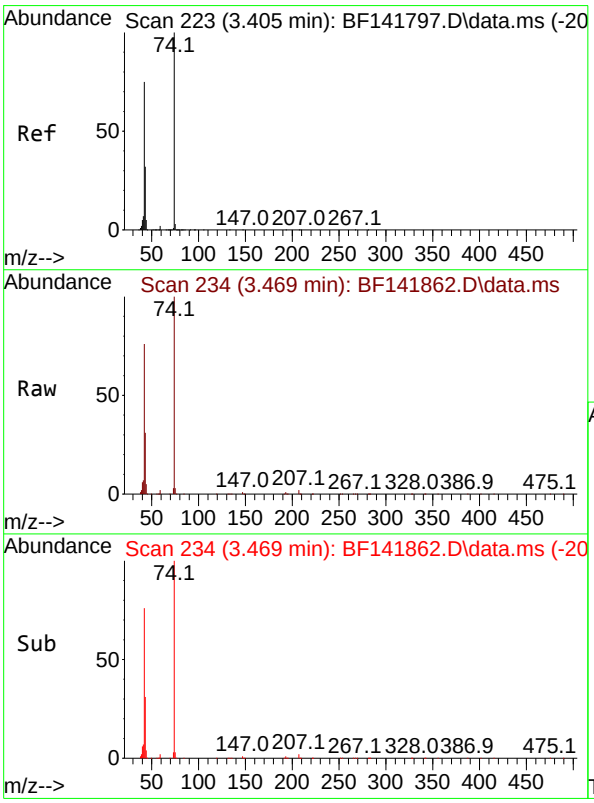
Ion	Ratio	Lower	Upper
79	100		
52	69.5	59.0	88.4
51	34.7	29.0	43.4

Instrument :
BNA_F
ClientSampleId :
PB166982BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

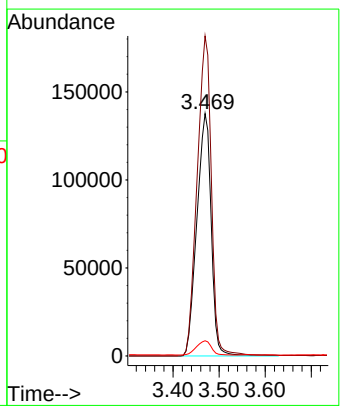


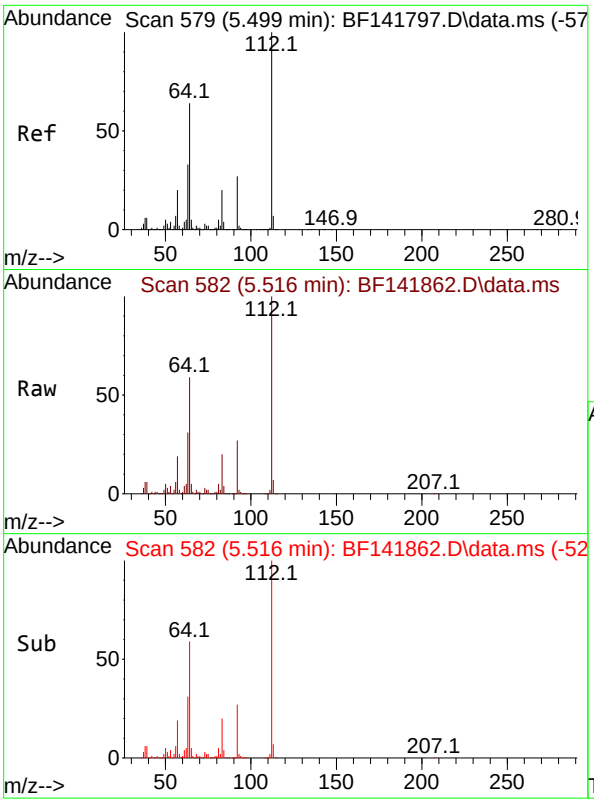


#4
n-Nitrosodimethylamine
Concen: 41.770 ng
RT: 3.469 min Scan# 234
Delta R.T. 0.065 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion: 42 Resp: 298504

Ion	Ratio	Lower	Upper
42	100		
74	132.0	107.1	160.7
44	6.3	6.6	9.8#

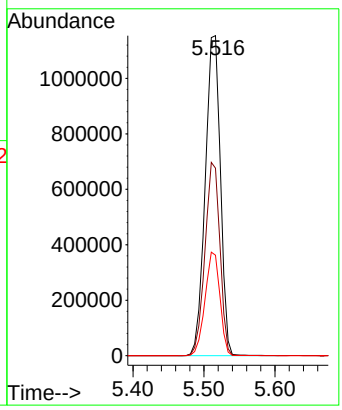




#5
2-Fluorophenol
Concen: 130.642 ng
RT: 5.516 min Scan# 5
Delta R.T. 0.018 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:112 Resp: 171868

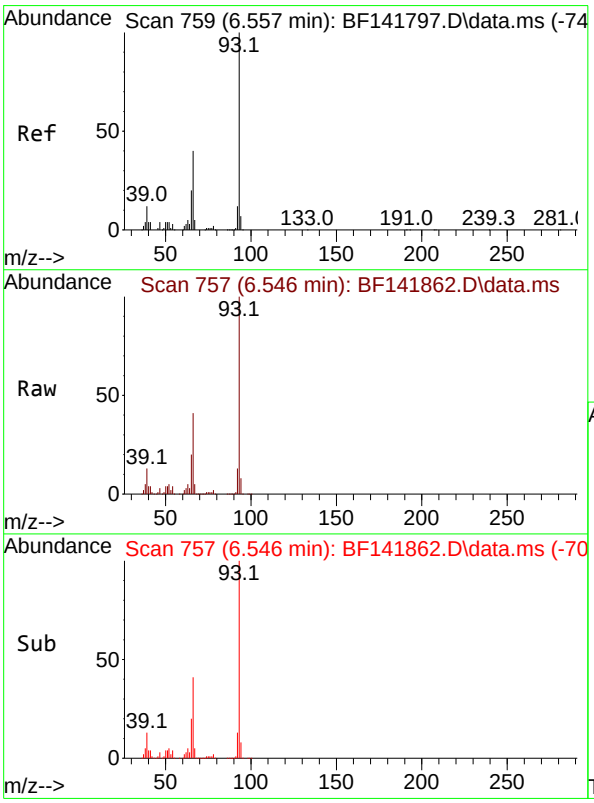
Ion	Ratio	Lower	Upper
112	100		
64	58.6	51.3	76.9
63	31.4	26.2	39.4



Instrument :
BNA_F
ClientSampleId :
PB166982BS

Manual Integrations
APPROVED

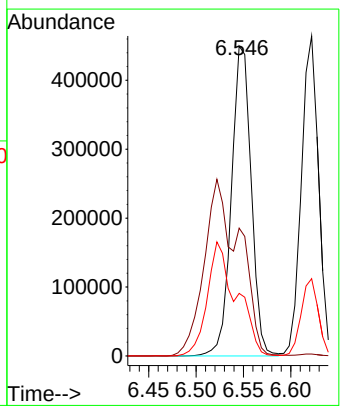
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

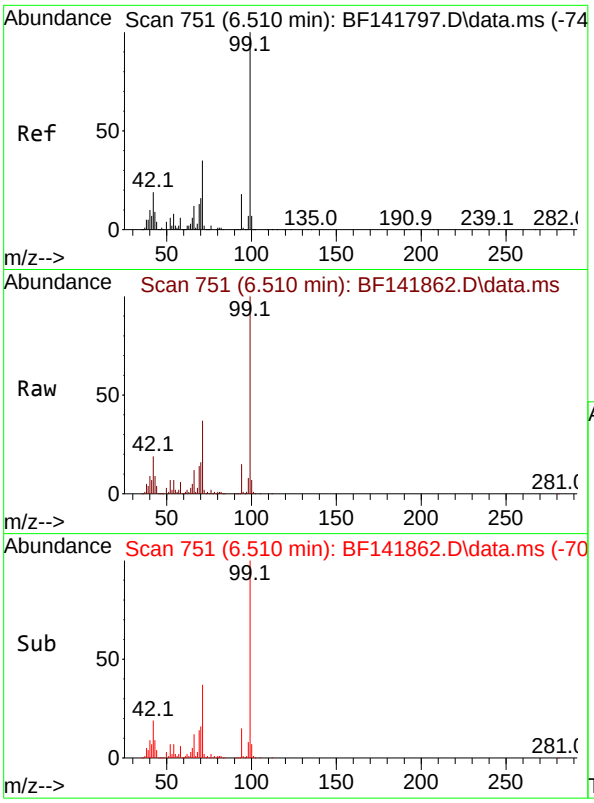


#6
Aniline
Concen: 36.784 ng
RT: 6.546 min Scan# 757
Delta R.T. -0.012 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion: 93 Resp: 654827

Ion	Ratio	Lower	Upper
93	100		
66	41.2	32.3	48.5
65	20.2	15.9	23.9

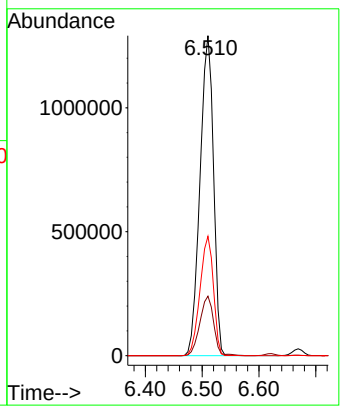




#7
Phenol-d6
Concen: 124.468 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion: 99 Resp: 213130

Ion	Ratio	Lower	Upper
99	100		
42	18.6	15.2	22.8
71	37.3	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
PB166982BS

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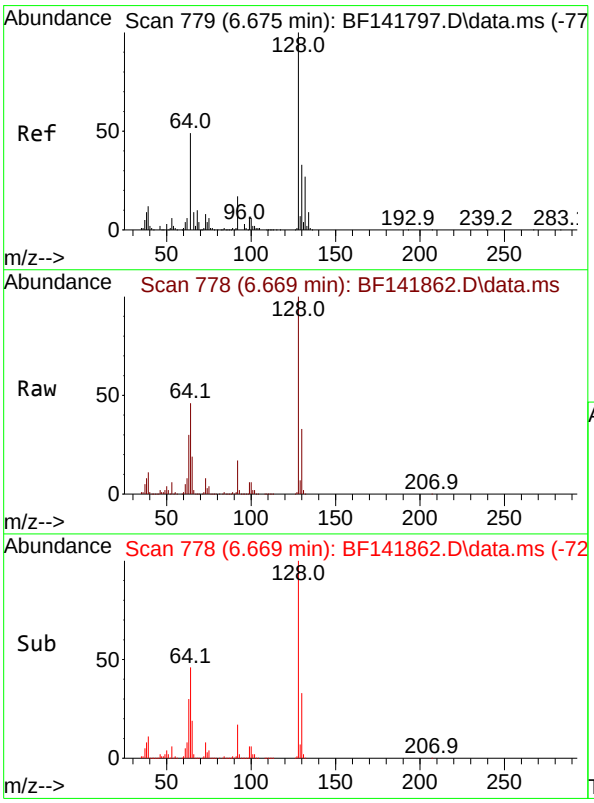
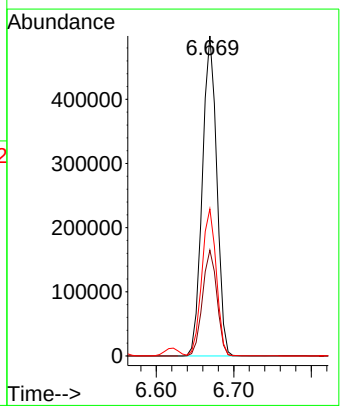
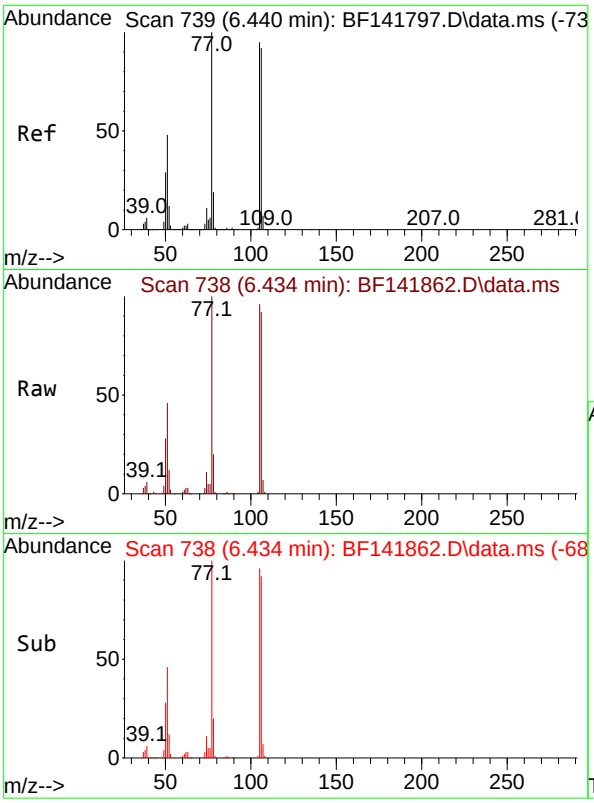


#8
2-Chlorophenol
Concen: 45.401 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:128 Resp: 646113

Ion	Ratio	Lower	Upper
128	100		
130	33.1	12.6	52.6
64	46.0	31.1	71.1

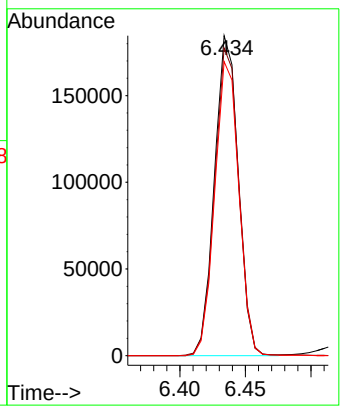




#9
Benzaldehyde
Concen: 23.339 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion: 77 Resp: 23246

Ion	Ratio	Lower	Upper
77	100		
105	96.2	75.3	115.3
106	91.9	72.3	112.3



Instrument :
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ClientSampleId :
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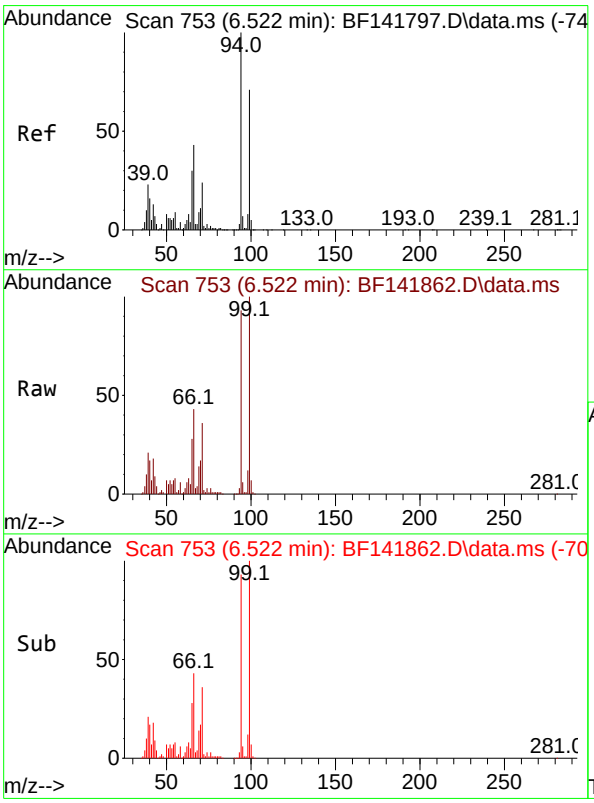
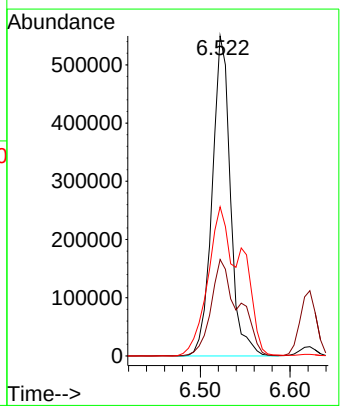
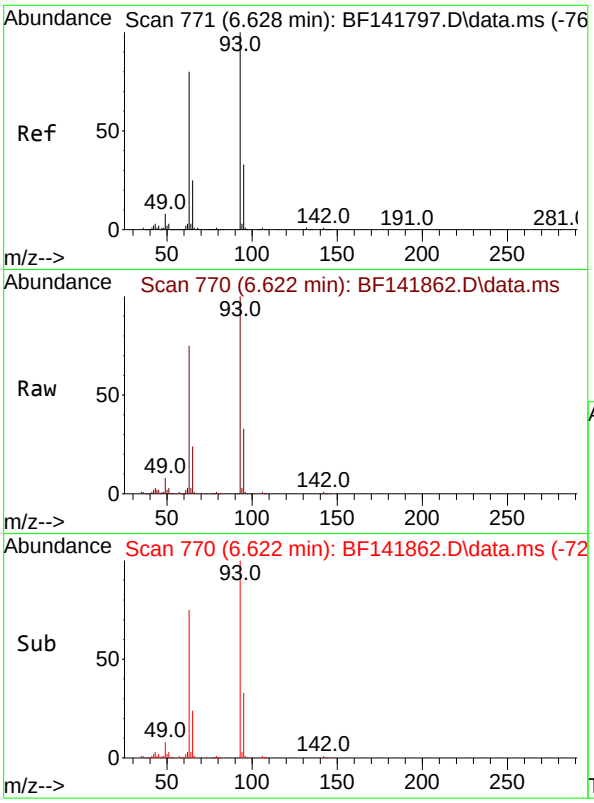


#10
Phenol
Concen: 42.379 ng
RT: 6.522 min Scan# 753
Delta R.T. -0.000 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion: 94 Resp: 775445

Ion	Ratio	Lower	Upper
94	100		
65	30.1	10.2	50.2
66	46.6	23.2	63.2

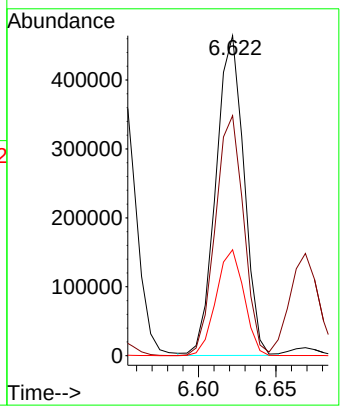




#11
bis(2-Chloroethyl)ether
Concen: 41.908 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion: 93 Resp: 58451

Ion	Ratio	Lower	Upper
93	100		
63	75.0	59.3	99.3
95	33.1	13.2	53.2



Instrument :
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ClientSampleId :
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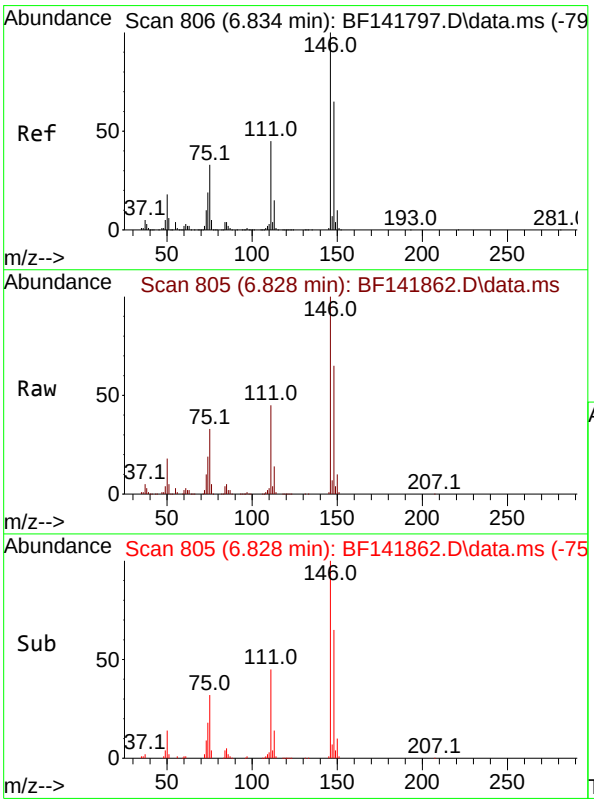
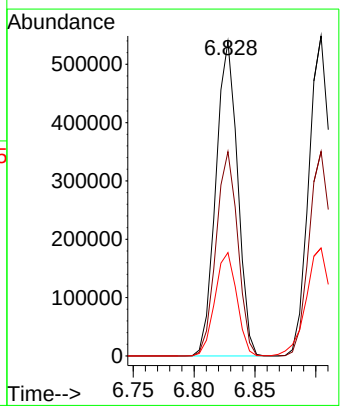
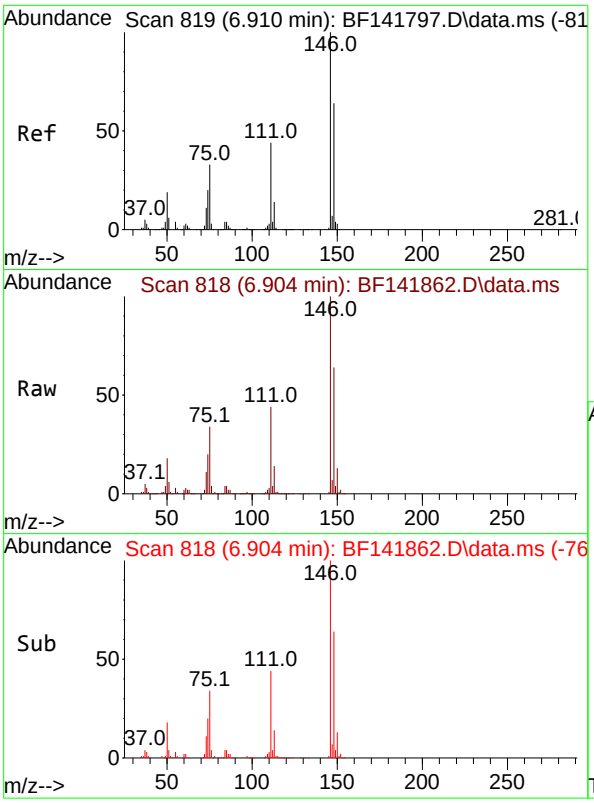


#12
1,3-Dichlorobenzene
Concen: 44.028 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:146 Resp: 671014

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.8	77.6
75	32.8	26.2	39.4

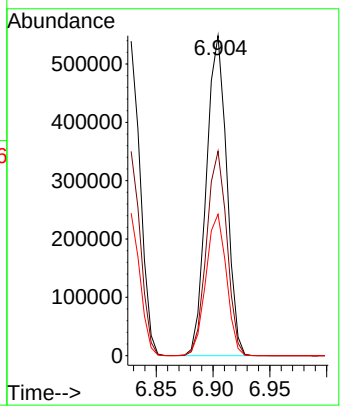




#13
1,4-Dichlorobenzene
Concen: 44.340 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:146 Resp: 68089

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.4	77.2
111	44.2	35.5	53.3



Instrument :
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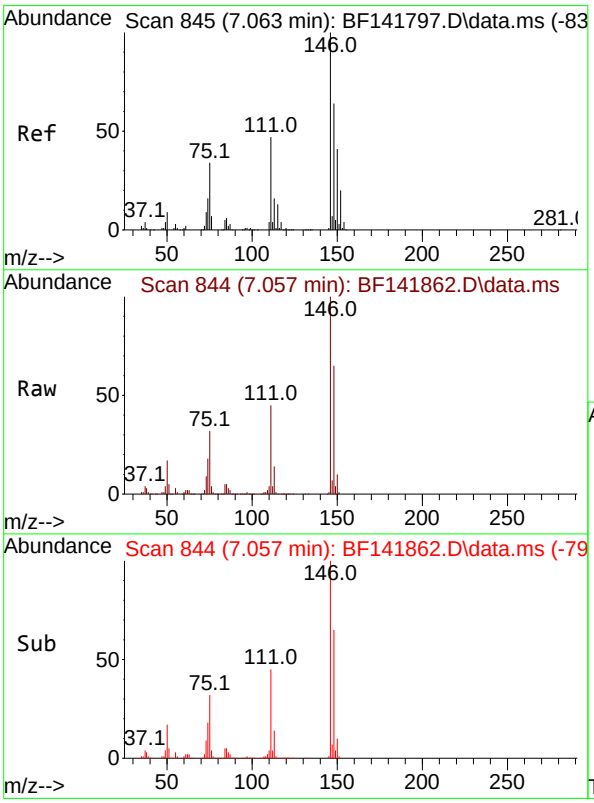
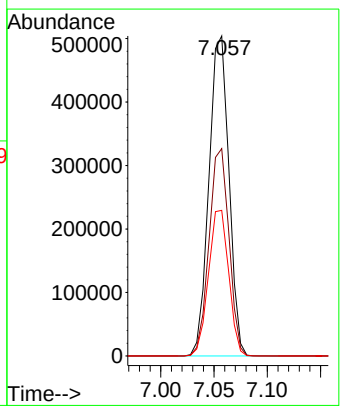
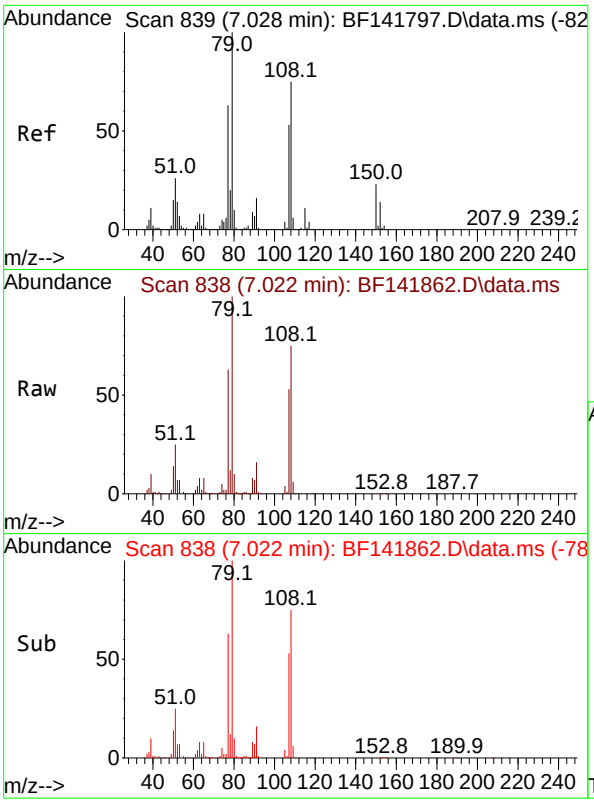


#14
1,2-Dichlorobenzene
Concen: 45.806 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:146 Resp: 656843

Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.2	76.8
111	45.5	37.8	56.6

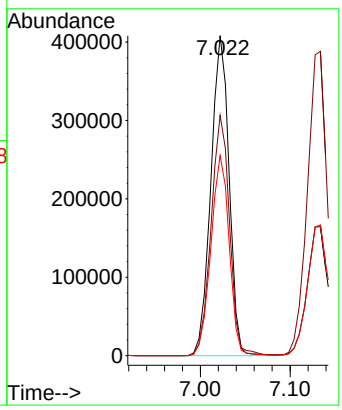




#15
Benzyl Alcohol
Concen: 42.099 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion: 79 Resp: 57612

Ion	Ratio	Lower	Upper
79	100		
108	75.1	60.2	90.2
77	62.5	50.2	75.2



Instrument :
BNA_F
ClientSampleId :
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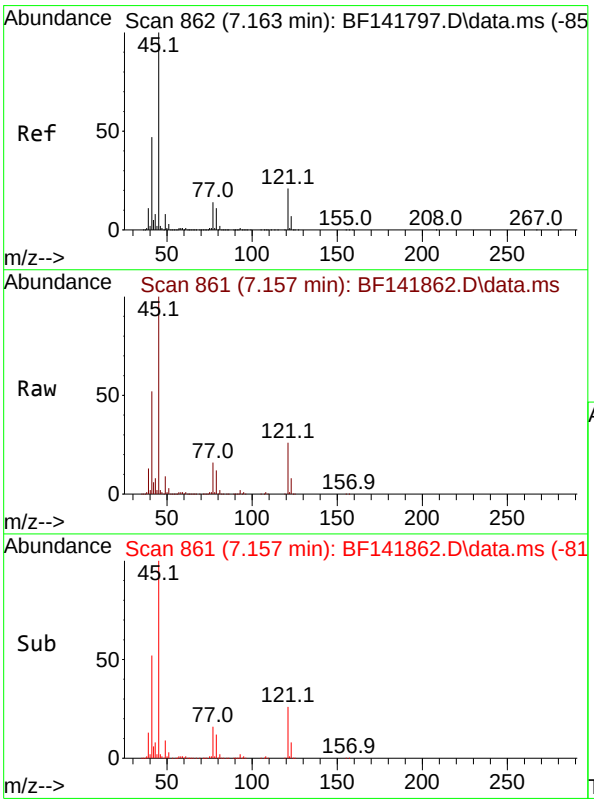
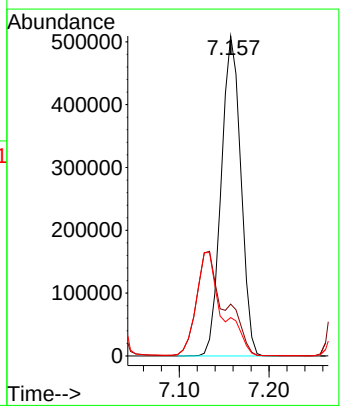
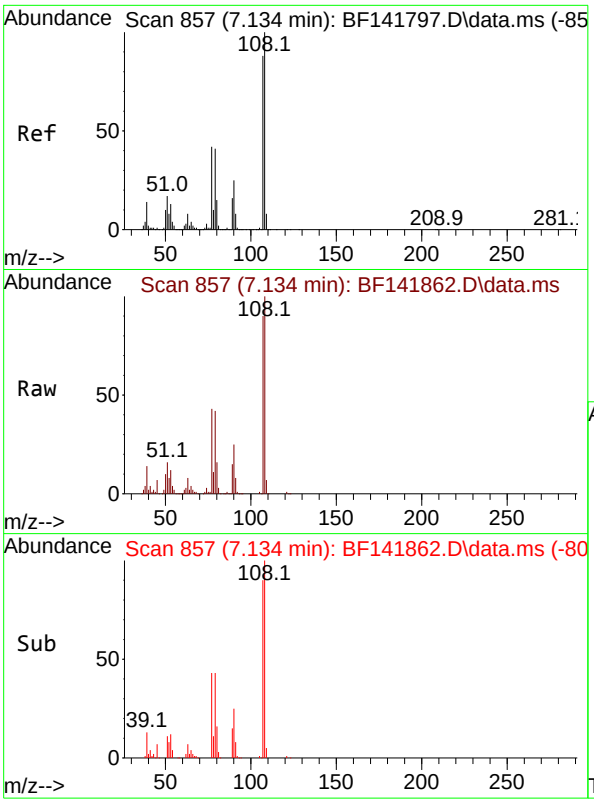


#16
2,2'-oxybis(1-Chloropropane)
Concen: 36.433 ng
RT: 7.157 min Scan# 861
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion: 45 Resp: 771714

Ion	Ratio	Lower	Upper
45	100		
77	16.2	0.0	34.4
79	12.0	0.0	30.9

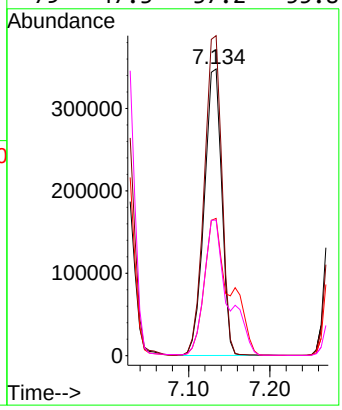




#17
2-Methylphenol
Concen: 44.307 ng
RT: 7.134 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:107 Resp: 52047

Ion	Ratio	Lower	Upper
107	100		
108	111.6	90.6	135.8
77	47.9	37.7	56.5
79	47.3	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
PB166982BS

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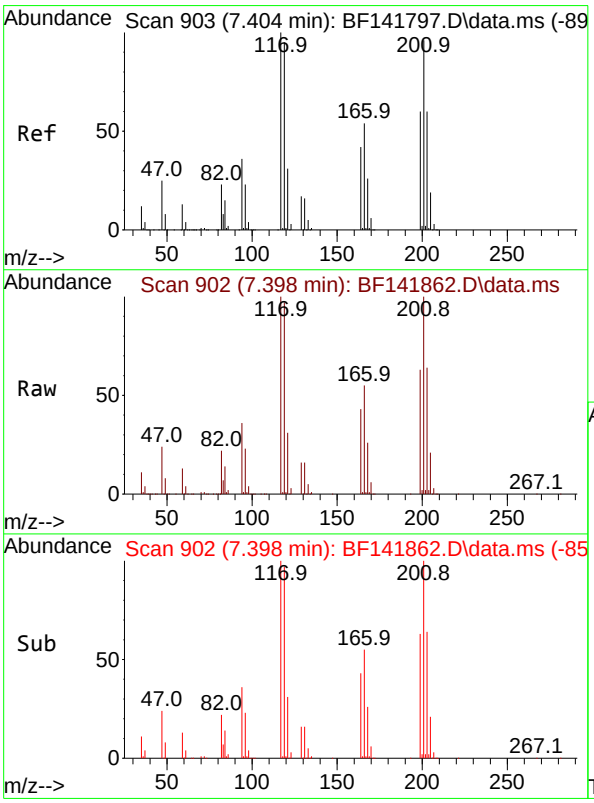
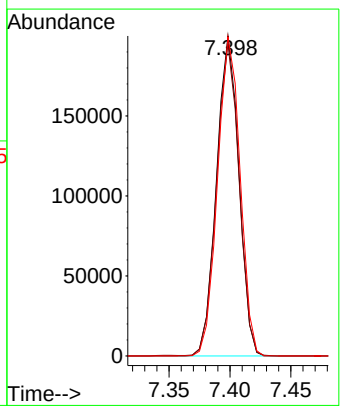
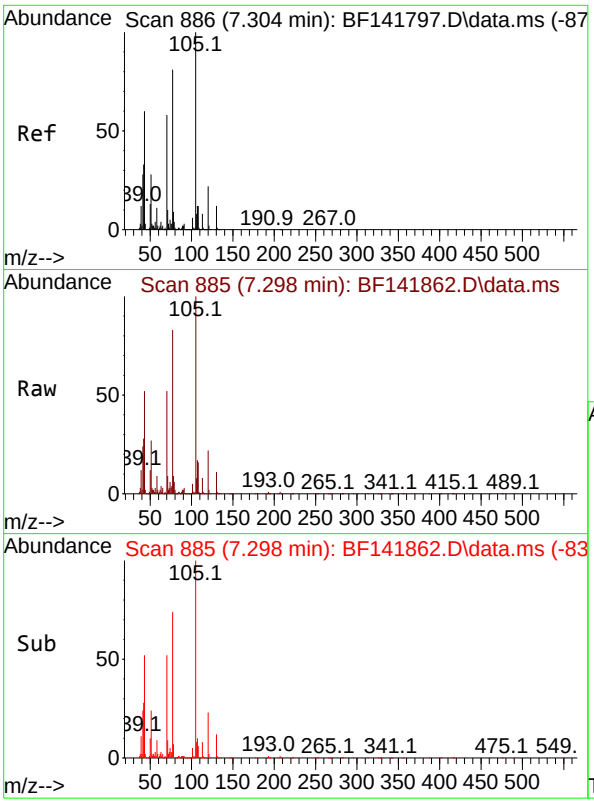


#18
Hexachloroethane
Concen: 44.509 ng
RT: 7.398 min Scan# 902
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:117 Resp: 255823

Ion	Ratio	Lower	Upper
117	100		
119	97.5	75.8	113.8
201	99.7	76.7	115.1

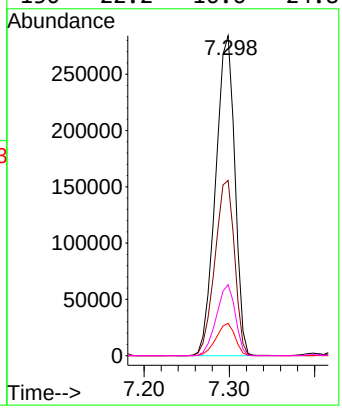




#19
n-Nitroso-di-n-propylamine
Concen: 39.657 ng
RT: 7.298 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion: 70 Resp: 44639

Ion	Ratio	Lower	Upper
70	100		
42	54.7	45.4	68.0
101	10.1	7.8	11.8
130	22.2	16.6	24.8



Instrument :
BNA_F
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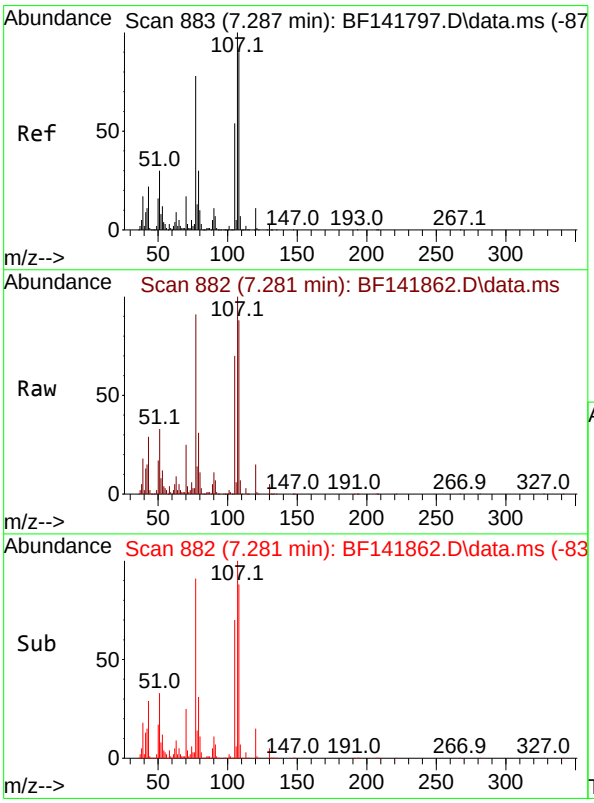
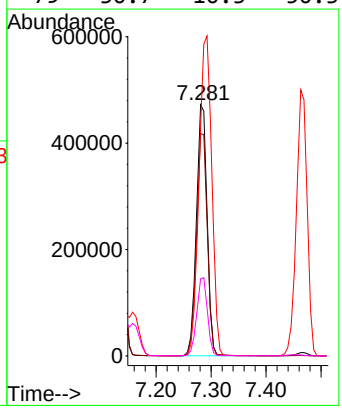
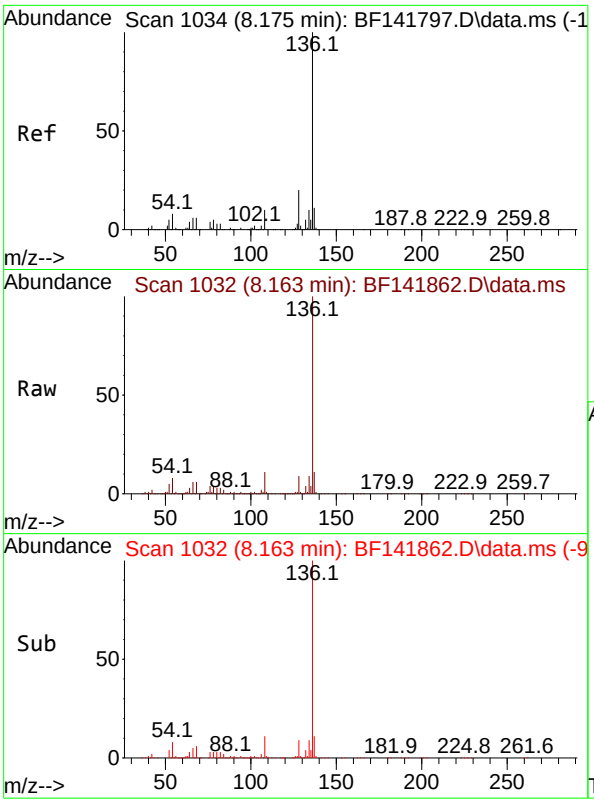


#20
3+4-Methylphenols
Concen: 43.683 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:107 Resp: 638973

Ion	Ratio	Lower	Upper
107	100		
108	88.5	69.7	109.7
77	91.2	58.3	98.3
79	30.7	10.3	50.3

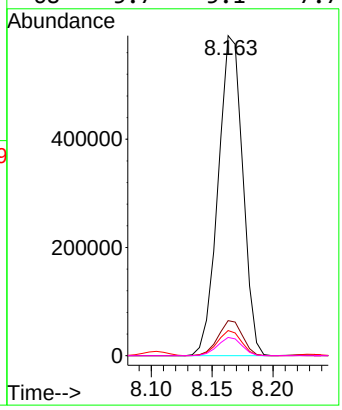




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:136 Resp: 83229

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	7.8	6.9	10.3
68	5.7	5.1	7.7



Instrument :
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ClientSampleId :
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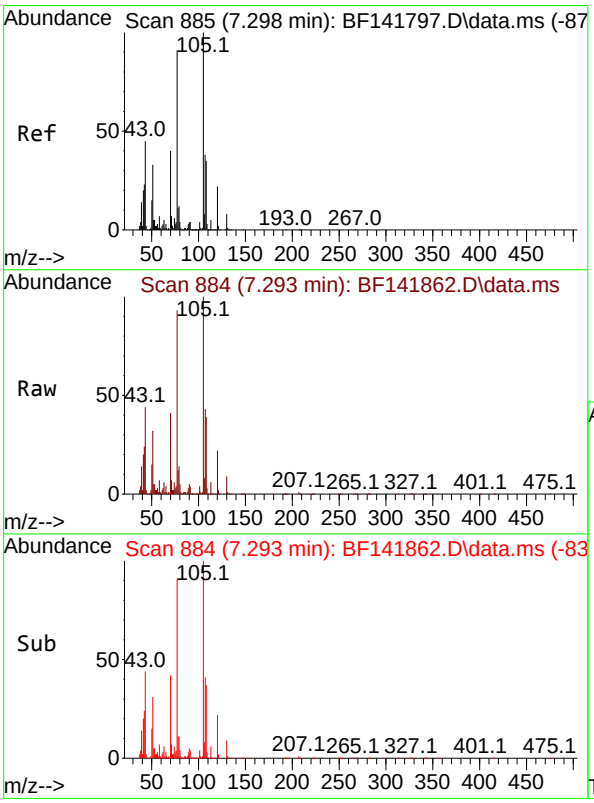
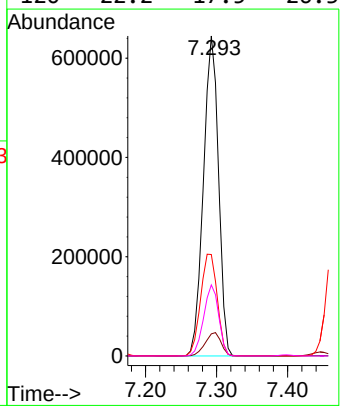
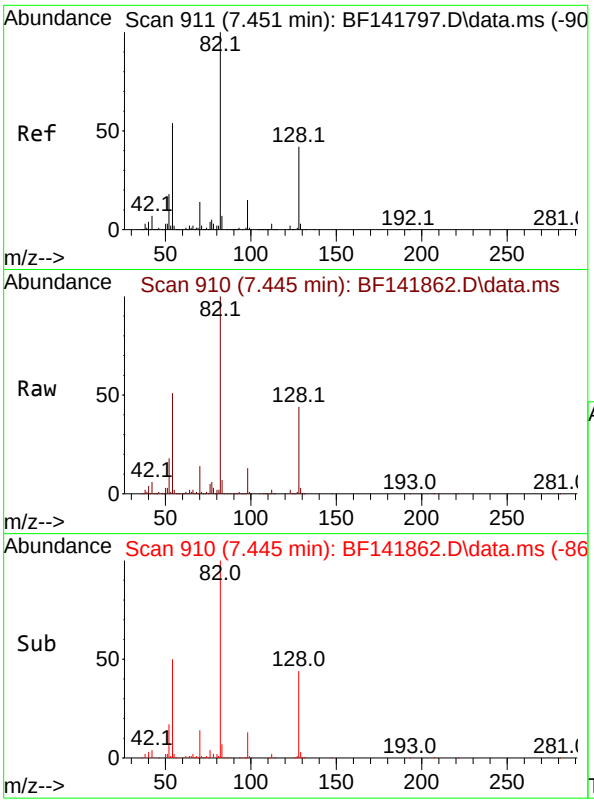


#22
Acetophenone
Concen: 47.133 ng
RT: 7.293 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:105 Resp: 955429

Ion	Ratio	Lower	Upper
105	100		
71	6.9	5.4	8.0
51	31.7	26.1	39.1
120	22.2	17.5	26.3

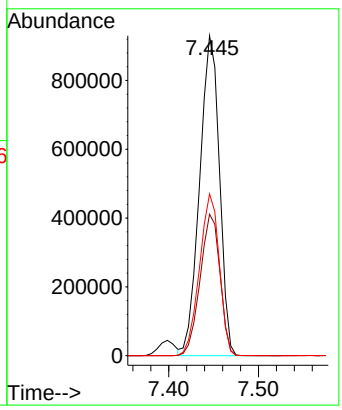




#23
Nitrobenzene-d5
Concen: 109.429 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion: 82 Resp: 142486

Ion	Ratio	Lower	Upper
82	100		
128	44.2	33.5	50.3
54	50.5	42.7	64.1



Instrument :
BNA_F
ClientSampleId :
PB166982BS

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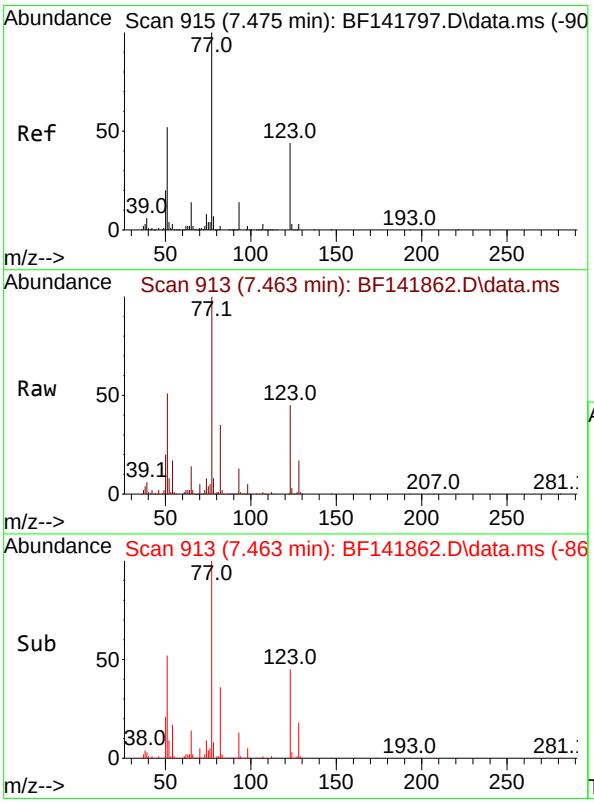
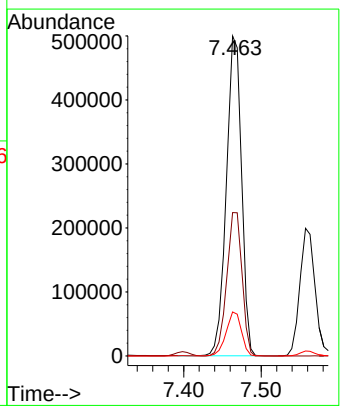
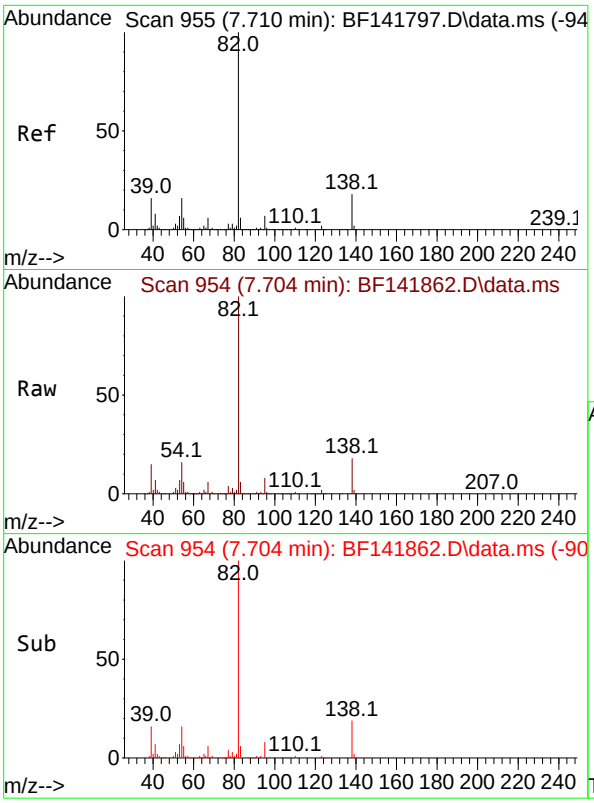


#24
Nitrobenzene
Concen: 48.949 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion: 77 Resp: 682517

Ion	Ratio	Lower	Upper
77	100		
123	44.8	35.8	53.8
65	13.8	11.2	16.8

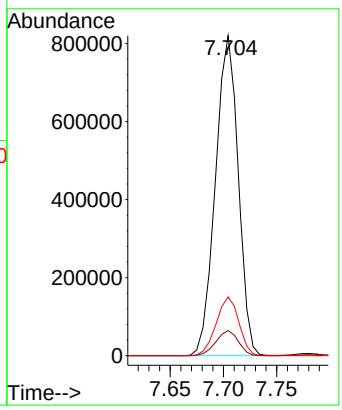




#25
Isophorone
Concen: 43.587 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion: 82 Resp: 121927

Ion	Ratio	Lower	Upper
82	100		
95	7.8	5.8	8.8
138	18.4	14.0	21.0



Instrument :
BNA_F
ClientSampleId :
PB166982BS

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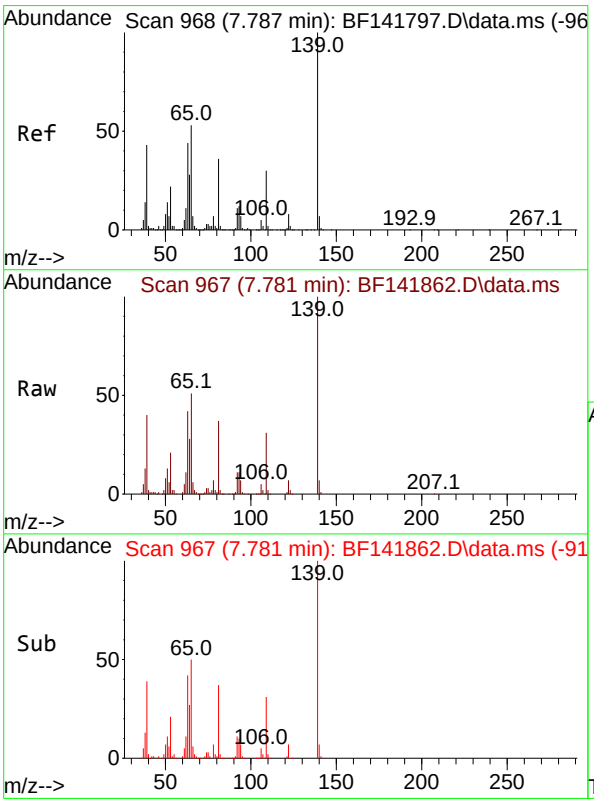
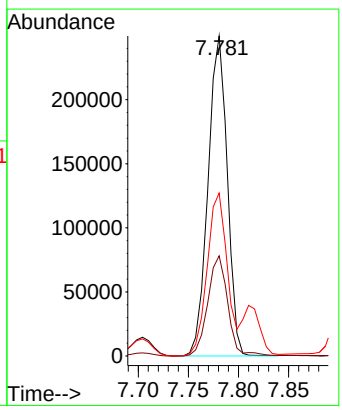
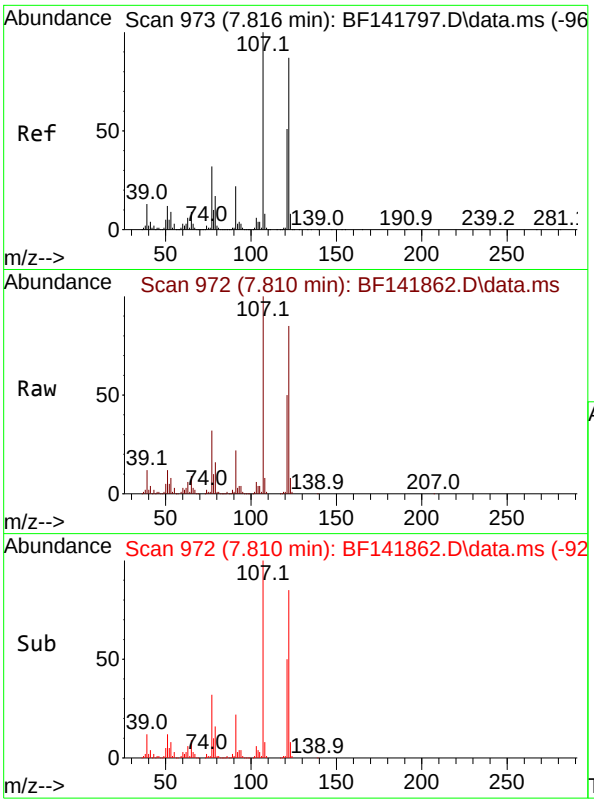


#26
2-Nitrophenol
Concen: 53.102 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:139 Resp: 334090

Ion	Ratio	Lower	Upper
139	100		
109	31.3	24.1	36.1
65	50.9	42.3	63.5

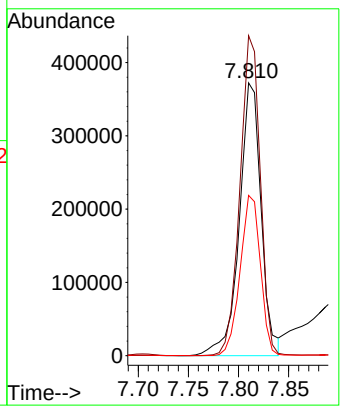




#27
2,4-Dimethylphenol
Concen: 54.921 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:122 Resp: 56474

Ion	Ratio	Lower	Upper
122	100		
107	117.3	92.5	138.7
121	58.8	47.1	70.7



Instrument :
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ClientSampleId :
PB166982BS

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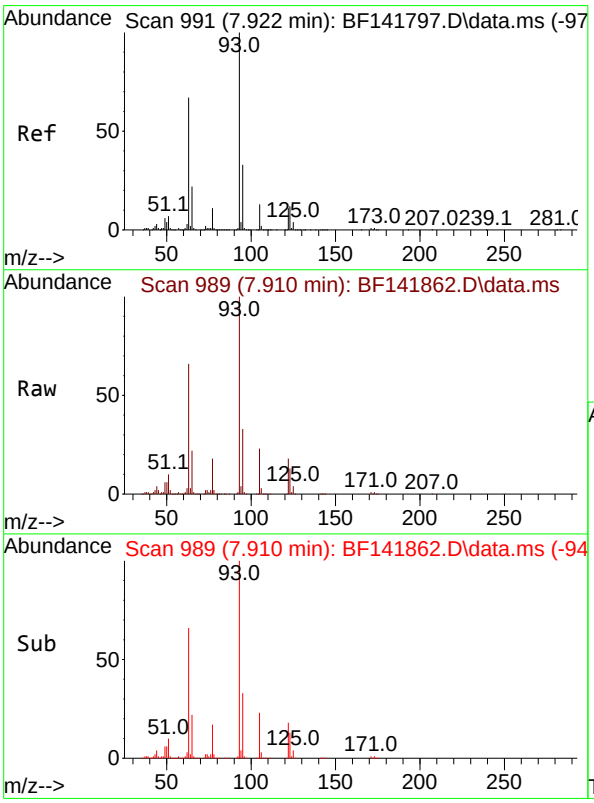
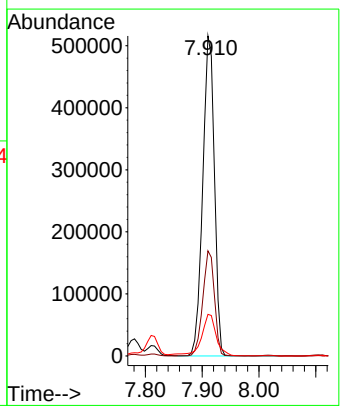
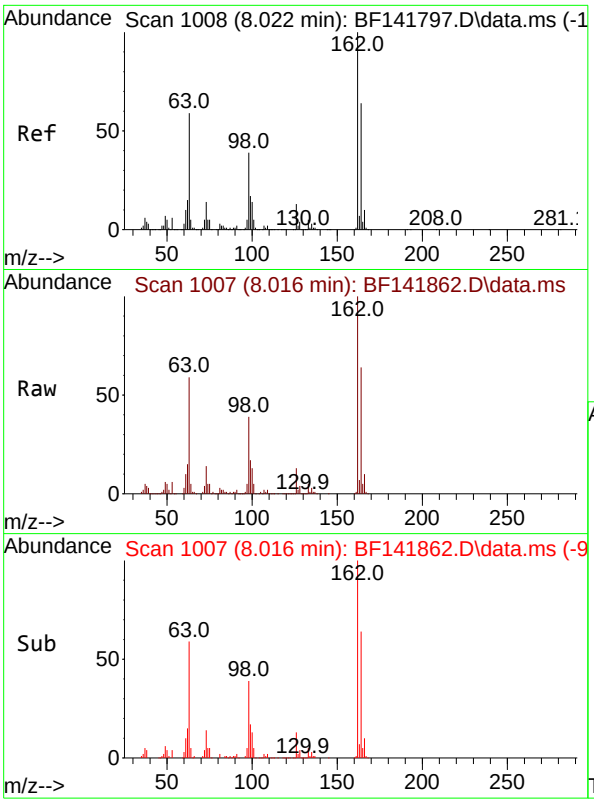


#28
bis(2-Chloroethoxy)methane
Concen: 41.203 ng
RT: 7.910 min Scan# 989
Delta R.T. -0.012 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion: 93 Resp: 735247

Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.5	39.7
123	13.0	10.0	15.0

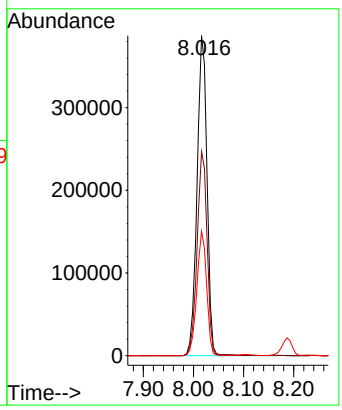




#29
2,4-Dichlorophenol
Concen: 44.919 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:162 Resp: 53286

Ion	Ratio	Lower	Upper
162	100		
164	63.8	44.3	84.3
98	38.8	19.6	59.6



Instrument :
BNA_F
ClientSampleId :
PB166982BS

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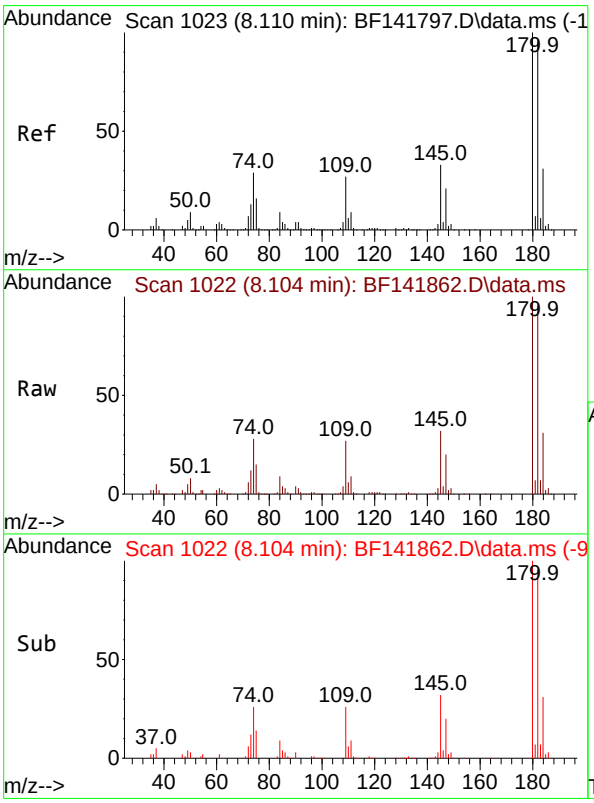
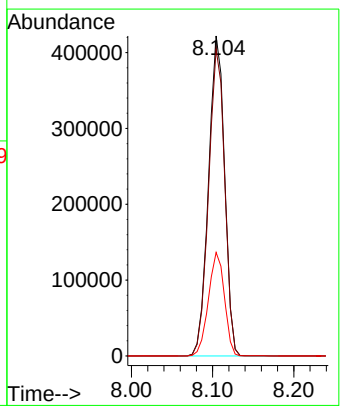
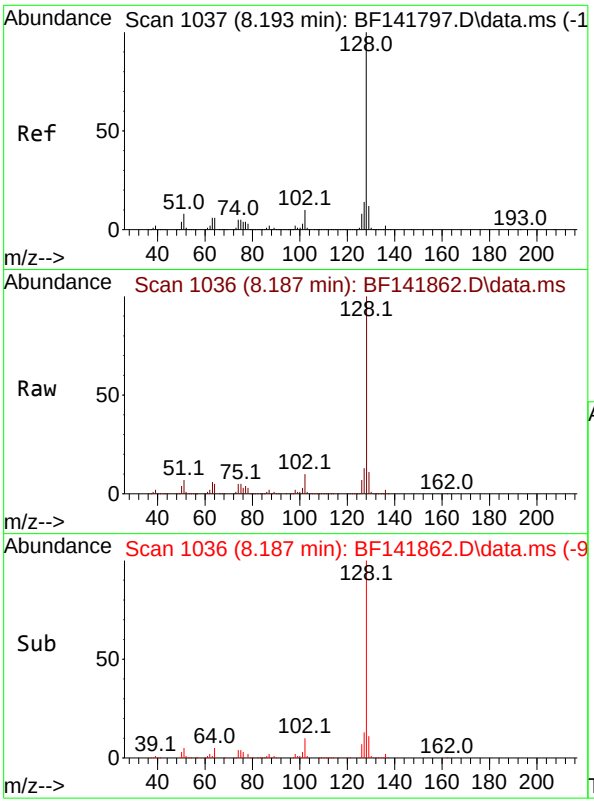


#30
1,2,4-Trichlorobenzene
Concen: 44.605 ng
RT: 8.104 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:180 Resp: 579819

Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.8	115.2
145	32.4	26.4	39.6

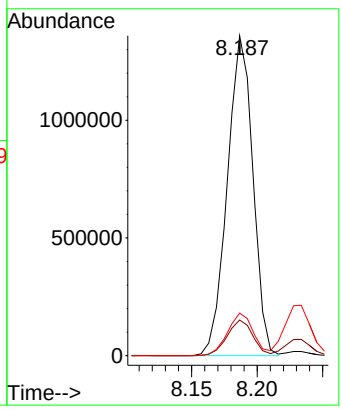




#31
Naphthalene
Concen: 43.170 ng
RT: 8.187 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:128 Resp: 184665

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.2	13.8
127	13.3	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
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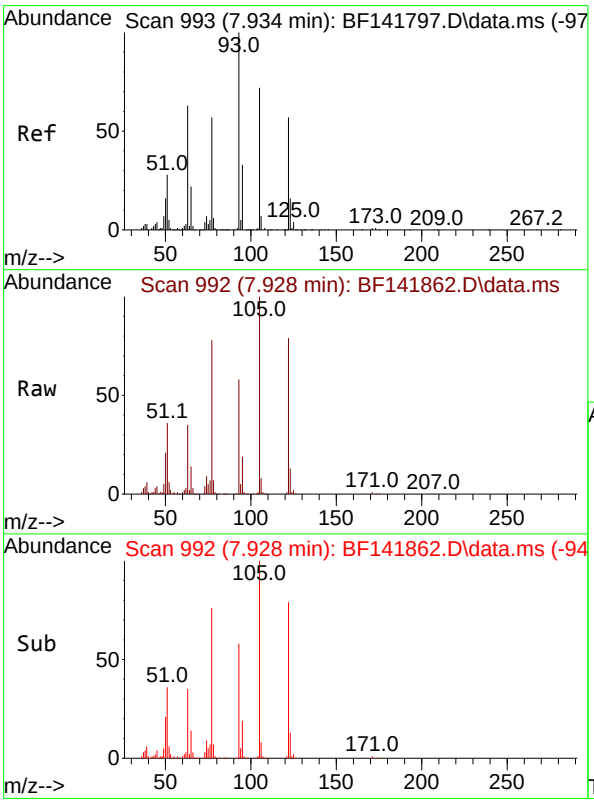
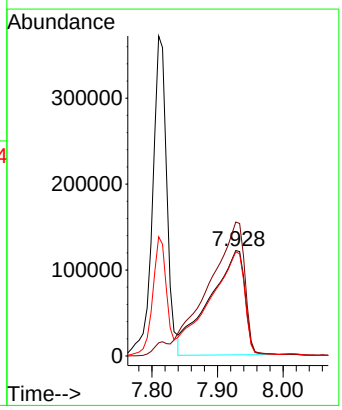
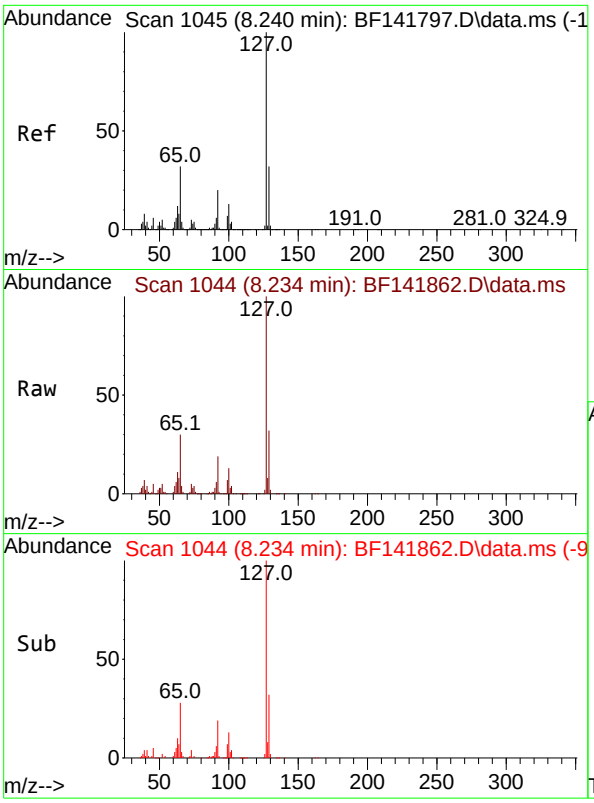


#32
Benzoic acid
Concen: 52.276 ng
RT: 7.928 min Scan# 992
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:122 Resp: 455664

Ion	Ratio	Lower	Upper
122	100		
105	127.1	105.8	145.8
77	98.8	79.9	119.9

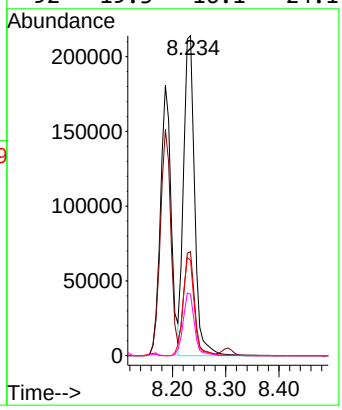




#33
4-Chloroaniline
Concen: 19.726 ng
RT: 8.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:127 Resp: 30938

Ion	Ratio	Lower	Upper
127	100		
129	32.5	26.1	39.1
65	29.8	25.7	38.5
92	19.3	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
PB166982BS

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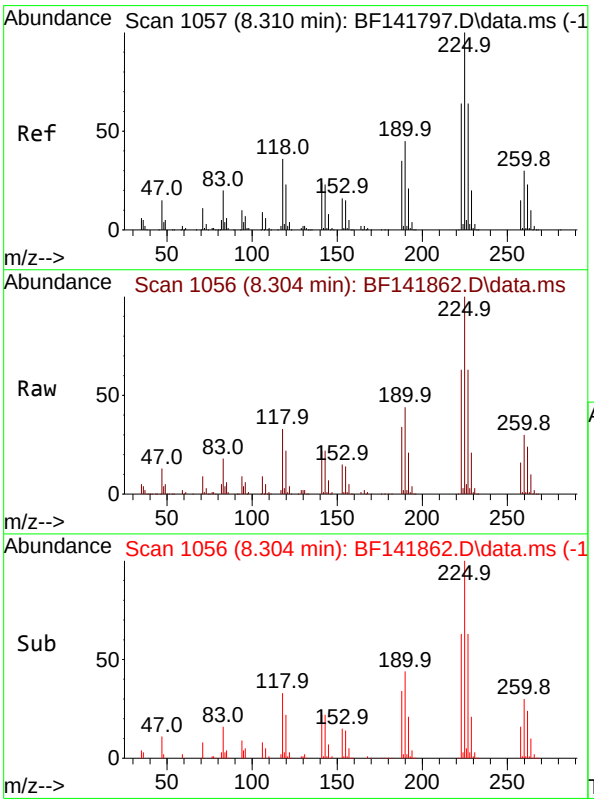
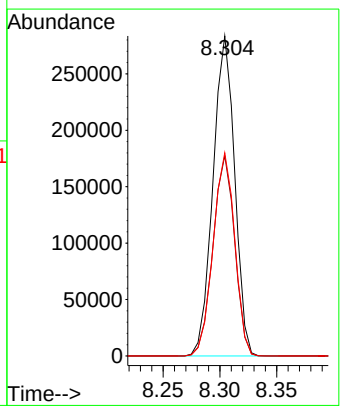
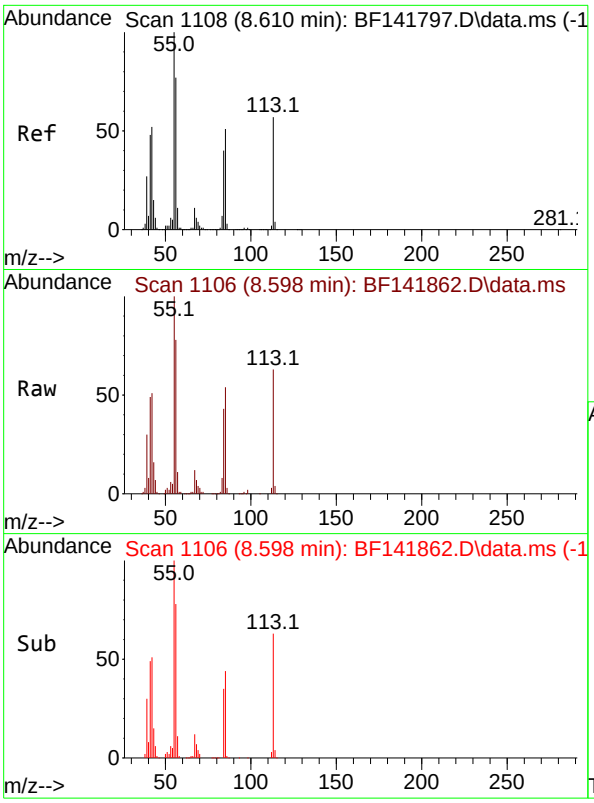


#34
Hexachlorobutadiene
Concen: 46.581 ng
RT: 8.304 min Scan# 1056
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:225 Resp: 376266

Ion	Ratio	Lower	Upper
225	100		
223	62.6	51.4	77.2
227	63.5	51.6	77.4

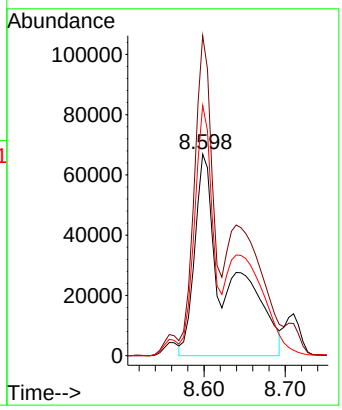




#35
Caprolactam
Concen: 52.349 ng m
RT: 8.598 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:113 Resp: 19103

Ion	Ratio	Lower	Upper
113	100		
55	158.7	155.6	195.6
56	124.1	114.6	154.6



Instrument :
BNA_F
ClientSampleId :
PB166982BS

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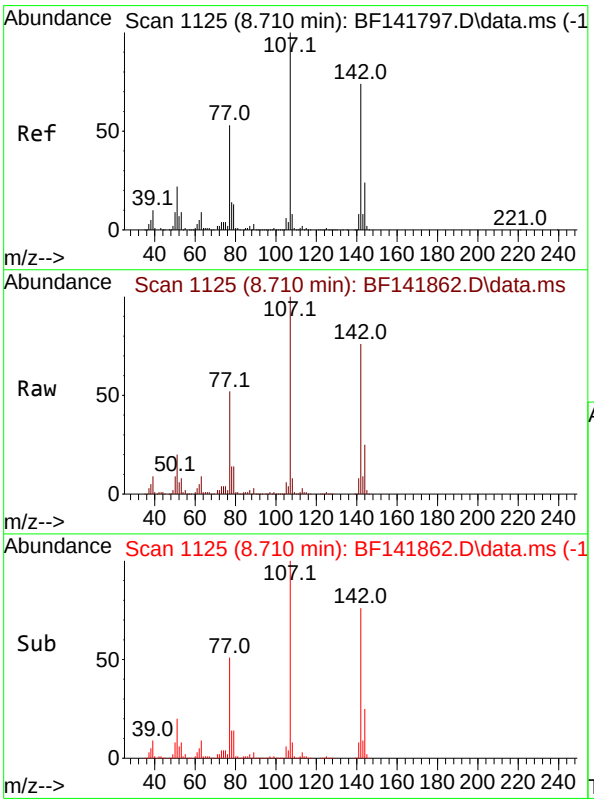
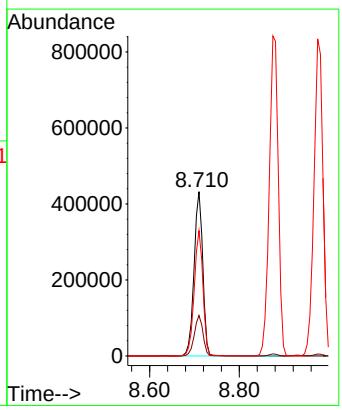
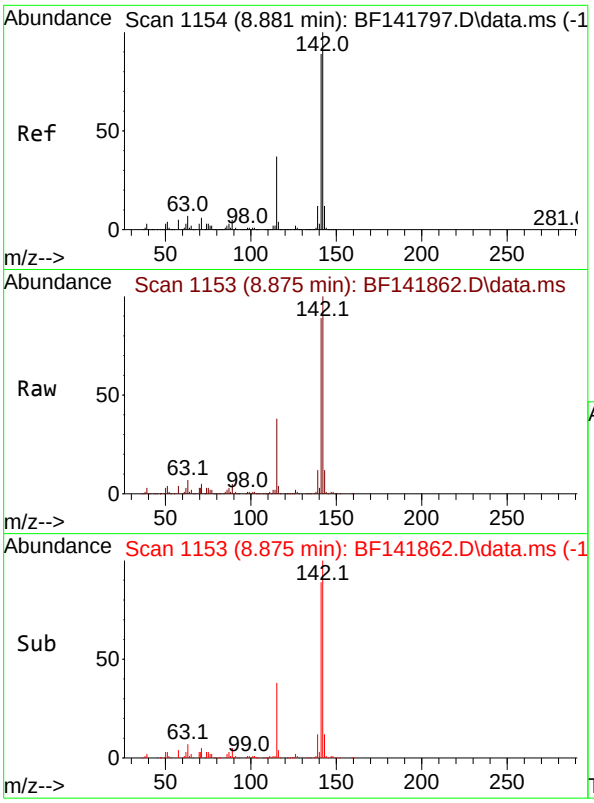


#36
4-Chloro-3-methylphenol
Concen: 44.302 ng
RT: 8.710 min Scan# 1125
Delta R.T. -0.000 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:107 Resp: 583807

Ion	Ratio	Lower	Upper
107	100		
144	24.6	19.4	29.0
142	76.2	59.4	89.0

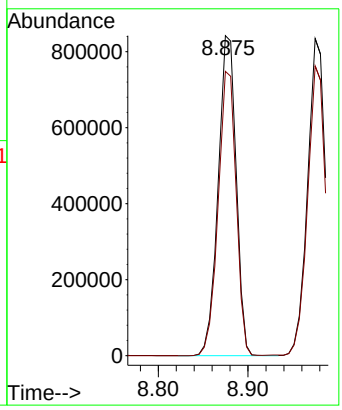




#37
2-Methylnaphthalene
Concen: 41.824 ng
RT: 8.875 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:142 Resp: 117348

Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.1	106.7



Instrument :
BNA_F
ClientSampleId :
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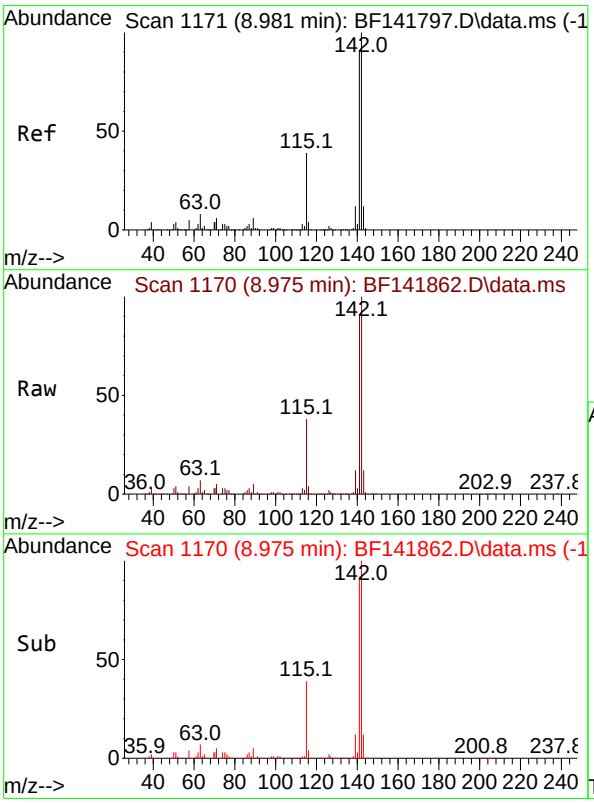
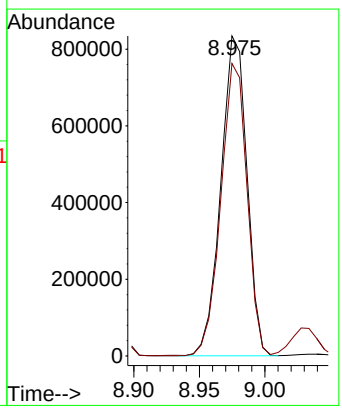
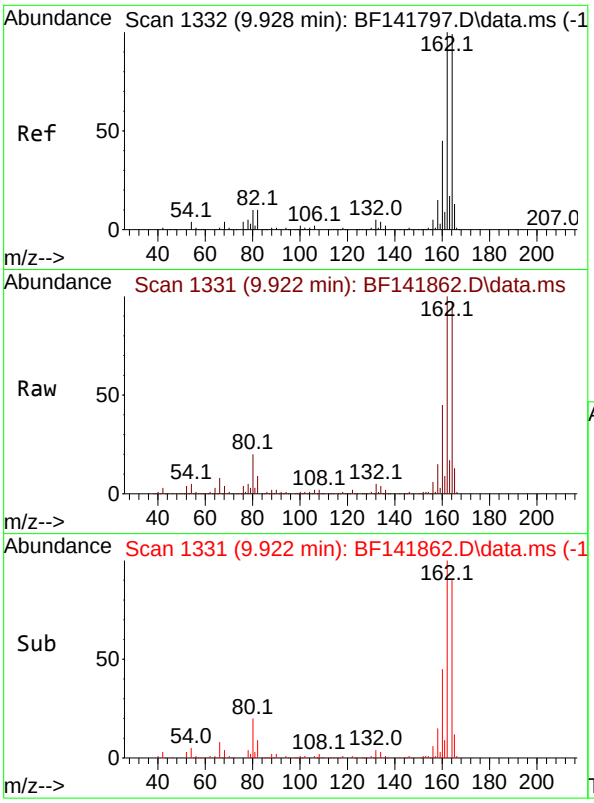


#38
1-Methylnaphthalene
Concen: 42.897 ng
RT: 8.975 min Scan# 1170
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:142 Resp: 1154869

Ion	Ratio	Lower	Upper
142	100		
141	91.4	73.1	109.7

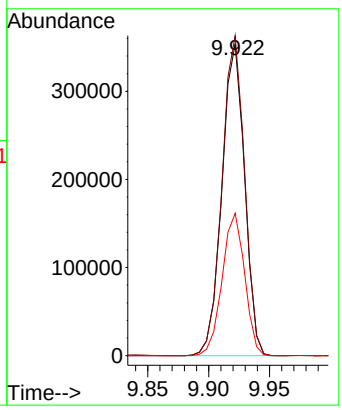




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:164 Resp: 45682

Ion	Ratio	Lower	Upper
164	100		
162	102.7	80.6	120.8
160	45.7	36.3	54.5



Instrument :
BNA_F
ClientSampleId :
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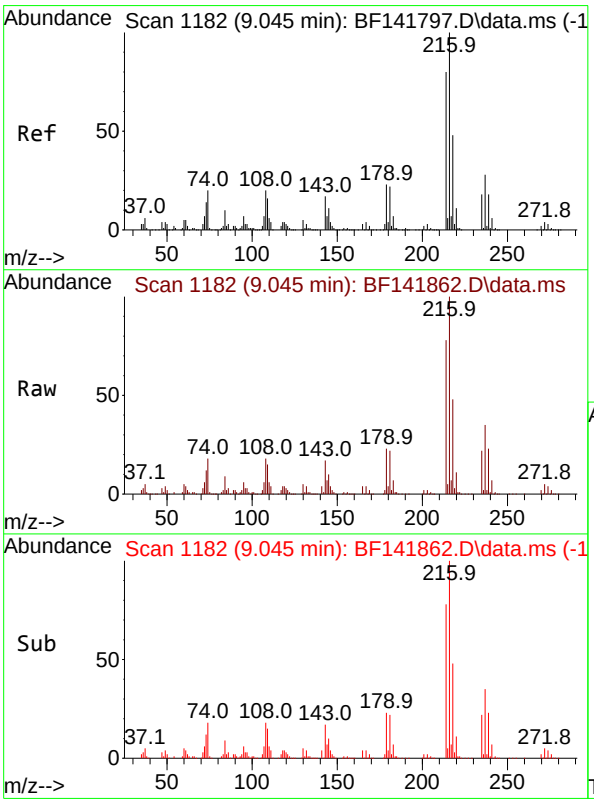
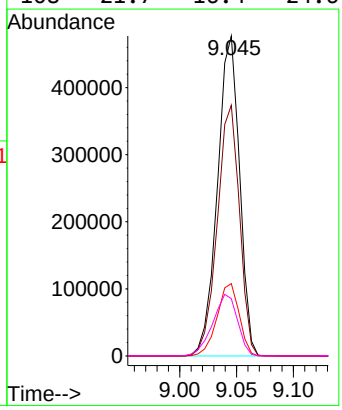
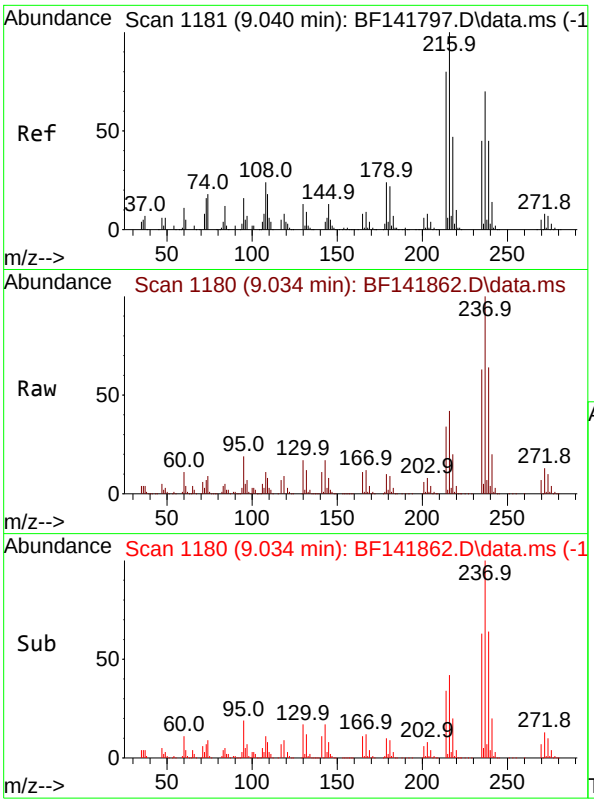


#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.928 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:216 Resp: 645530

Ion	Ratio	Lower	Upper
216	100		
214	78.7	63.5	95.3
179	22.7	18.1	27.1
108	21.7	16.4	24.6

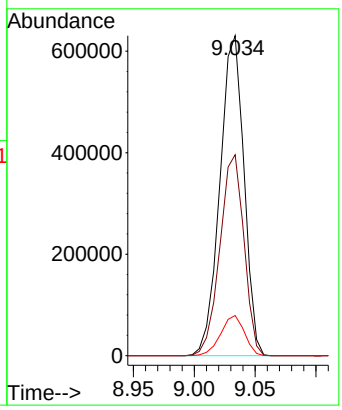




#41
Hexachlorocyclopentadiene
Concen: 157.703 ng
RT: 9.034 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:237 Resp: 86831

Ion	Ratio	Lower	Upper
237	100		
235	62.8	43.3	83.3
272	12.6	0.0	31.9



Instrument :
BNA_F
ClientSampleId :
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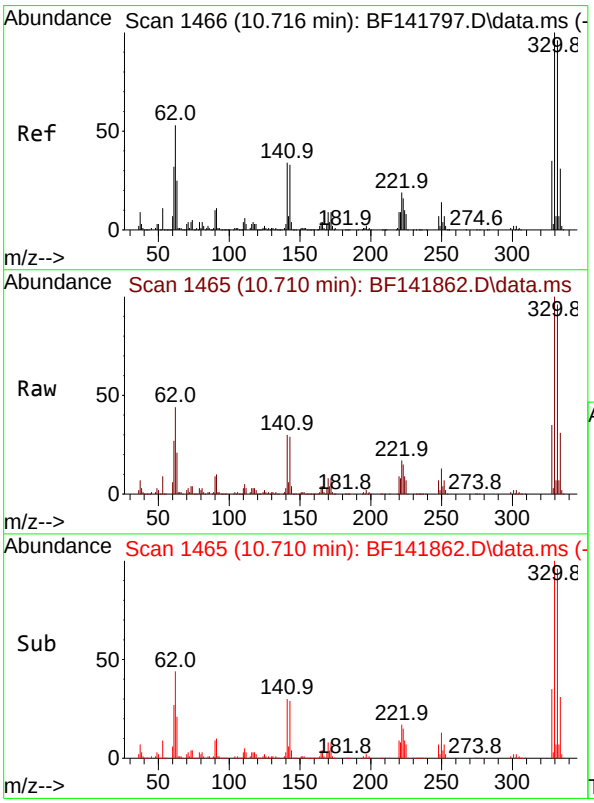
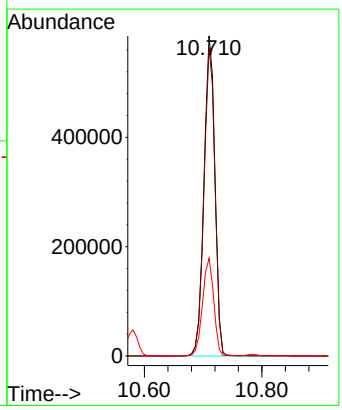
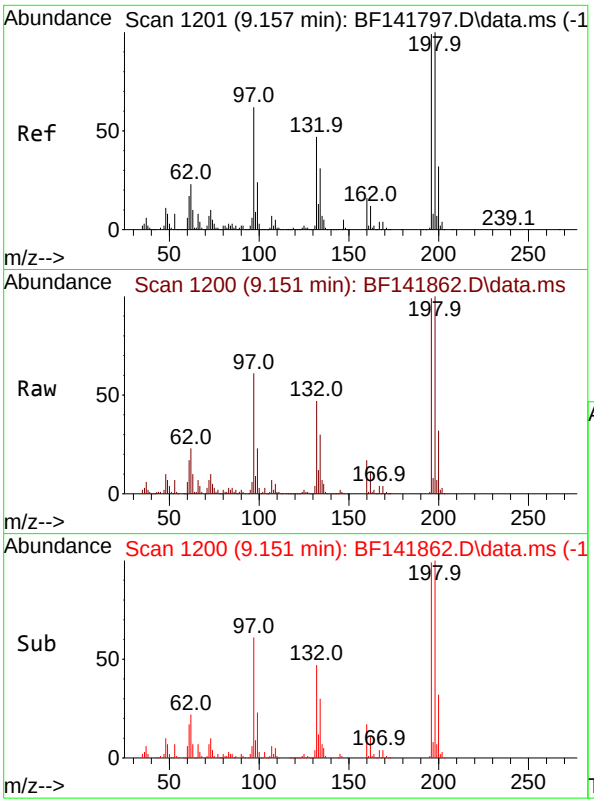


#42
2,4,6-Tribromophenol
Concen: 176.536 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:330 Resp: 757115

Ion	Ratio	Lower	Upper
330	100		
332	96.4	76.6	115.0
141	31.1	29.0	43.4

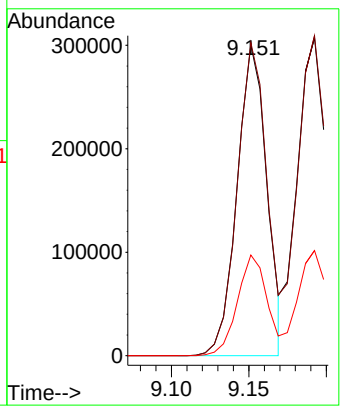




#43
2,4,6-Trichlorophenol
Concen: 46.993 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:196 Resp: 40050

Ion	Ratio	Lower	Upper
196	100		
198	100.7	80.4	120.6
200	32.4	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
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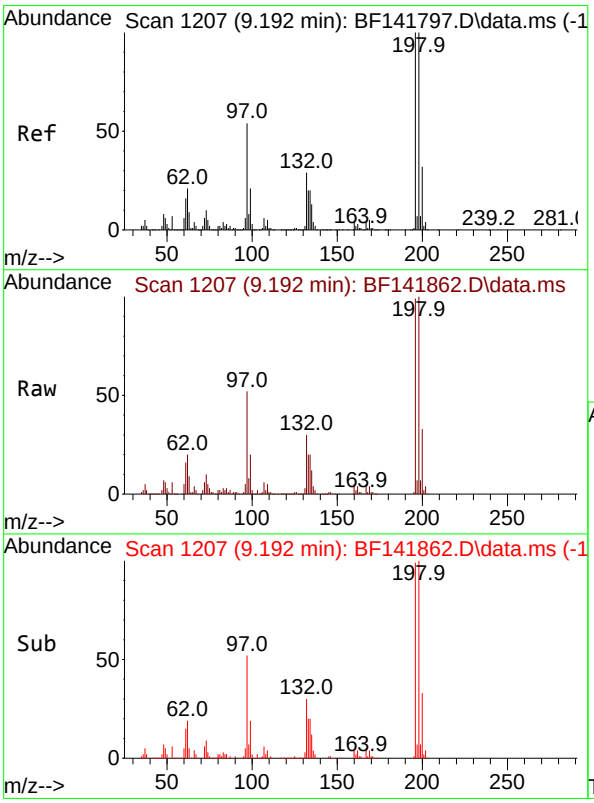
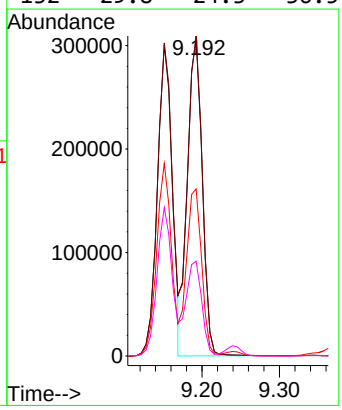
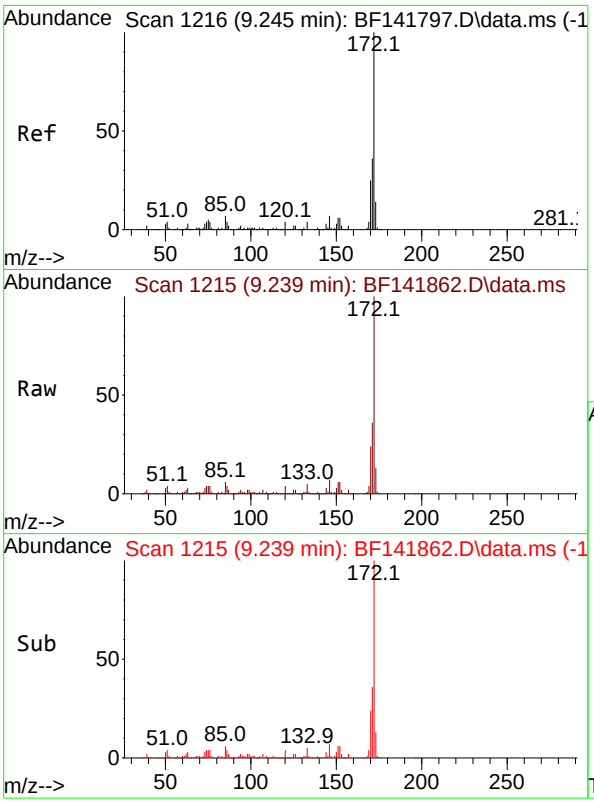


#44
2,4,5-Trichlorophenol
Concen: 48.574 ng
RT: 9.192 min Scan# 1207
Delta R.T. -0.000 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:196 Resp: 409928

Ion	Ratio	Lower	Upper
196	100		
198	100.7	79.7	119.5
97	52.6	44.2	66.2
132	29.8	24.3	36.5

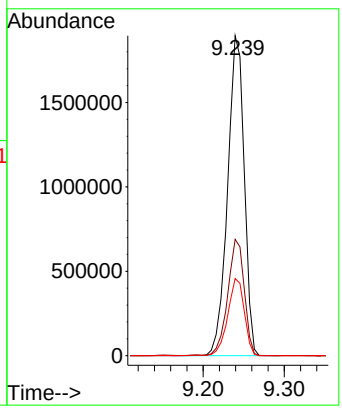




#45
2-Fluorobiphenyl
Concen: 94.705 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:172 Resp: 269814

Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.2	43.8
170	24.1	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
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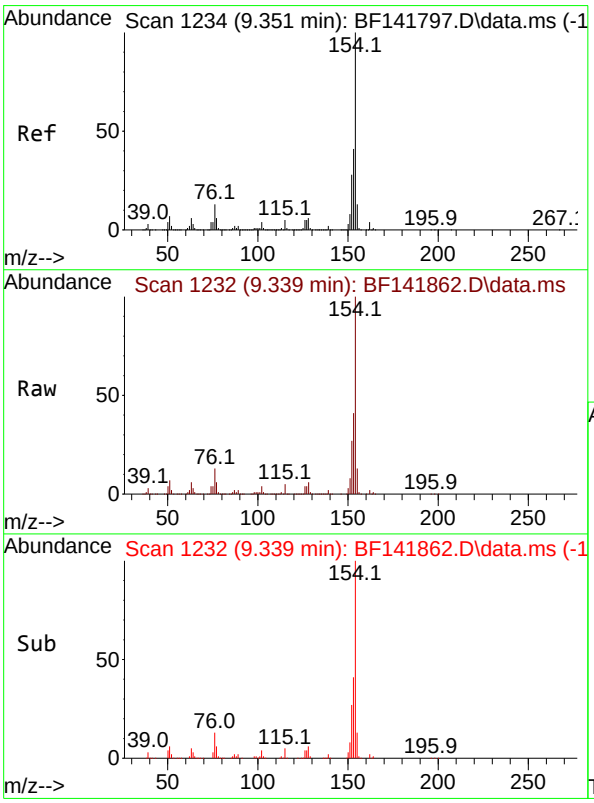
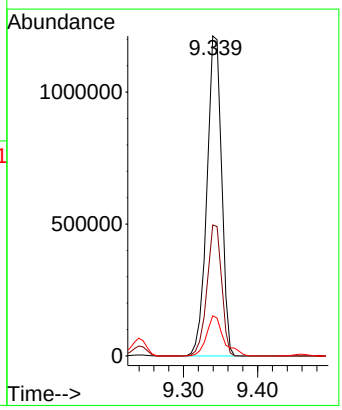
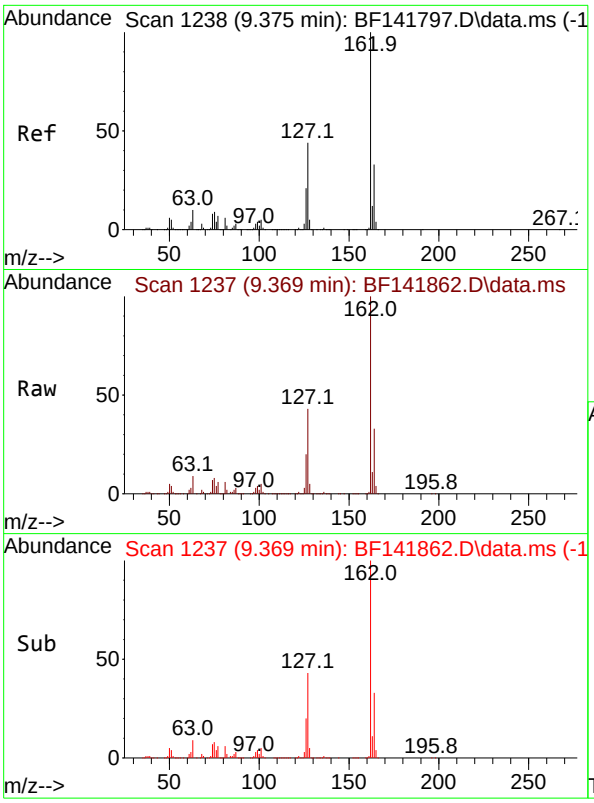


#46
1,1'-Biphenyl
Concen: 47.926 ng
RT: 9.339 min Scan# 1232
Delta R.T. -0.012 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:154 Resp: 1666460

Ion	Ratio	Lower	Upper
154	100		
153	41.0	21.4	61.4
76	12.6	0.0	33.4

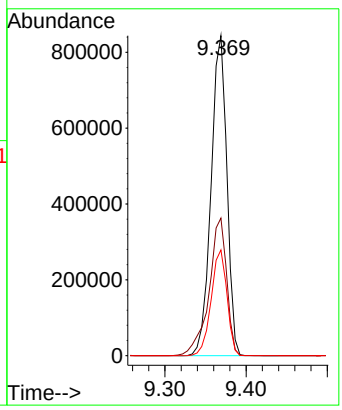




#47
2-Chloronaphthalene
Concen: 44.395 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:162 Resp: 113934

Ion	Ratio	Lower	Upper
162	100		
127	43.0	35.0	52.6
164	33.0	26.6	40.0



Instrument :
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ClientSampleId :
PB166982BS

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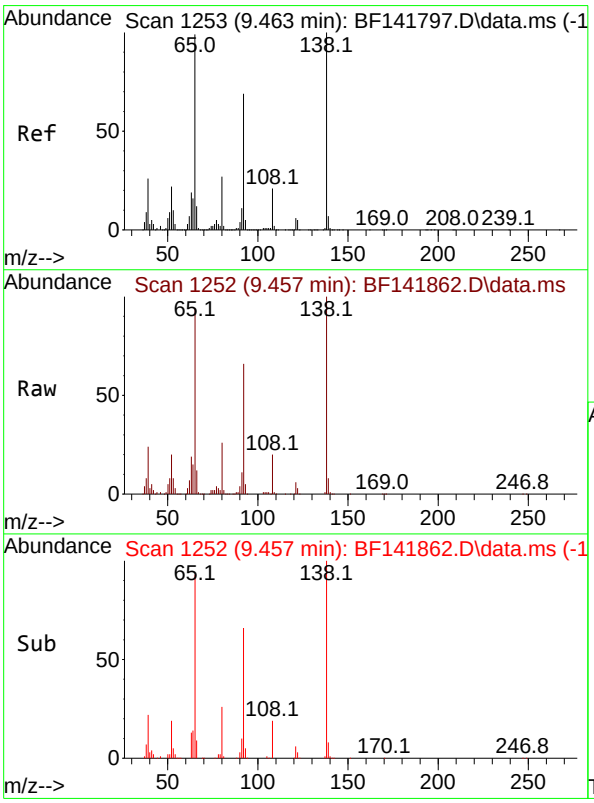
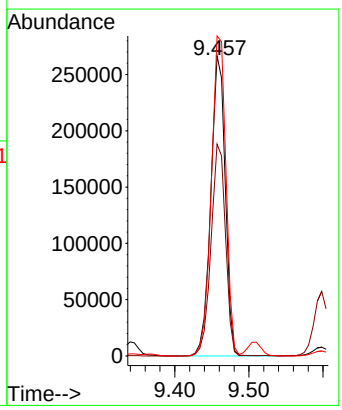
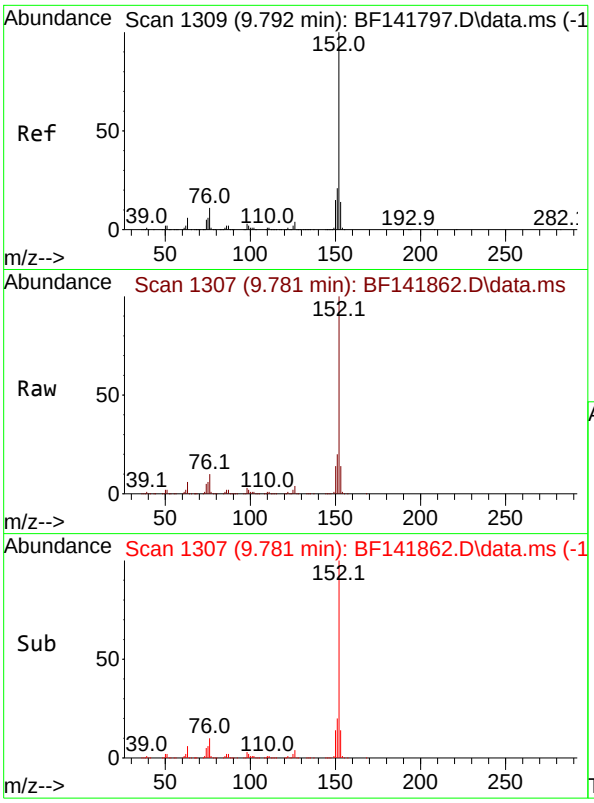


#48
2-Nitroaniline
Concen: 51.157 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion: 65 Resp: 361580

Ion	Ratio	Lower	Upper
65	100		
92	70.6	55.7	83.5
138	106.6	80.6	121.0

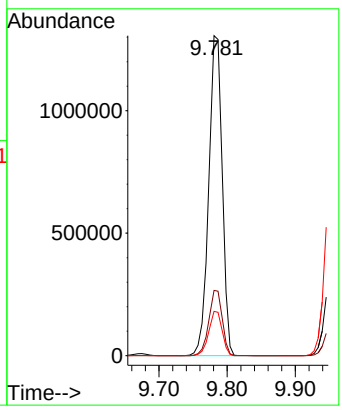




#49
Acenaphthylene
Concen: 46.755 ng
RT: 9.781 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:152 Resp: 179906

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	24.8
153	13.9	11.2	16.8



Instrument :
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ClientSampleId :
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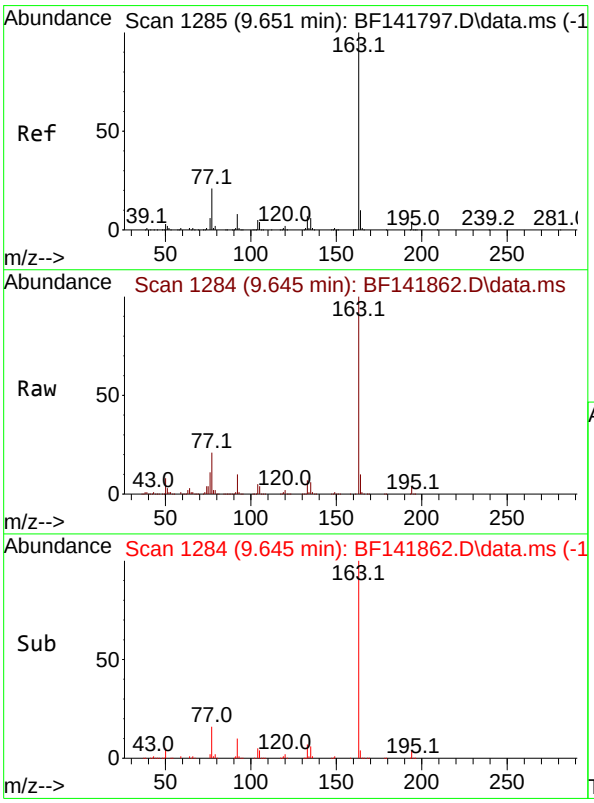
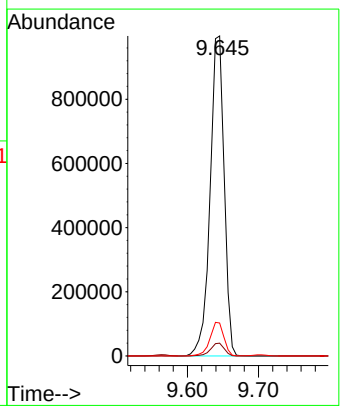
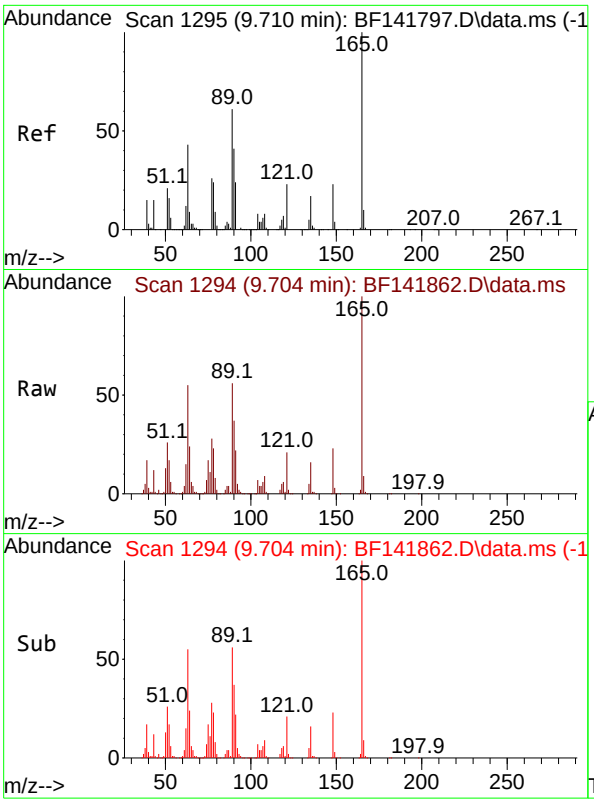


#50
Dimethylphthalate
Concen: 44.817 ng
RT: 9.645 min Scan# 1284
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:163 Resp: 1371047

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.3	8.4	12.6





#51
2,6-Dinitrotoluene
Concen: 51.243 ng
RT: 9.704 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:165 Resp: 30107

Ion	Ratio	Lower	Upper
165	100		
63	55.0	49.5	74.3
89	56.0	49.0	73.4

Instrument :
BNA_F
ClientSampleId :
PB166982BS

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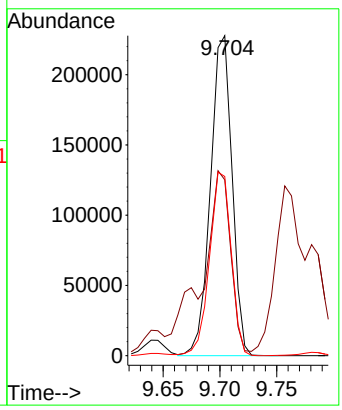
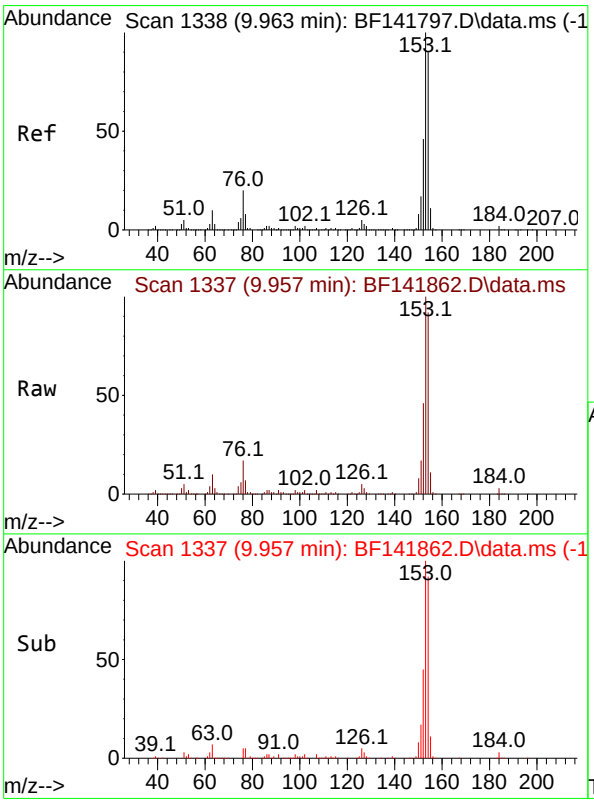
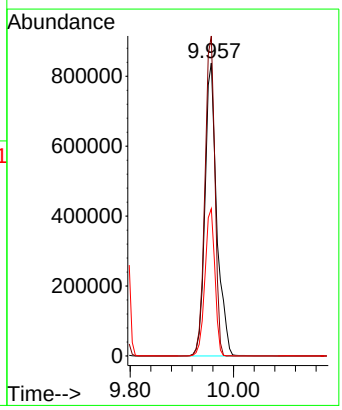


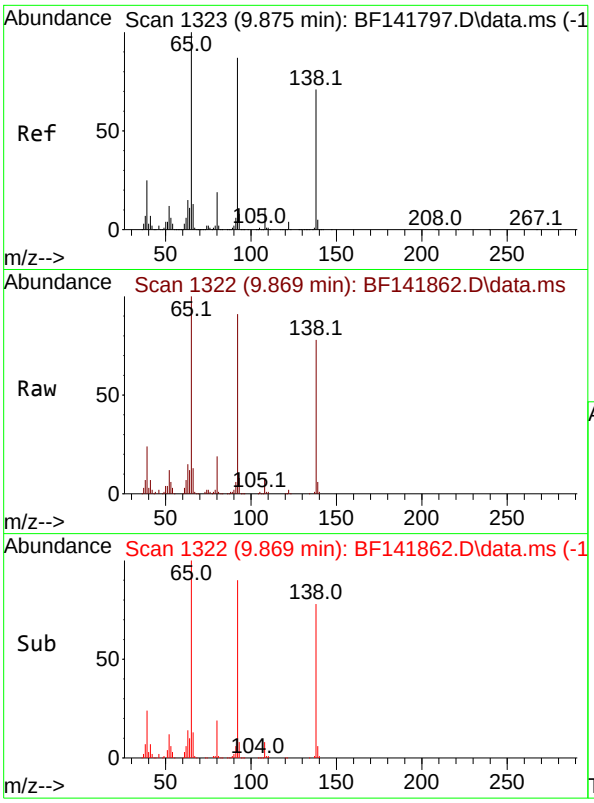


#52
Acenaphthene
Concen: 51.243 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:154 Resp: 1330436

Ion	Ratio	Lower	Upper
154	100		
153	109.2	88.7	133.1
152	50.3	40.9	61.3





#53
3-Nitroaniline
Concen: 33.745 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:138 Resp: 20450

Ion	Ratio	Lower	Upper
138	100		
108	10.8	12.7	19.1#
92	116.6	97.9	146.9

Instrument :
BNA_F
ClientSampleId :
PB166982BS

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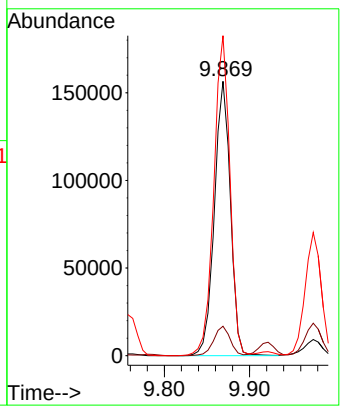
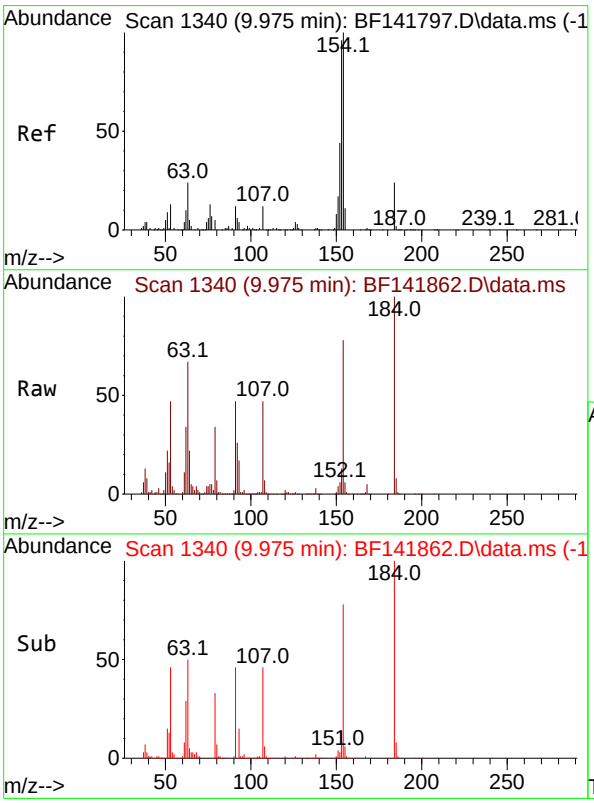
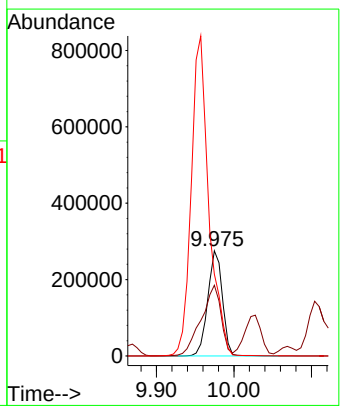


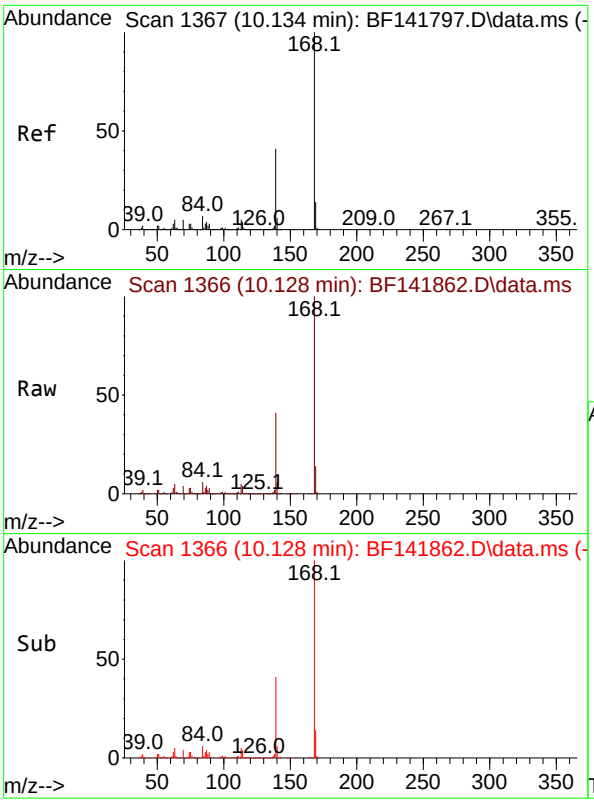


#54
2,4-Dinitrophenol
Concen: 116.229 ng
RT: 9.975 min Scan# 1340
Delta R.T. -0.000 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:184 Resp: 360919

Ion	Ratio	Lower	Upper
184	100		
63	67.3	79.0	118.6#
154	77.7	335.8	503.8#

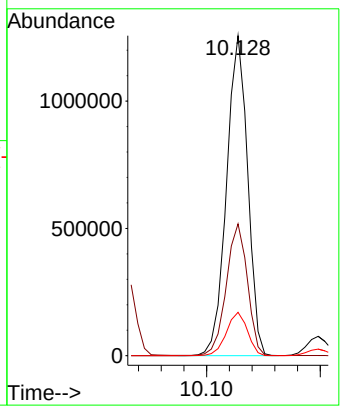




#55
Dibenzofuran
Concen: 42.900 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:168 Resp: 162117

Ion	Ratio	Lower	Upper
168	100		
139	41.2	32.9	49.3
169	13.5	11.1	16.7



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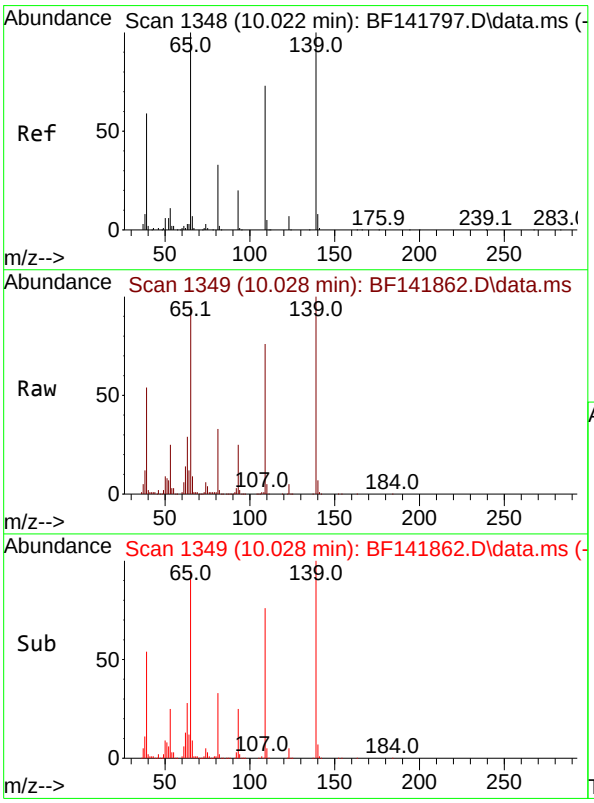
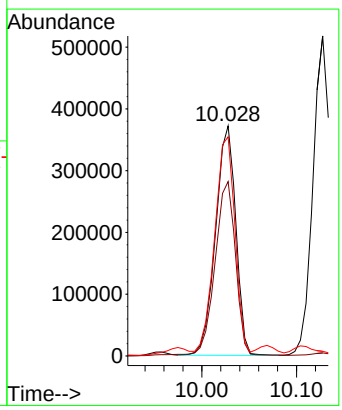
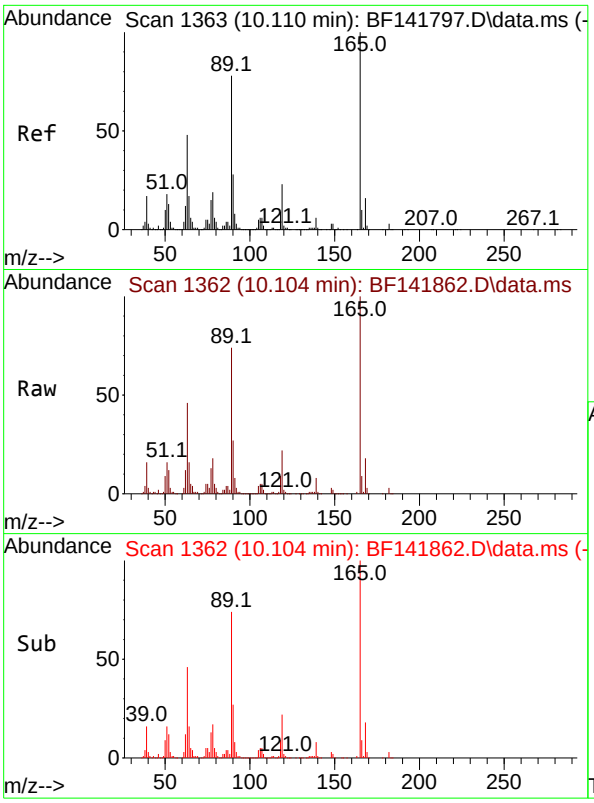


#56
4-Nitrophenol
Concen: 122.039 ng
RT: 10.028 min Scan# 1349
Delta R.T. 0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:139 Resp: 551414

Ion	Ratio	Lower	Upper
139	100		
109	75.8	53.4	93.4
65	95.2	82.1	122.1

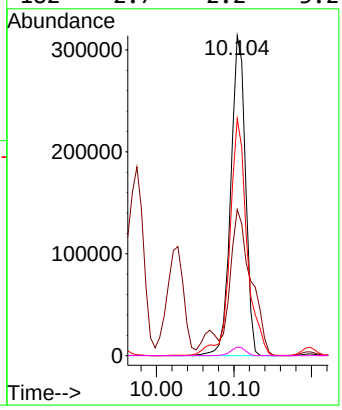




#57
2,4-Dinitrotoluene
Concen: 57.376 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:165 Resp: 41545

Ion	Ratio	Lower	Upper
165	100		
63	45.6	38.8	58.2
89	74.1	62.6	94.0
182	2.7	2.2	3.2



Instrument :
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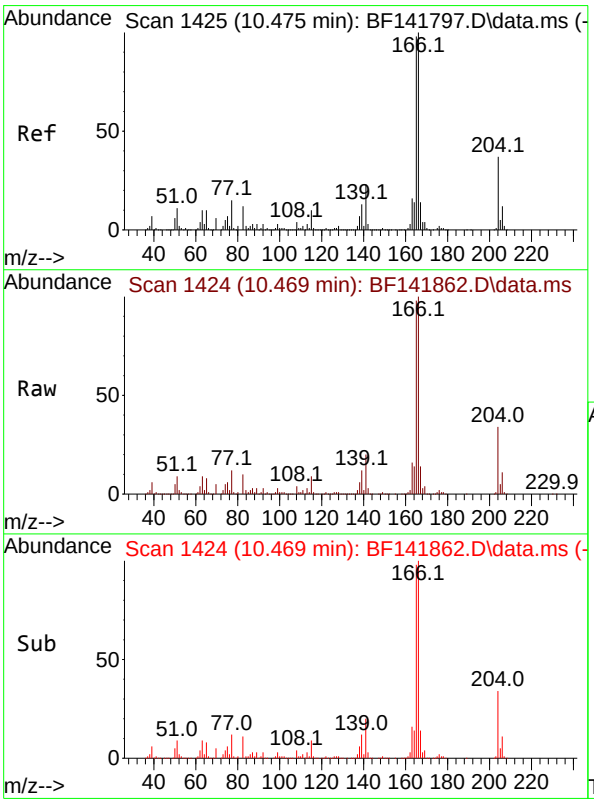
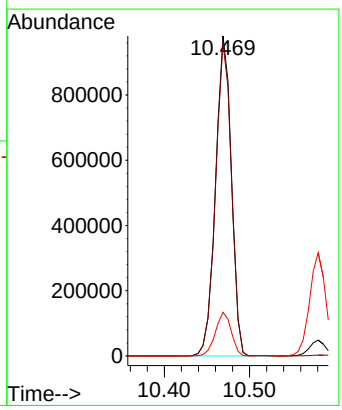
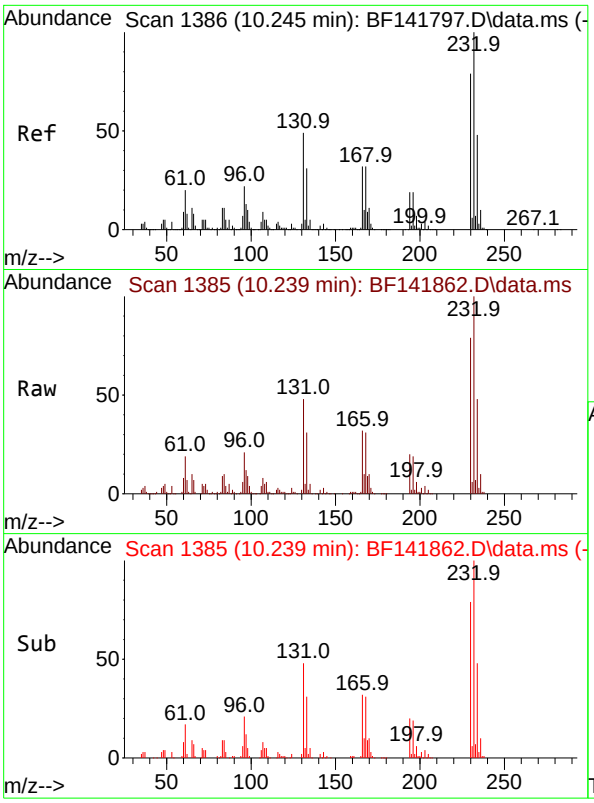


#58
Fluorene
Concen: 44.940 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:166 Resp: 1272097

Ion	Ratio	Lower	Upper
166	100		
165	97.8	78.6	117.8
167	13.6	11.0	16.4

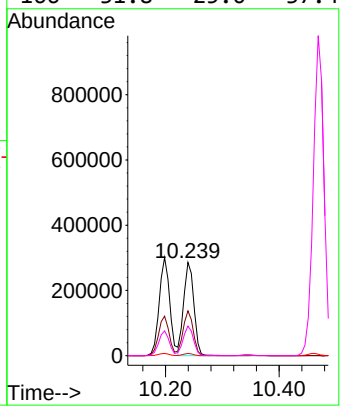




#59
2,3,4,6-Tetrachlorophenol
Concen: 48.365 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:232 Resp: 35498

Ion	Ratio	Lower	Upper
232	100		
131	48.2	37.8	56.8
130	2.4	2.0	3.0
166	31.8	25.0	37.4



Instrument :
BNA_F
ClientSampleId :
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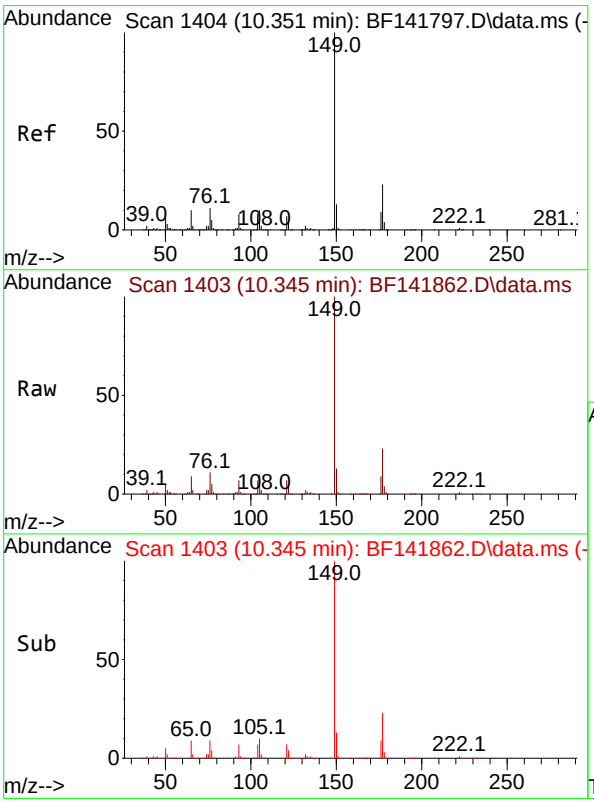
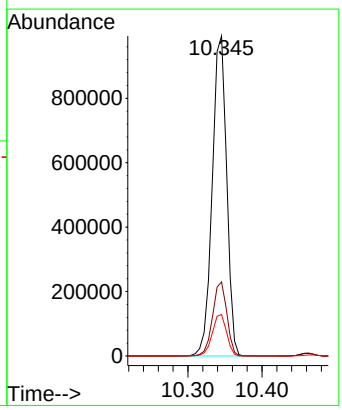
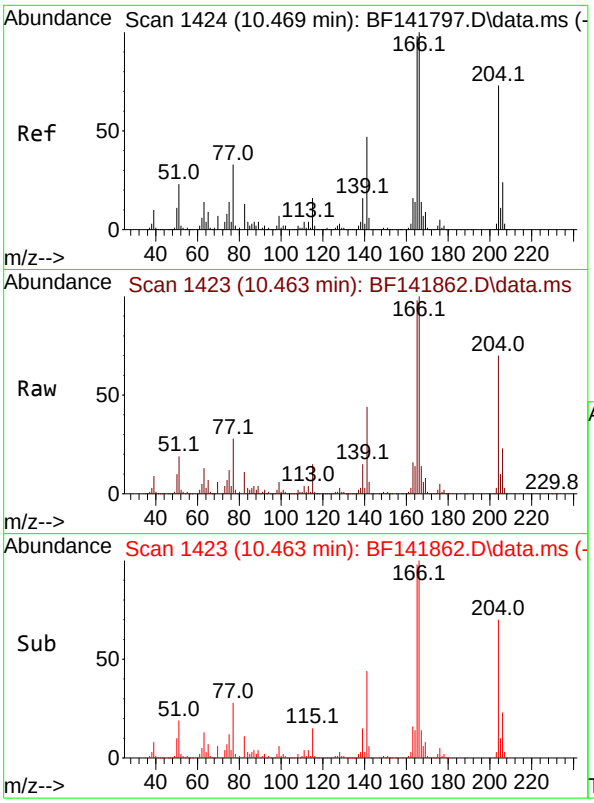


#60
Diethylphthalate
Concen: 43.731 ng
RT: 10.345 min Scan# 1403
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:149 Resp: 1341179

Ion	Ratio	Lower	Upper
149	100		
177	23.2	18.3	27.5
150	12.9	10.3	15.5





#61
4-Chlorophenyl-phenylether
Concen: 44.893 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Instrument :
BNA_F
ClientSampleId :
PB166982BS

Tgt Ion:204 Resp: 63668

Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.2	39.4
141	63.0	51.7	77.5

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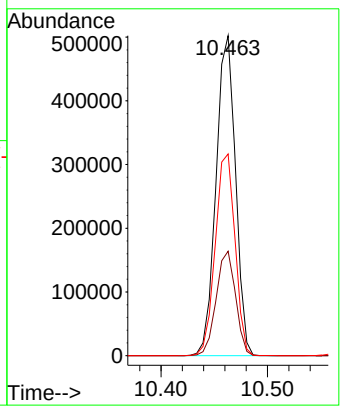
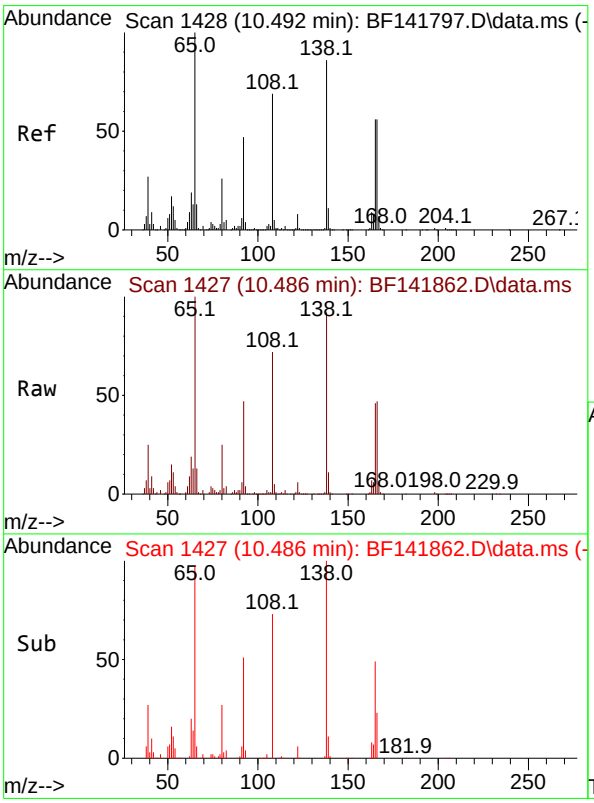
Supervised By :Jagrut Upadhyay 03/07/2025

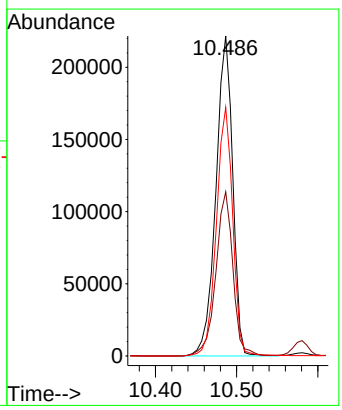


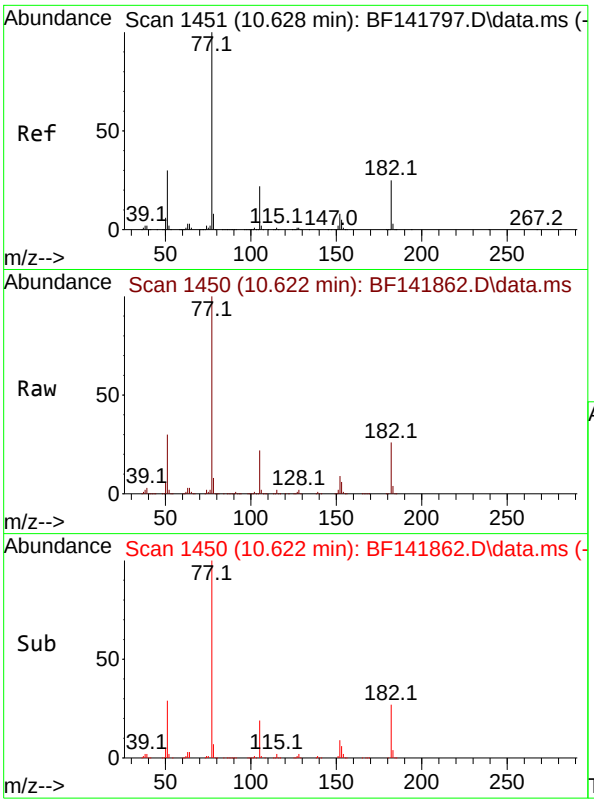


#62
4-Nitroaniline
Concen: 61.255 ng
RT: 10.486 min Scan# 1427
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:138 Resp: 320025

Ion	Ratio	Lower	Upper
138	100		
92	51.3	34.9	74.9
108	77.7	59.6	99.6

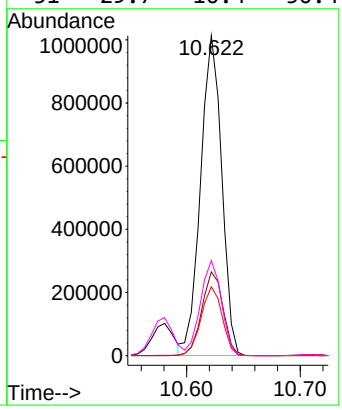




#63
Azobenzene
Concen: 40.561 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion: 77 Resp: 130976

Ion	Ratio	Lower	Upper
77	100		
182	26.2	4.2	44.2
105	21.5	1.5	41.5
51	29.7	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
PB166982BS

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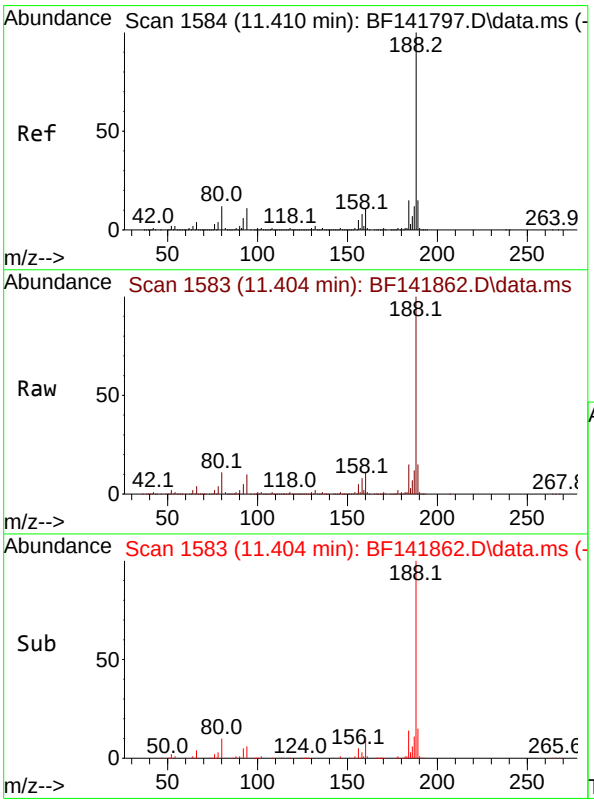
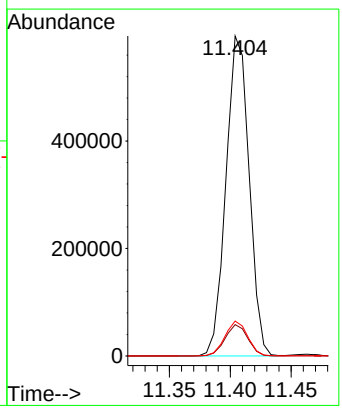
Supervised By :Jagrut Upadhyay 03/07/2025

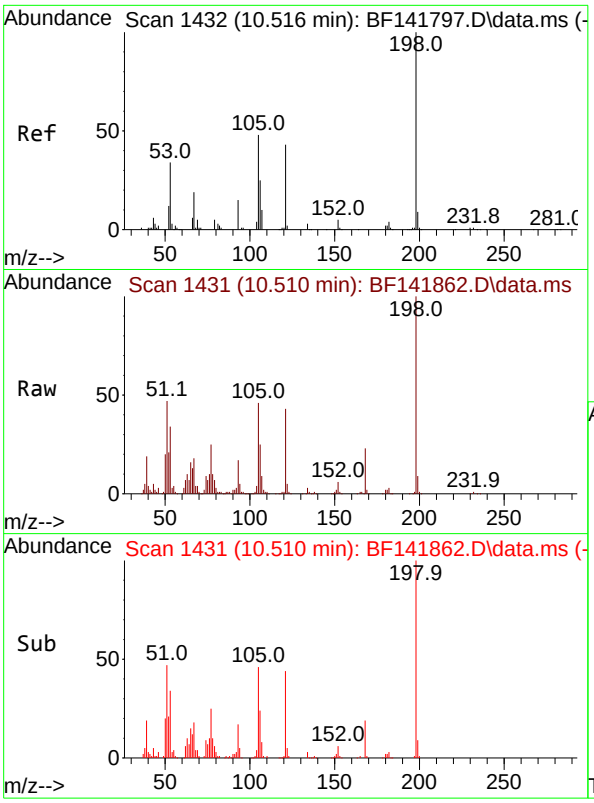


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:188 Resp: 789268

Ion	Ratio	Lower	Upper
188	100		
94	9.8	8.9	13.3
80	10.9	9.7	14.5





#65
4,6-Dinitro-2-methylphenol
Concen: 59.852 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:198 Resp: 23143

Ion	Ratio	Lower	Upper
198	100		
51	46.8	32.1	72.1
105	45.6	28.5	68.5

Instrument :
BNA_F
ClientSampleId :
PB166982BS

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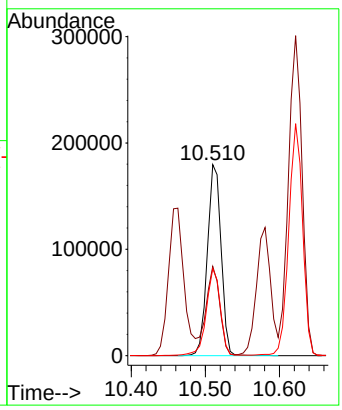
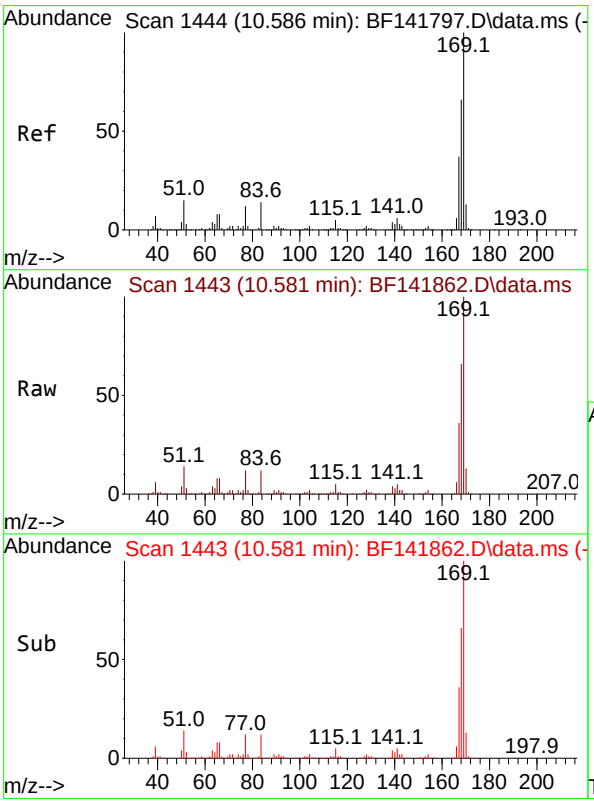
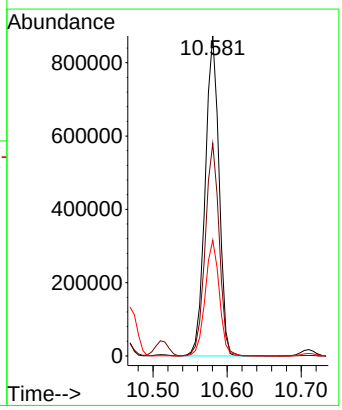


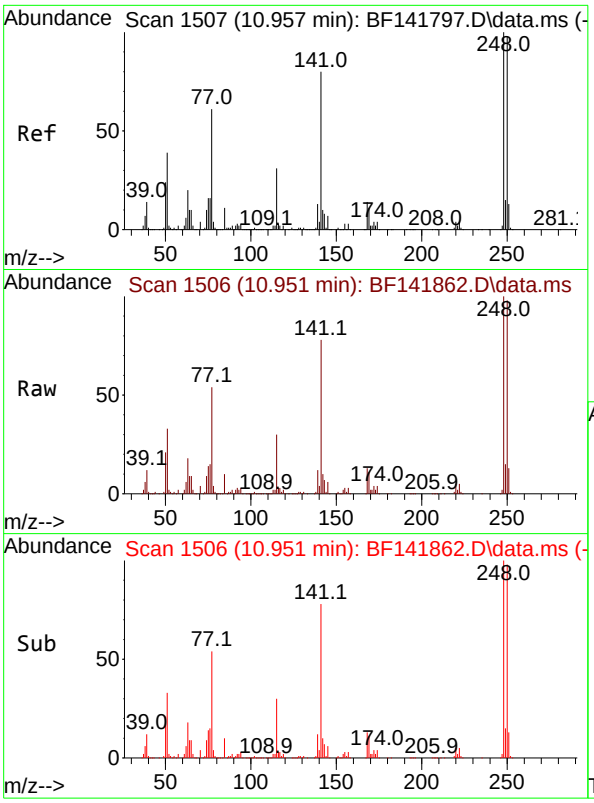


#66
n-Nitrosodiphenylamine
Concen: 43.596 ng
RT: 10.581 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:169 Resp: 1129867

Ion	Ratio	Lower	Upper
169	100		
168	66.4	53.0	79.6
167	36.2	29.3	43.9





#67
4-Bromophenyl-phenylether
Concen: 44.376 ng
RT: 10.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:248 Resp: 40910

Ion	Ratio	Lower	Upper
248	100		
250	97.9	78.1	117.1
141	77.5	64.3	96.5

Instrument :
BNA_F
ClientSampleId :
PB166982BS

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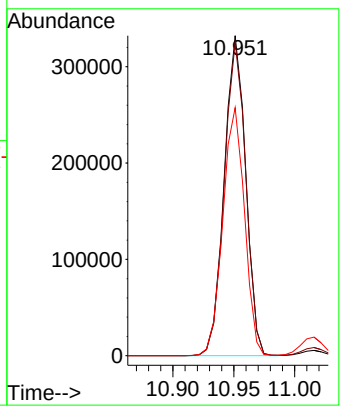
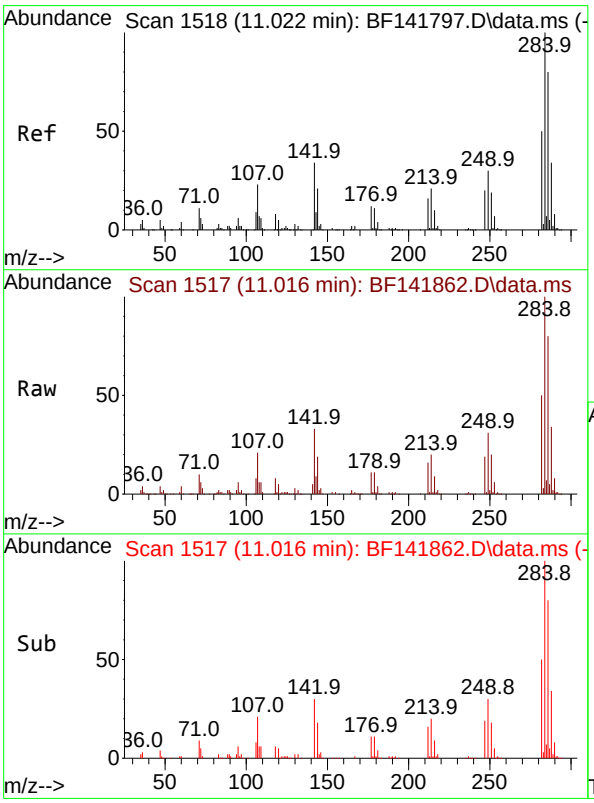
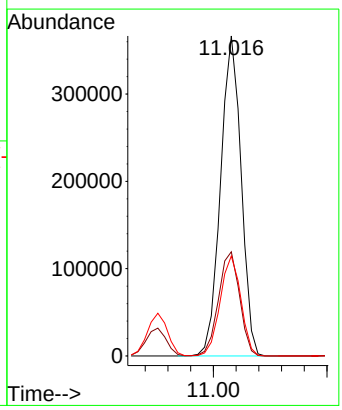


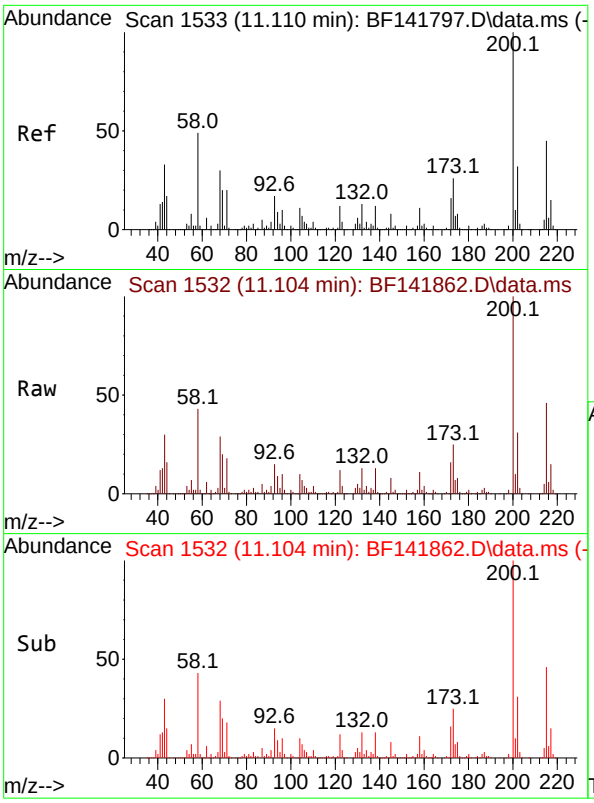


#68
Hexachlorobenzene
Concen: 47.300 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:284 Resp: 460465

Ion	Ratio	Lower	Upper
284	100		
142	32.5	28.2	42.2
249	31.2	25.5	38.3

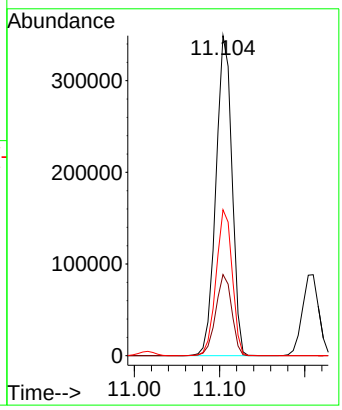




#69
Atrazine
Concen: 64.122 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:200 Resp: 45699

Ion	Ratio	Lower	Upper
200	100		
173	25.4	5.6	45.6
215	45.6	25.3	65.3



Instrument :
BNA_F
ClientSampleId :
PB166982BS

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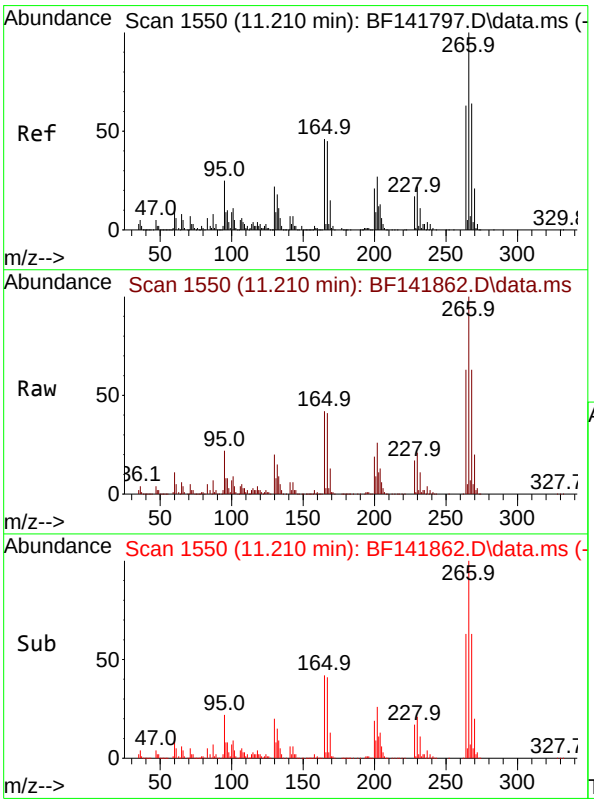
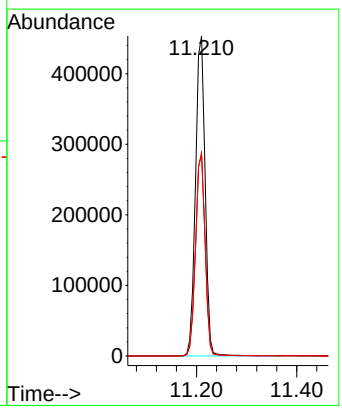
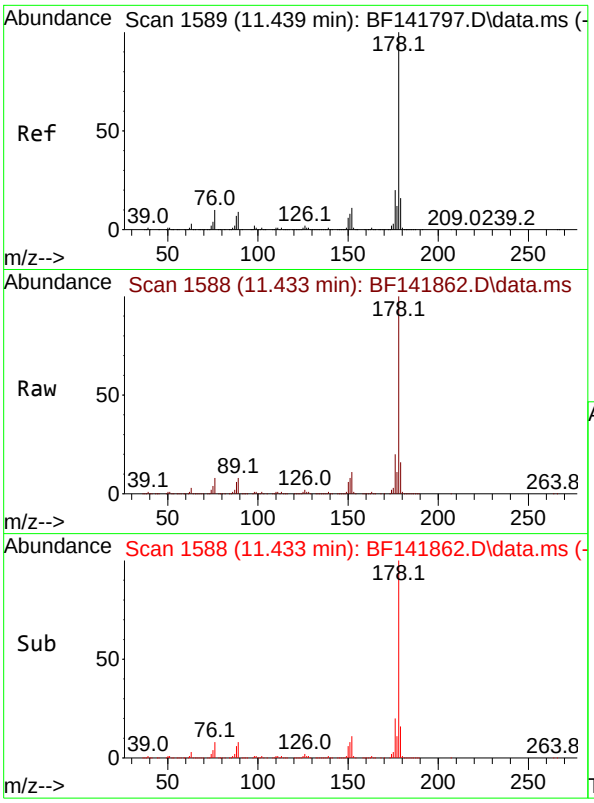


#70
Pentachlorophenol
Concen: 97.683 ng
RT: 11.210 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:266 Resp: 603121

Ion	Ratio	Lower	Upper
266	100		
268	63.4	50.9	76.3
264	63.1	50.2	75.4

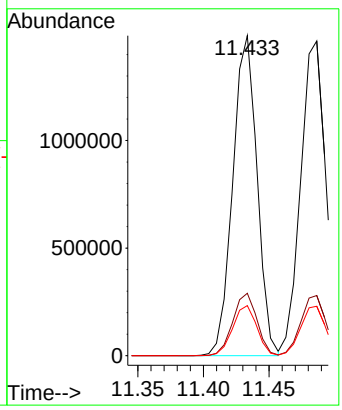




#71
Phenanthrene
Concen: 45.456 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:178 Resp: 191907

Ion	Ratio	Lower	Upper
178	100		
176	19.5	16.0	24.0
179	15.6	12.6	19.0



Instrument :
BNA_F
ClientSampleId :
PB166982BS

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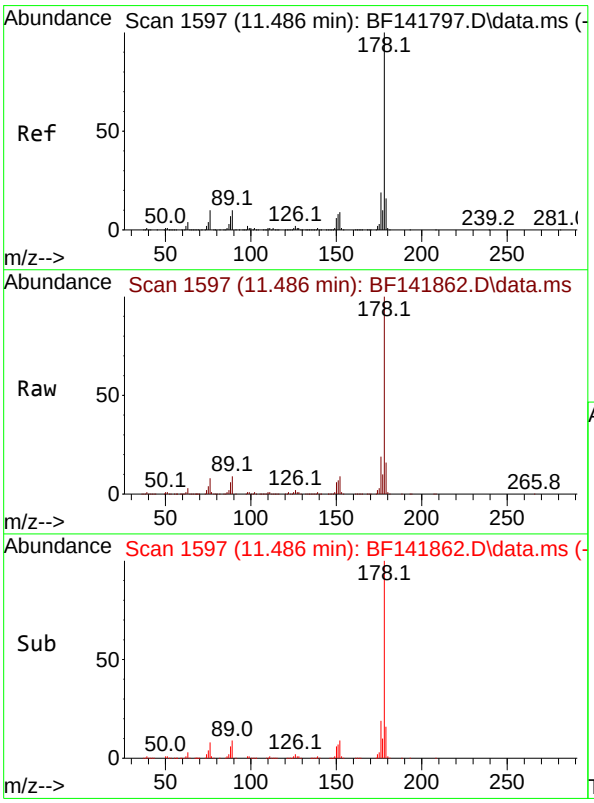
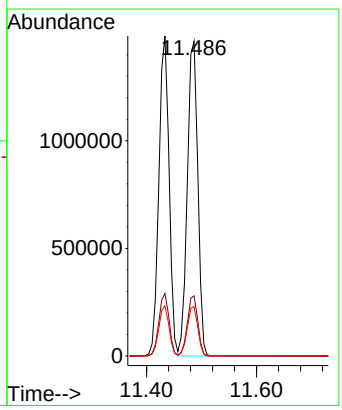
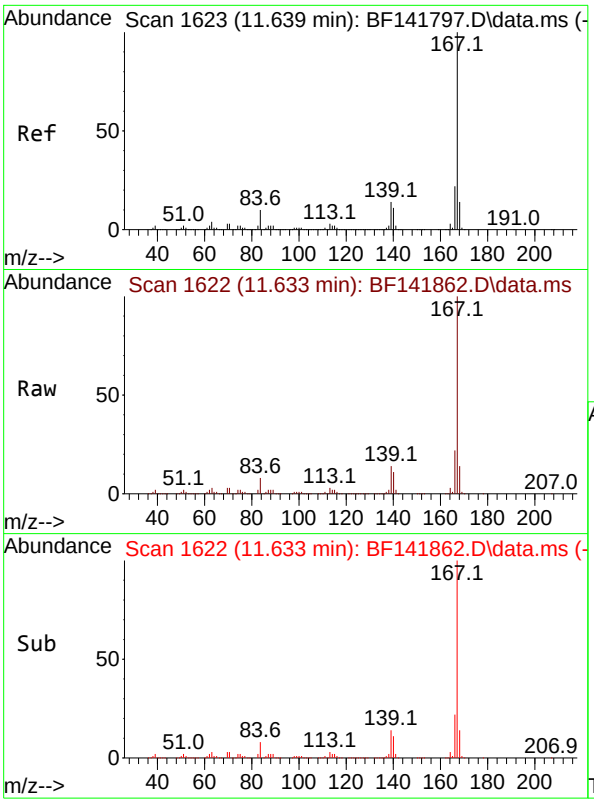


#72
Anthracene
Concen: 45.759 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.000 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:178 Resp: 1936157

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	15.7	12.8	19.2

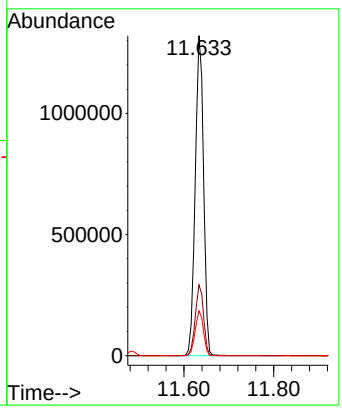




#73
Carbazole
Concen: 45.601 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:167 Resp: 170387

Ion	Ratio	Lower	Upper
167	100		
166	22.1	17.5	26.3
139	14.0	11.3	16.9



Instrument :
BNA_F
ClientSampleId :
PB166982BS

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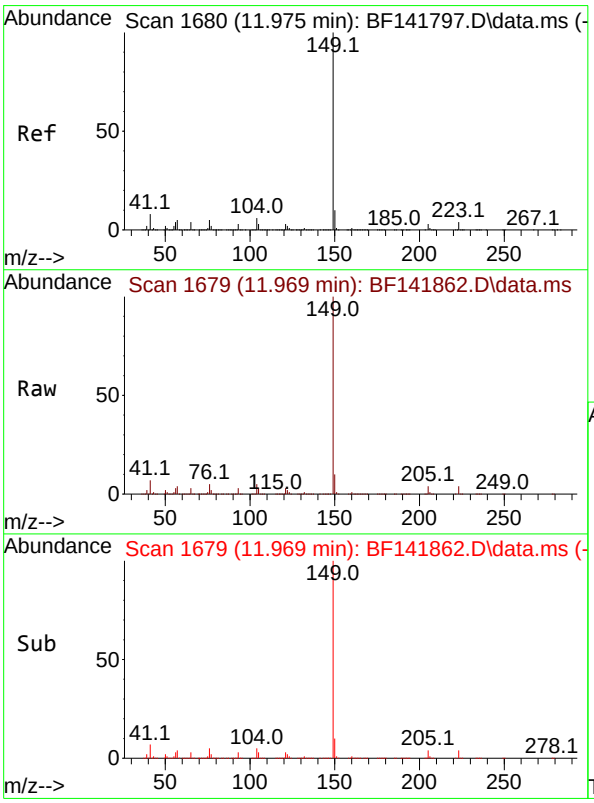
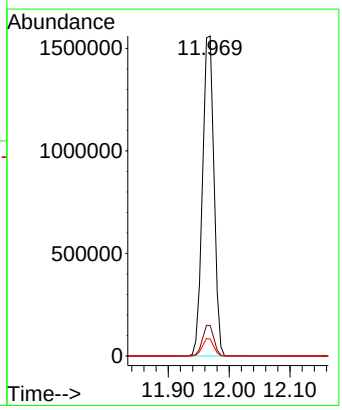
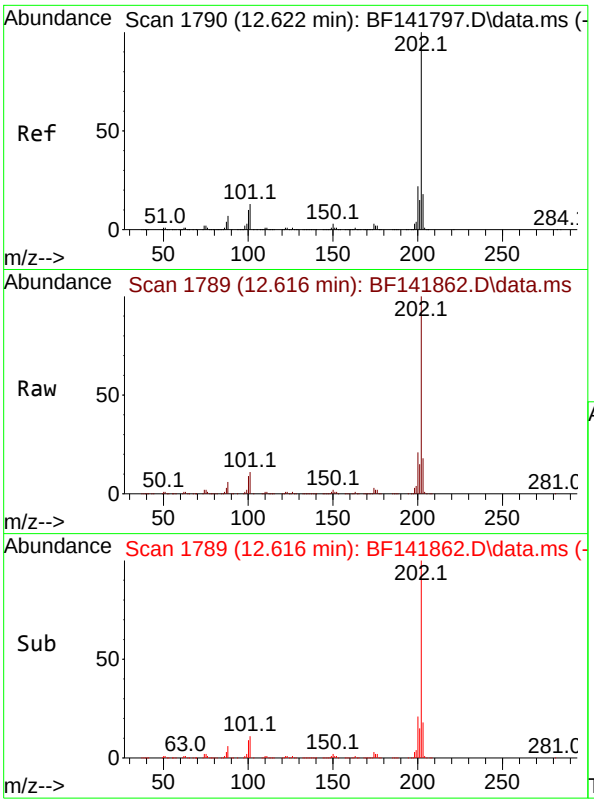


#74
Di-n-butylphthalate
Concen: 43.126 ng
RT: 11.969 min Scan# 1679
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:149 Resp: 2042563

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.7	11.5
104	5.3	4.4	6.6

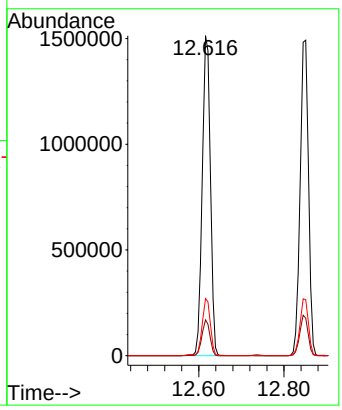




#75
Fluoranthene
Concen: 46.480 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:202 Resp: 201070

Ion	Ratio	Lower	Upper
202	100		
101	11.2	0.0	32.8
203	17.8	0.0	38.0



Instrument :
BNA_F
ClientSampleId :
PB166982BS

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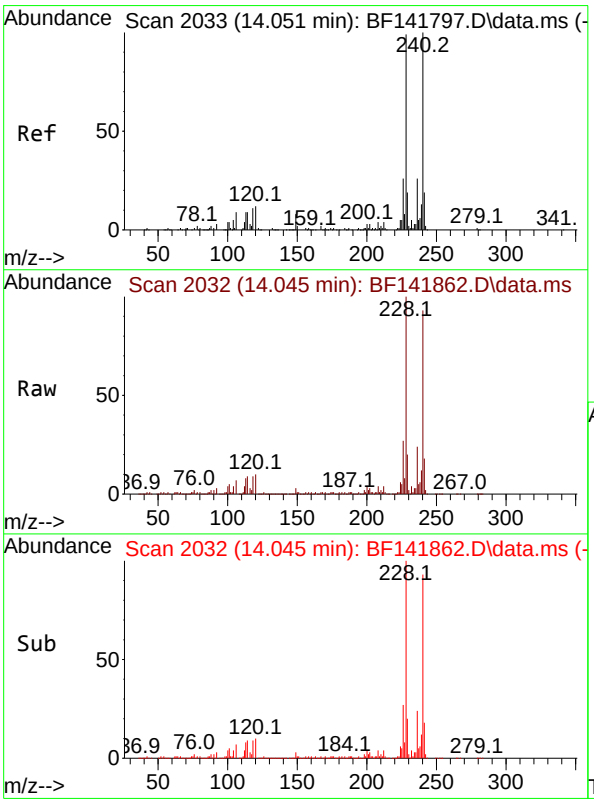
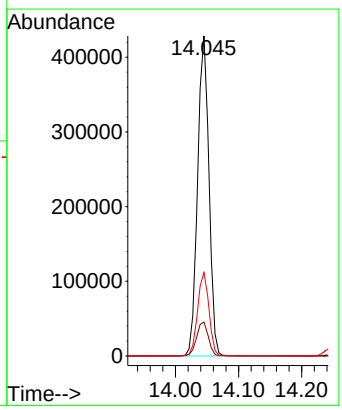
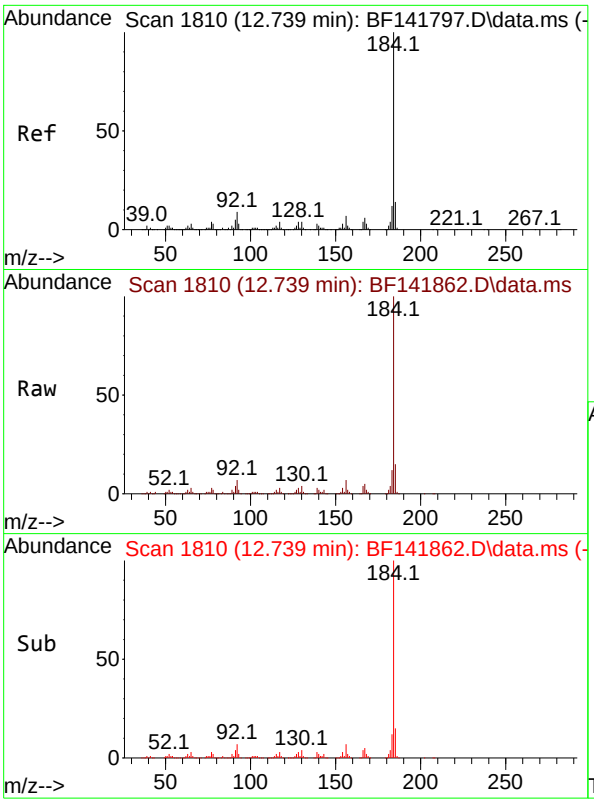


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:240 Resp: 533191

Ion	Ratio	Lower	Upper
240	100		
120	10.6	9.7	14.5
236	26.1	21.0	31.4

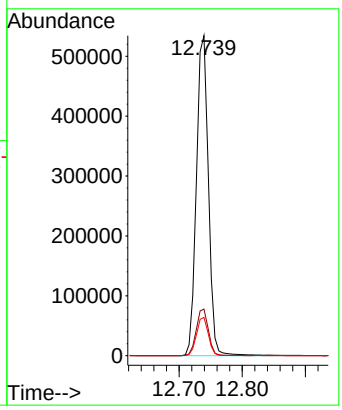




#77
Benzidine
Concen: 104.868 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:184 Resp: 70376

Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.6	17.4
183	12.0	9.4	14.0



Instrument :
BNA_F
ClientSampleId :
PB166982BS

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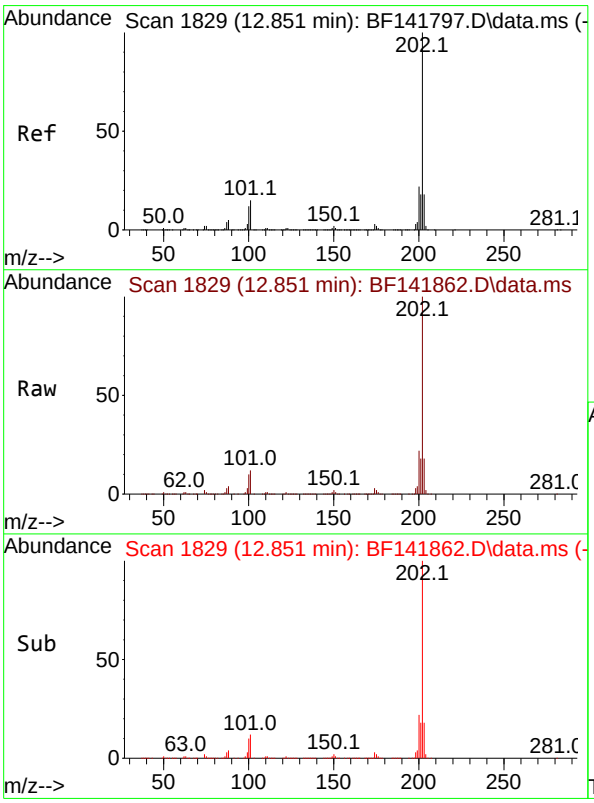
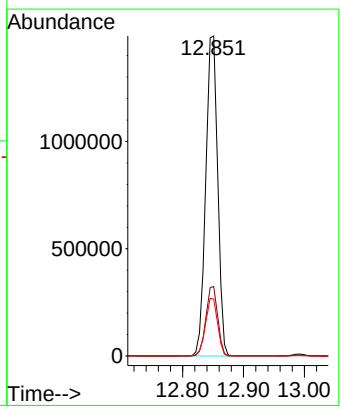
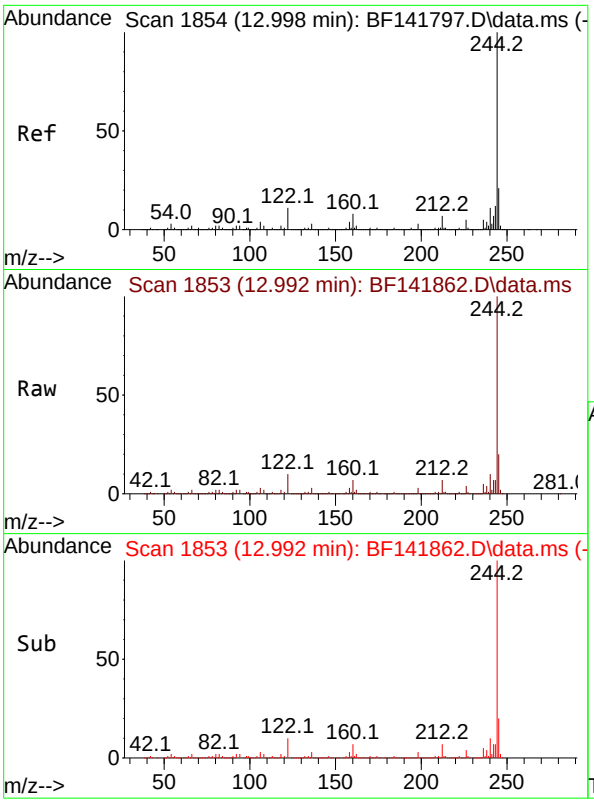


#78
Pyrene
Concen: 44.041 ng
RT: 12.851 min Scan# 1829
Delta R.T. -0.000 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:202 Resp: 2033437

Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.4	26.0
203	17.8	14.6	22.0

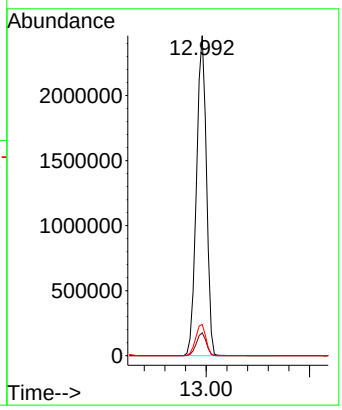




#79
Terphenyl-d14
Concen: 99.859 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:244 Resp: 329087

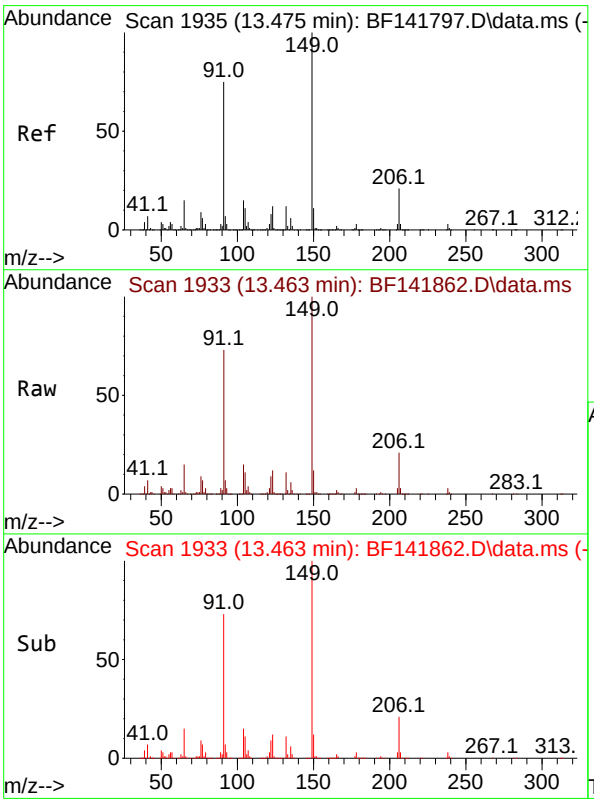
Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	9.8	9.0	13.6



Instrument :
BNA_F
ClientSampleId :
PB166982BS

Manual Integrations
APPROVED

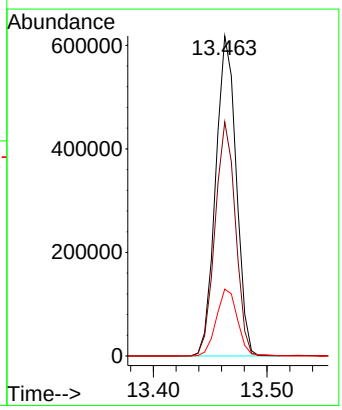
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

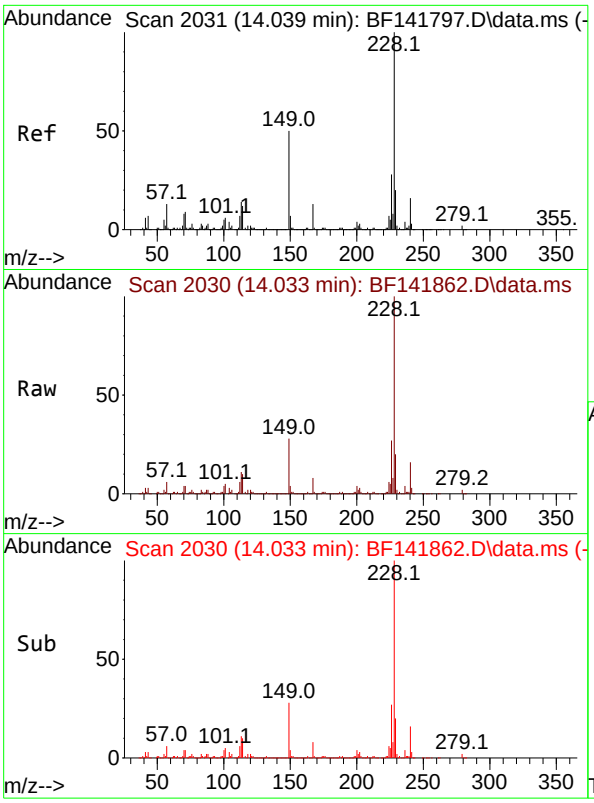


#80
Butylbenzylphthalate
Concen: 46.457 ng
RT: 13.463 min Scan# 1933
Delta R.T. -0.012 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:149 Resp: 779324

Ion	Ratio	Lower	Upper
149	100		
91	73.2	60.1	90.1
206	20.9	16.8	25.2





#81
Benzo(a)anthracene
Concen: 45.626 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:228 Resp: 160685

Ion	Ratio	Lower	Upper
228	100		
226	27.1	22.1	33.1
229	20.0	16.1	24.1

Instrument :
BNA_F
ClientSampleId :
PB166982BS

Manual Integrations
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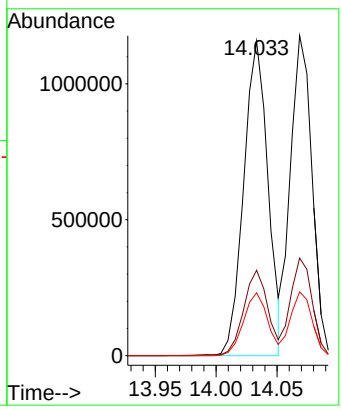
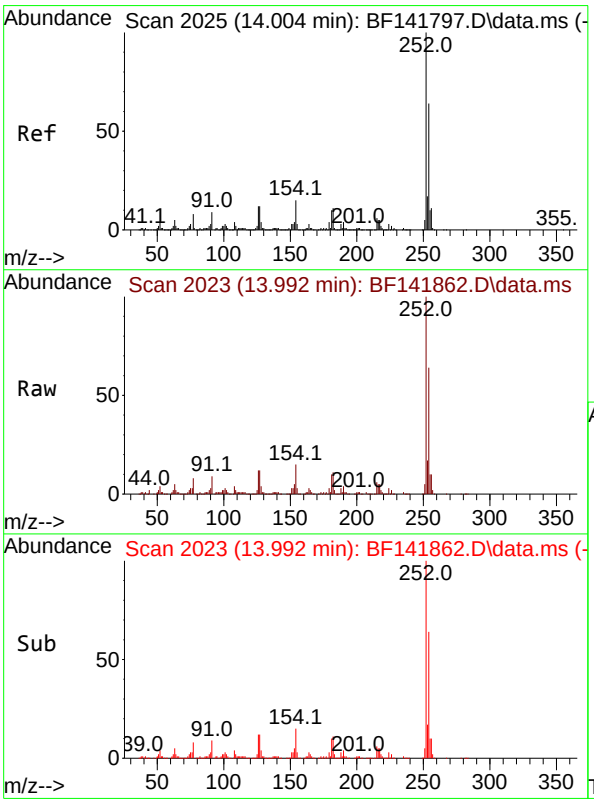
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

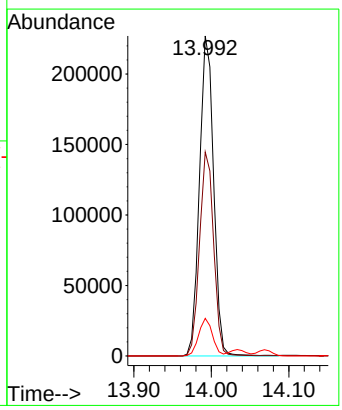


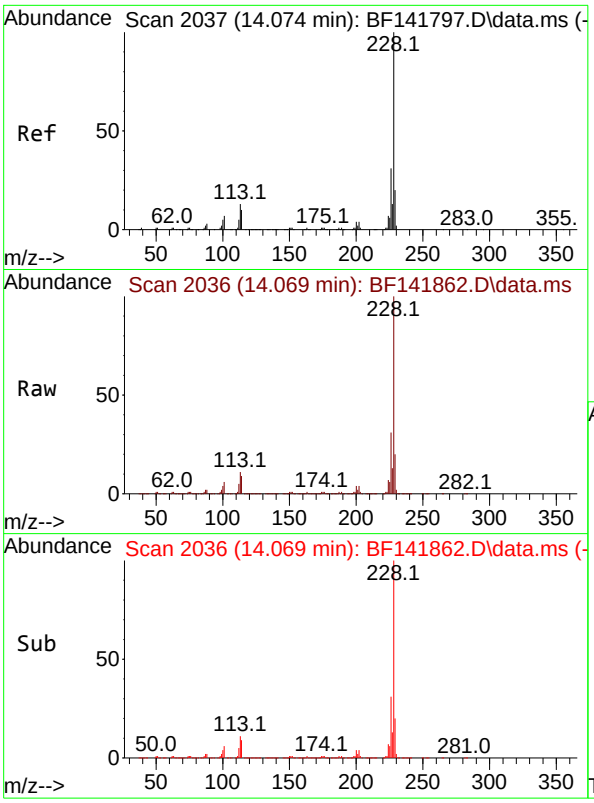


#82
3,3'-Dichlorobenzidine
Concen: 28.453 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:252 Resp: 287502

Ion	Ratio	Lower	Upper
252	100		
254	63.8	51.4	77.0
126	11.8	9.8	14.6

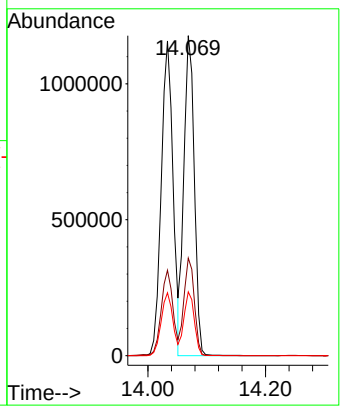




#83
Chrysene
Concen: 45.012 ng
RT: 14.069 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:228 Resp: 146130

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.6	37.0
229	20.0	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
PB166982BS

Manual Integrations
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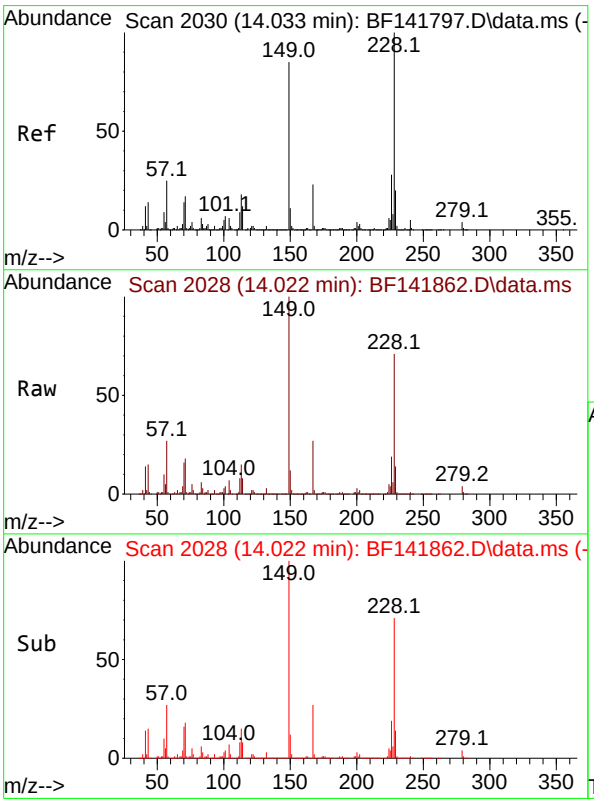
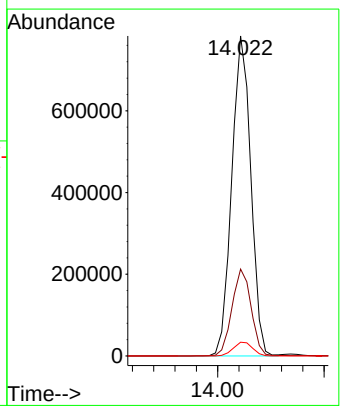
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

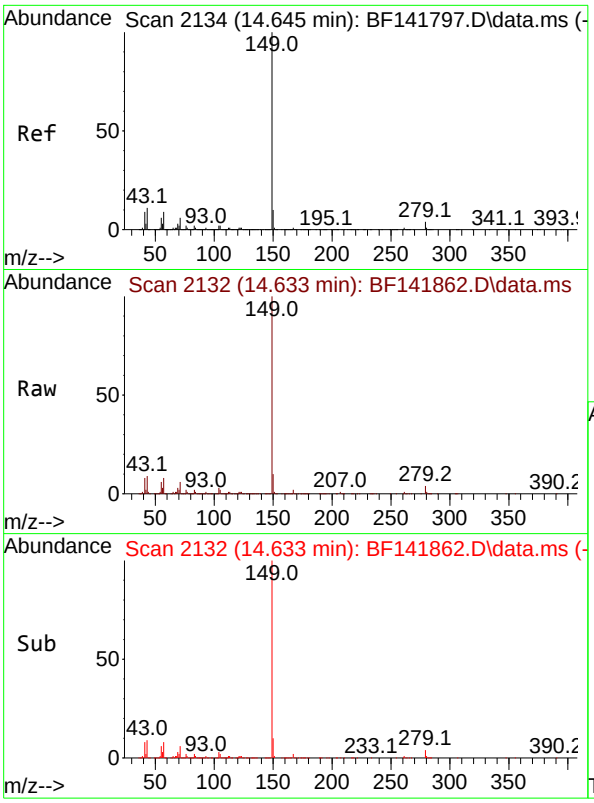


#84
Bis(2-ethylhexyl)phthalate
Concen: 46.591 ng
RT: 14.022 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:149 Resp: 973167

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.2	31.8
279	4.3	3.3	4.9





#85
Di-n-octyl phthalate
Concen: 45.149 ng
RT: 14.633 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:149 Resp: 141185

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	9.2	8.6	12.8

Instrument :
BNA_F
ClientSampleId :
PB166982BS

Manual Integrations
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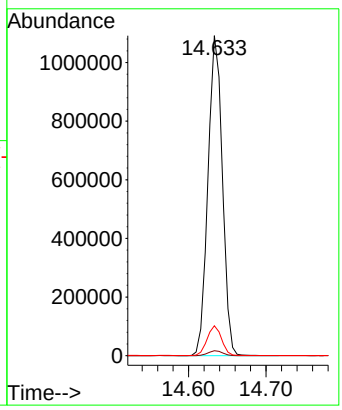
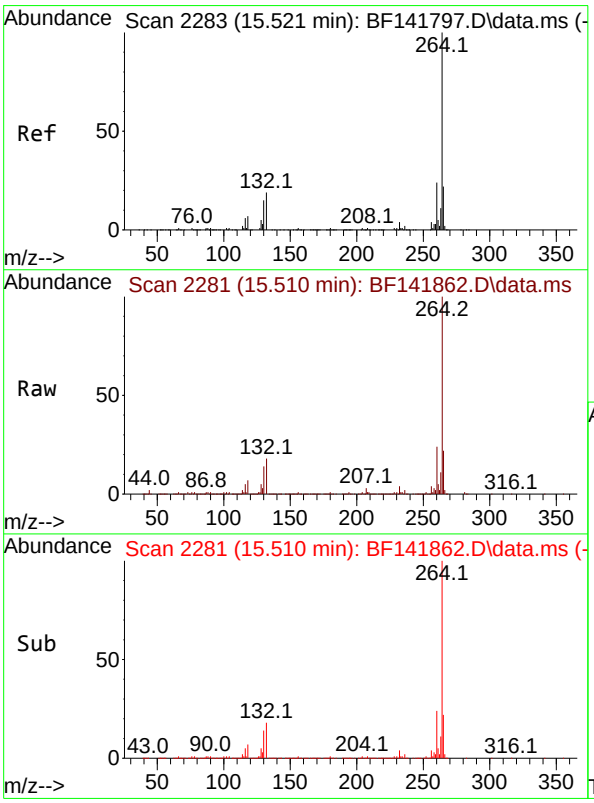
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

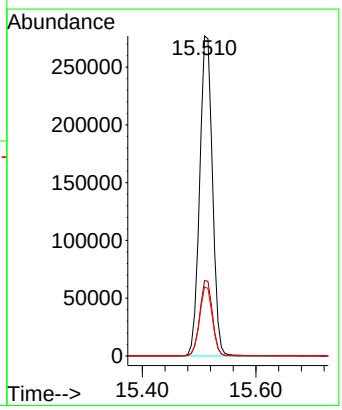


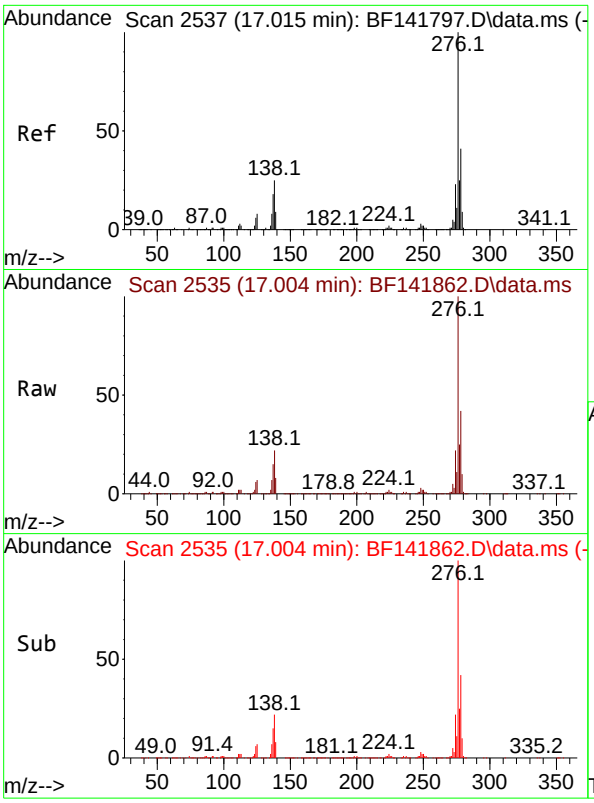


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:264 Resp: 432459

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.9	28.3
265	21.6	17.4	26.0

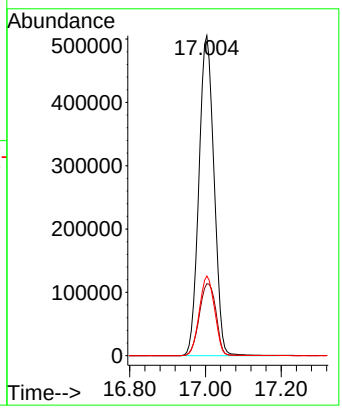




#87
Indeno(1,2,3-cd)pyrene
Concen: 50.858 ng
RT: 17.004 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:276 Resp: 140052

Ion	Ratio	Lower	Upper
276	100		
138	24.8	22.5	33.7
277	25.3	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
PB166982BS

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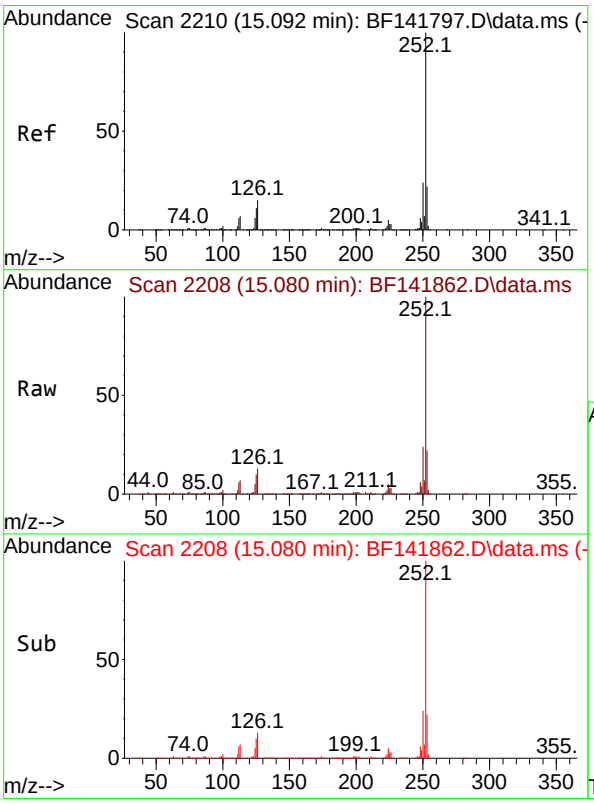
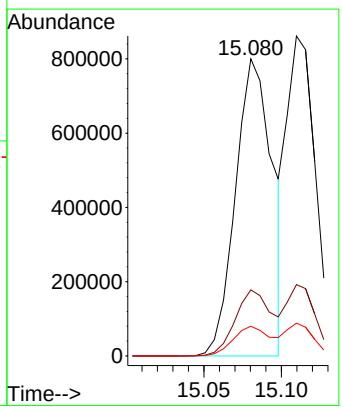
Supervised By :Jagrut Upadhyay 03/07/2025

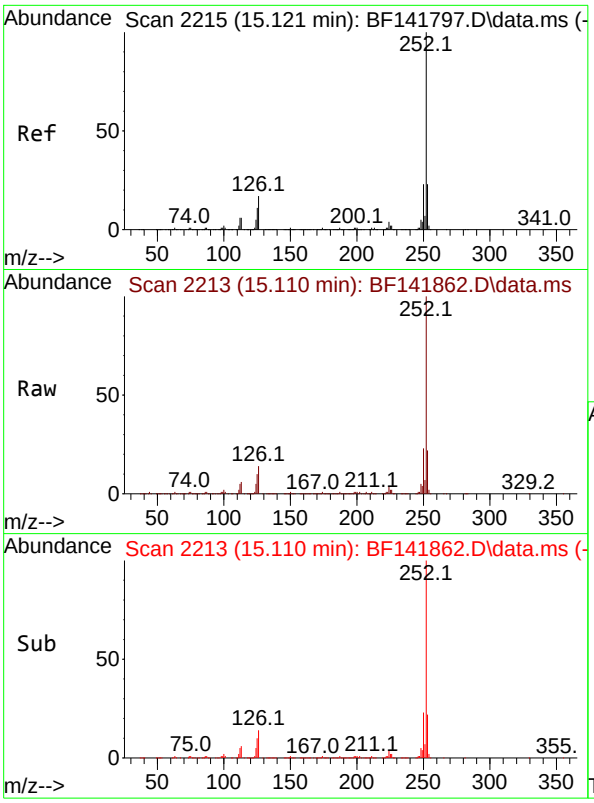


#88
Benzo(b)fluoranthene
Concen: 44.975 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.012 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:252 Resp: 1324873

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	10.0	8.6	13.0

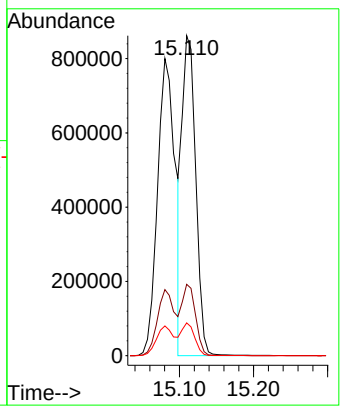




#89
Benzo(k)fluoranthene
Concen: 44.371 ng
RT: 15.110 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:252 Resp: 111097

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	10.3	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
PB166982BS

Manual Integrations
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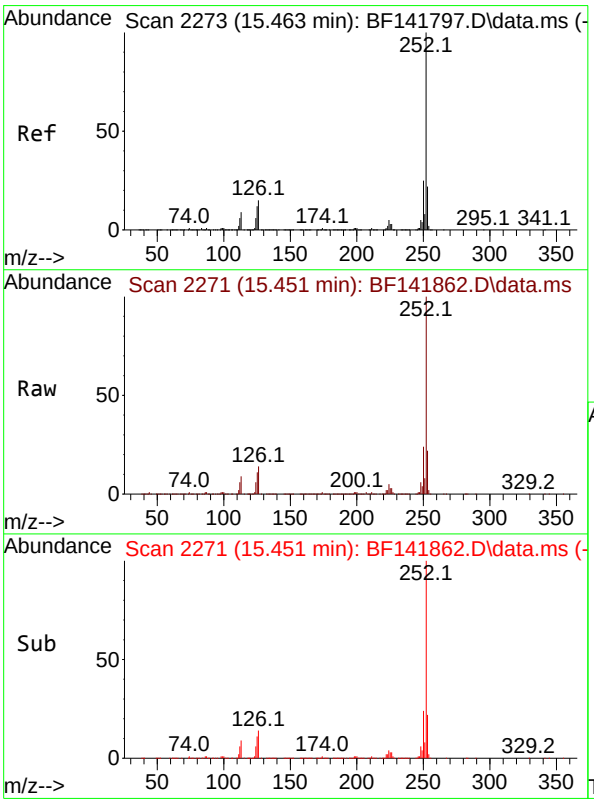
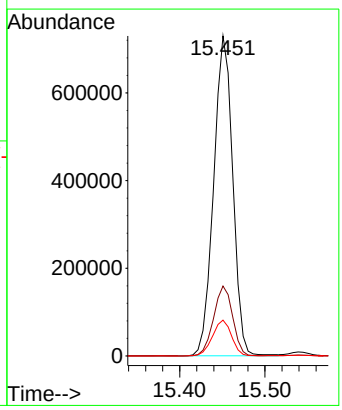
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

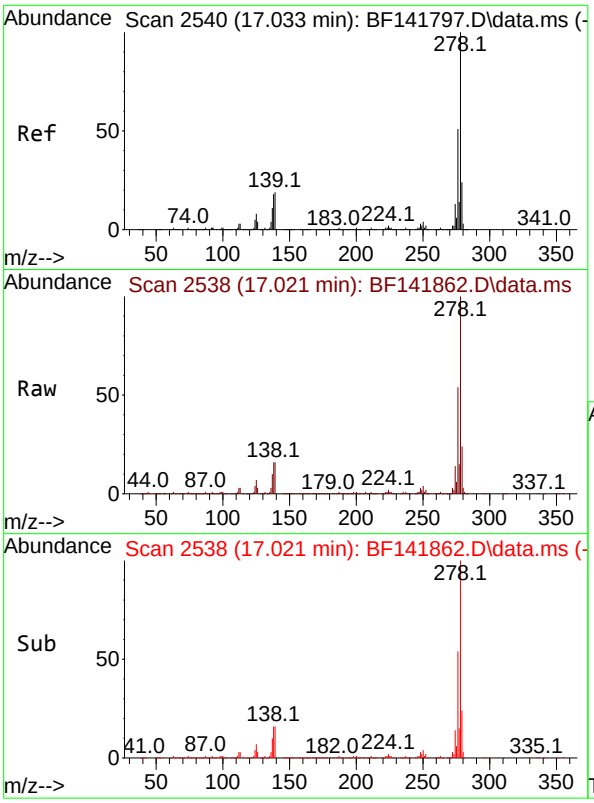


#90
Benzo(a)pyrene
Concen: 48.062 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:252 Resp: 1135461

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	11.2	9.4	14.2

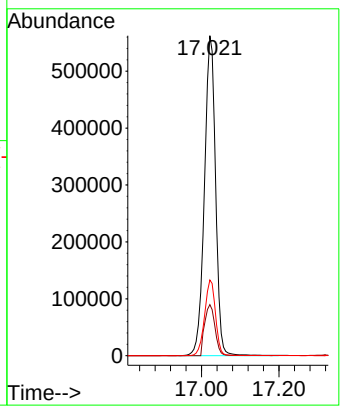




#91
Dibenzo(a,h)anthracene
Concen: 49.889 ng
RT: 17.021 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:278 Resp: 112140

Ion	Ratio	Lower	Upper
278	100		
139	16.0	14.9	22.3
279	23.7	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
PB166982BS

Manual Integrations
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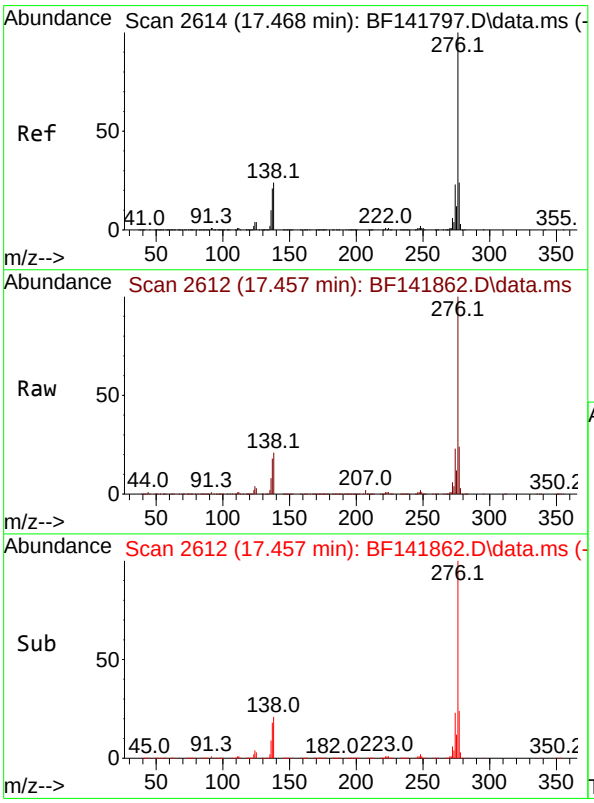
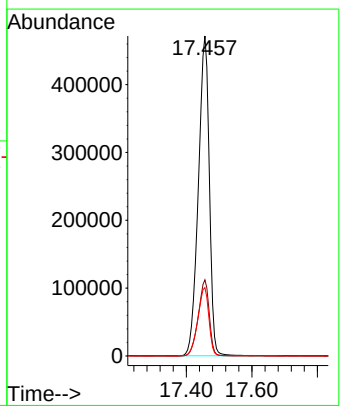
Supervised By :Jagrut Upadhyay 03/07/2025



#92
Benzo(g,h,i)perylene
Concen: 47.722 ng
RT: 17.457 min Scan# 2612
Delta R.T. -0.012 min
Lab File: BF141862.D
Acq: 06 Mar 2025 11:51

Tgt Ion:276 Resp: 1098929

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.4	29.0
138	21.3	19.3	28.9



Raw Data: **BF141860.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166984BS	SDG No.:	Q1488
Lab Sample ID:	PB166984BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141860.D	1	03/05/25 09:40	03/06/25 10:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	710		180	330	ug/Kg
108-95-2	Phenol	1300		82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1300		83.6	170	ug/Kg
95-57-8	2-Chlorophenol	1400		83.4	170	ug/Kg
95-48-7	2-Methylphenol	1300		80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1100		90.8	170	ug/Kg
98-86-2	Acetophenone	1500		86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	1300		79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1200		40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	1400		82.9	170	ug/Kg
98-95-3	Nitrobenzene	1500		90.7	170	ug/Kg
78-59-1	Isophorone	1400		84.5	170	ug/Kg
88-75-5	2-Nitrophenol	1600		94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1300		85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1400		75.4	170	ug/Kg
91-20-3	Naphthalene	1400		82.5	170	ug/Kg
106-47-8	4-Chloroaniline	400		82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	1400		83.2	170	ug/Kg
105-60-2	Caprolactam	1600		86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1400		77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1300		82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4900	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		71.3	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		73.9	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		83.2	170	ug/Kg
88-74-4	2-Nitroaniline	1600		94.9	170	ug/Kg
131-11-3	Dimethylphthalate	1400		81.6	170	ug/Kg

Raw Data: **BF141860.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166984BS	SDG No.:	Q1488
Lab Sample ID:	PB166984BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141860.D	1	03/05/25 09:40	03/06/25 10:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1500		86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.1	170	ug/Kg
99-09-2	3-Nitroaniline	850		89.1	170	ug/Kg
83-32-9	Acenaphthene	1600		81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3700	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3800	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1300		84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		86.1	170	ug/Kg
84-66-2	Diethylphthalate	1400		80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1400		85.5	170	ug/Kg
86-73-7	Fluorene	1400		85.4	170	ug/Kg
100-01-6	4-Nitroaniline	1800		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1900		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1400		81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1500		84.9	170	ug/Kg
1912-24-9	Atrazine	2000		91.3	170	ug/Kg
87-86-5	Pentachlorophenol	3000	E	77.2	330	ug/Kg
85-01-8	Phenanthrene	1400		83.9	170	ug/Kg
120-12-7	Anthracene	1400		84.3	170	ug/Kg
86-74-8	Carbazole	1400		80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1400		84.2	170	ug/Kg
206-44-0	Fluoranthene	1500		81.6	170	ug/Kg
129-00-0	Pyrene	1400		82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	1400		96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	720		98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	1400		80.6	170	ug/Kg
218-01-9	Chrysene	1400		79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1400		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1300		81.0	170	ug/Kg

Raw Data: **BF141860.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	PB166984BS			SDG No.:	Q1488
Lab Sample ID:	PB166984BS			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141860.D	1	03/05/25 09:40	03/06/25 10:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1300		82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	1500		92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1500		81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		86.7	170	ug/Kg
123-91-1	1,4-Dioxane	1200		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		74.6	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	122		30 (18) - 130 (112)	81%	SPK: 150
13127-88-3	Phenol-d6	116		30 (15) - 130 (107)	77%	SPK: 150
4165-60-0	Nitrobenzene-d5	105		30 (18) - 130 (107)	105%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.3		30 (20) - 130 (109)	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	166		30 (10) - 130 (116)	110%	SPK: 150
1718-51-0	Terphenyl-d14	94.9		30 (10) - 130 (105)	95%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	223000	6.887			
1146-65-2	Naphthalene-d8	860000	8.169			
15067-26-2	Acenaphthene-d10	467000	9.922			
1517-22-2	Phenanthrene-d10	802000	11.41			
1719-03-5	Chrysene-d12	537000	14.045			
1520-96-3	Perylene-d12	470000	15.515			

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\BF030625\
Data File : BF141860.D
Acq On : 06 Mar 2025 10:52
Operator : RC/JU
Sample : PB166984BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 06 15:49:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	222677	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	860348	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	467040	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	801941	20.000	ng	0.00
76) Chrysene-d12	14.045	240	537472	20.000	ng	0.00
86) Perylene-d12	15.515	264	470320	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1701069	121.997	ng	0.02
7) Phenol-d6	6.510	99	2108392	116.173	ng	0.00
23) Nitrobenzene-d5	7.445	82	1408232	104.625	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	725902	165.555	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	2659506	91.306	ng	0.00
79) Terphenyl-d14	12.992	244	3153921	94.941	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.763	88	226101	35.737	ng	97
3) Pyridine	3.522	79	549854	34.929	ng	96
4) n-Nitrosodimethylamine	3.469	42	285971	37.755	ng	99
6) Aniline	6.551	93	522189	27.676	ng	99
8) 2-Chlorophenol	6.669	128	628313	41.655	ng	96
9) Benzaldehyde	6.434	77	225786	21.388	ng	99
10) Phenol	6.522	94	741067	38.212	ng	97
11) bis(2-Chloroethyl)ether	6.622	93	565937	38.283	ng	96
12) 1,3-Dichlorobenzene	6.828	146	656353	40.633	ng	99
13) 1,4-Dichlorobenzene	6.904	146	663658	40.775	ng	99
14) 1,2-Dichlorobenzene	7.057	146	641692	42.221	ng	99
15) Benzyl Alcohol	7.022	79	556826	38.390	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.157	45	756011	33.675	ng	96
17) 2-Methylphenol	7.134	107	501492	40.279	ng	98
18) Hexachloroethane	7.398	117	250476	41.116	ng	96
19) n-Nitroso-di-n-propyla...	7.298	70	427099	35.799	ng	98
20) 3+4-Methylphenols	7.281	107	621360	40.079	ng	94
22) Acetophenone	7.292	105	924853	44.138	ng	99
24) Nitrobenzene	7.463	77	656445	45.544	ng	100
25) Isophorone	7.704	82	1189358	41.131	ng	99
26) 2-Nitrophenol	7.781	139	317830	49.233	ng	98
27) 2,4-Dimethylphenol	7.810	122	545219	51.293	ng	99
28) bis(2-Chloroethoxy)met...	7.910	93	709782	38.479	ng	99
29) 2,4-Dichlorophenol	8.016	162	509337	41.536	ng	100
30) 1,2,4-Trichlorobenzene	8.104	180	565708	42.101	ng	99
31) Naphthalene	8.187	128	1798156	40.665	ng	99
32) Benzoic acid	7.928	122	436083	48.969	ng	98
33) 4-Chloroaniline	8.228	127	196072	12.093	ng	98
34) Hexachlorobutadiene	8.304	225	363439	43.526	ng	99
35) Caprolactam	8.598	113	181228m	48.041	ng	
36) 4-Chloro-3-methylphenol	8.710	107	555267	40.762	ng	97
37) 2-Methylnaphthalene	8.881	142	1136178	39.174	ng	100
38) 1-Methylnaphthalene	8.981	142	1106172	39.748	ng	99
40) 1,2,4,5-Tetrachloroben...	9.045	216	621149	46.050	ng	99
41) Hexachlorocyclopentadiene	9.034	237	830196	147.481	ng	100
43) 2,4,6-Trichlorophenol	9.151	196	381567	43.792	ng	99

Sample Results: **BF141860.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141860.D
Acq On : 06 Mar 2025 10:52
Operator : RC/JU
Sample : PB166984BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 06 15:49:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	393469	45.604	ng		98
46) 1,1'-Biphenyl	9.345	154	1611215	45.323	ng		98
47) 2-Chloronaphthalene	9.369	162	1098889	41.882	ng		99
48) 2-Nitroaniline	9.457	65	341789	47.626	ng		97
49) Acenaphthylene	9.786	152	1713470	43.557	ng		99
50) Dimethylphthalate	9.645	163	1313815	42.006	ng		99
51) 2,6-Dinitrotoluene	9.704	165	288768	48.247	ng		92
52) Acenaphthene	9.957	154	1266215	47.702	ng		99
53) 3-Nitroaniline	9.869	138	153204	25.520	ng	#	95
54) 2,4-Dinitrophenol	9.975	184	346122	111.084	ng	#	1
55) Dibenzofuran	10.128	168	1544243	39.970	ng		99
56) 4-Nitrophenol	10.028	139	525883	113.842	ng		95
57) 2,4-Dinitrotoluene	10.104	165	401637	54.446	ng		95
58) Fluorene	10.469	166	1226351	42.376	ng		98
59) 2,3,4,6-Tetrachlorophenol	10.239	232	338195	45.070	ng		98
60) Diethylphthalate	10.345	149	1281425	40.869	ng		100
61) 4-Chlorophenyl-phenyle...	10.463	204	612702	42.256	ng		99
62) 4-Nitroaniline	10.486	138	293220	54.897	ng		97
63) Azobenzene	10.622	77	1253041	37.955	ng		99
65) 4,6-Dinitro-2-methylph...	10.510	198	220801	56.697	ng		93
66) n-Nitrosodiphenylamine	10.581	169	1071992	40.709	ng		100
67) 4-Bromophenyl-phenylether	10.951	248	391710	41.818	ng		98
68) Hexachlorobenzene	11.016	284	432837	43.759	ng		99
69) Atrazine	11.104	200	433249	59.829	ng		100
70) Pentachlorophenol	11.210	266	574113	91.516	ng		100
71) Phenanthrene	11.433	178	1812700	42.258	ng		100
72) Anthracene	11.486	178	1854922	43.146	ng		99
73) Carbazole	11.633	167	1634694	43.058	ng		100
74) Di-n-butylphthalate	11.969	149	1951706	40.557	ng		100
75) Fluoranthene	12.616	202	1922924	43.749	ng		98
77) Benzidine	12.733	184	493167	72.902	ng		100
78) Pyrene	12.845	202	1941461	41.714	ng		100
80) Butylbenzylphthalate	13.463	149	730230	43.184	ng		99
81) Benzo(a)anthracene	14.033	228	1506856	42.445	ng		100
82) 3,3'-Dichlorobenzidine	13.992	252	219648	21.565	ng		99
83) Chrysene	14.069	228	1403466	42.886	ng		99
84) Bis(2-ethylhexyl)phtha...	14.021	149	932426	44.285	ng		100
85) Di-n-octyl phthalate	14.633	149	1360035	43.146	ng		97
87) Indeno(1,2,3-cd)pyrene	17.004	276	1416313	47.292	ng		97
88) Benzo(b)fluoranthene	15.080	252	1297204	40.491	ng		99
89) Benzo(k)fluoranthene	15.110	252	1099133	40.365	ng		99
90) Benzo(a)pyrene	15.451	252	1136844	44.247	ng		99
91) Dibenzo(a,h)anthracene	17.027	278	1137230	46.521	ng		97
92) Benzo(g,h,i)perylene	17.457	276	1105086	44.126	ng		97

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

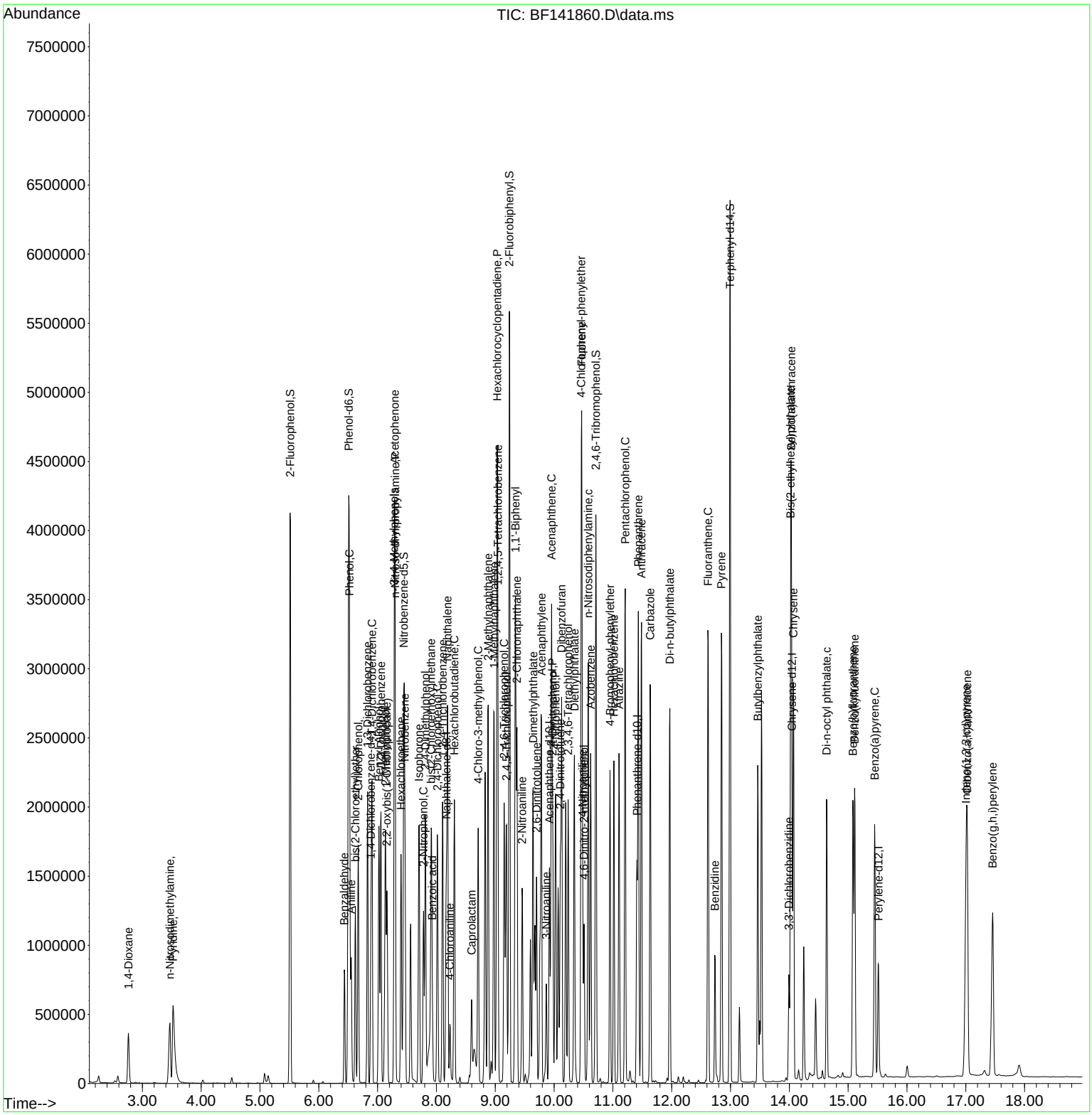
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141860.D
Acq On : 06 Mar 2025 10:52
Operator : RC/JU
Sample : PB166984BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

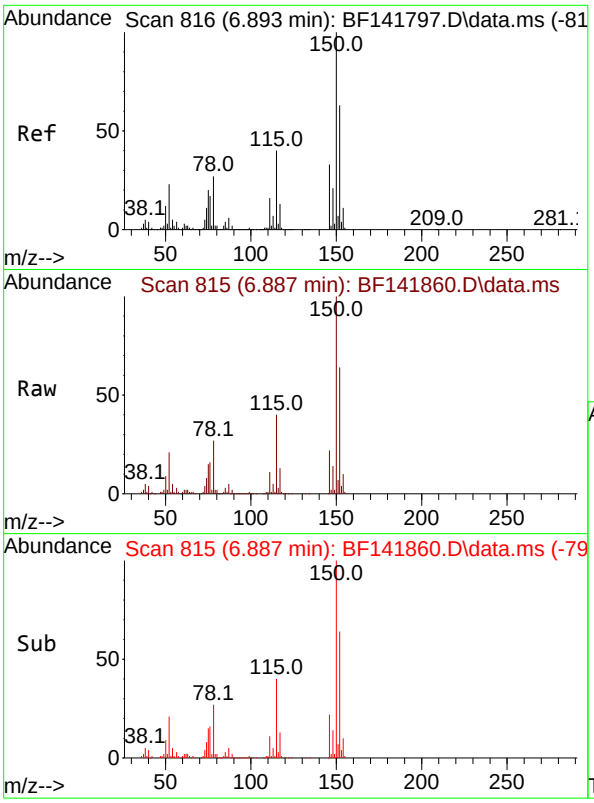
Quant Time: Mar 06 15:49:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

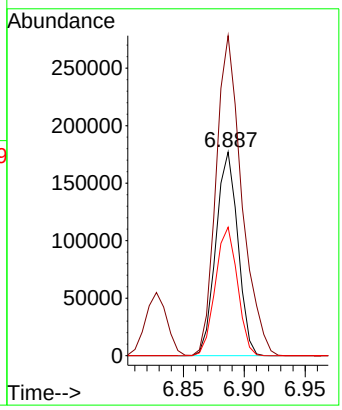




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:152 Resp: 22267

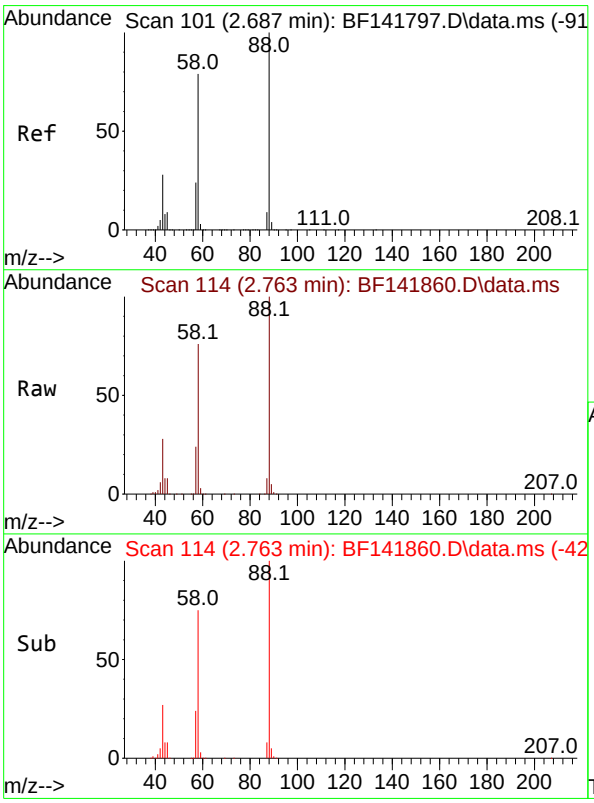
Ion	Ratio	Lower	Upper
152	100		
150	157.1	127.5	191.3
115	63.1	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

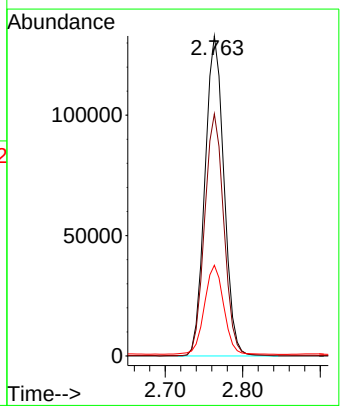
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

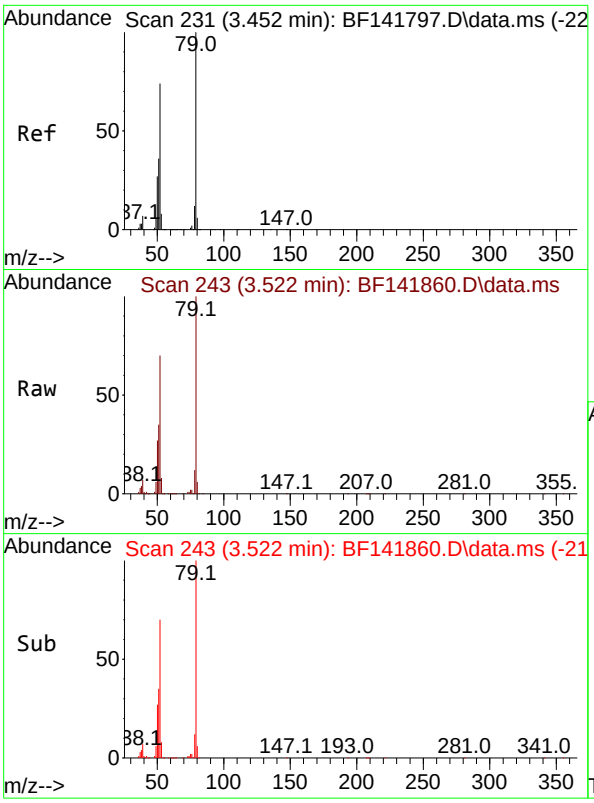


#2
1,4-Dioxane
Concen: 35.737 ng
RT: 2.763 min Scan# 114
Delta R.T. 0.076 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 88 Resp: 226101

Ion	Ratio	Lower	Upper
88	100		
58	76.9	63.9	95.9
43	28.3	23.0	34.6

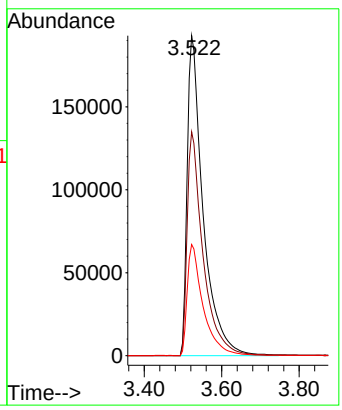




#3
Pyridine
Concen: 34.929 ng
RT: 3.522 min Scan# 24
Delta R.T. 0.070 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 79 Resp: 549854

Ion	Ratio	Lower	Upper
79	100		
52	69.9	59.0	88.4
51	34.8	29.0	43.4



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/07/2025
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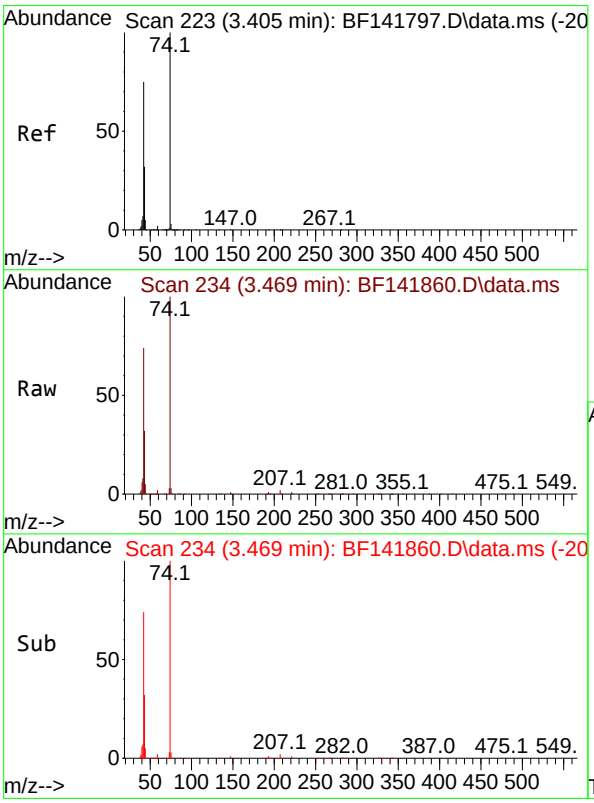
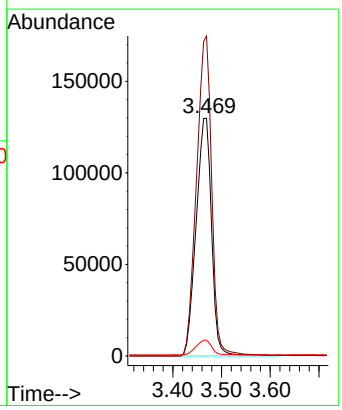
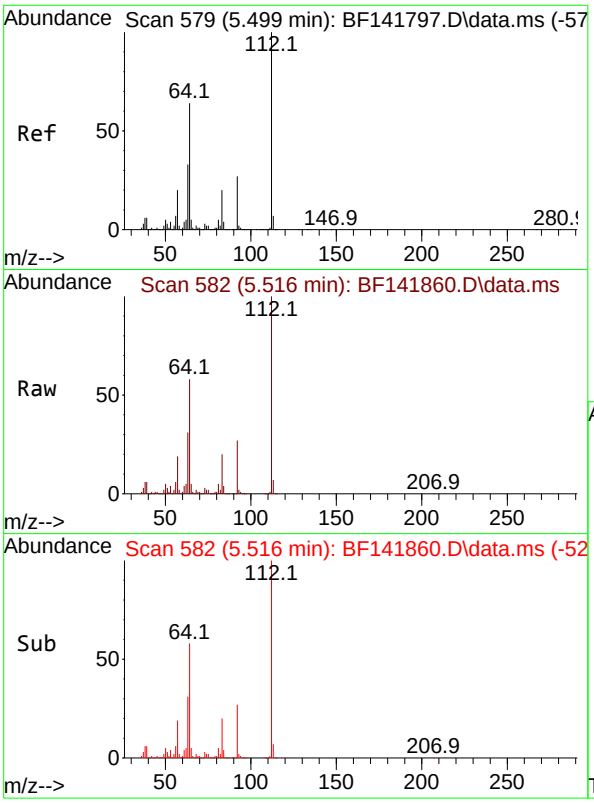


#4
n-Nitrosodimethylamine
Concen: 37.755 ng
RT: 3.469 min Scan# 234
Delta R.T. 0.065 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 42 Resp: 285971

Ion	Ratio	Lower	Upper
42	100		
74	134.6	107.1	160.7
44	6.7	6.6	9.8





#5
2-Fluorophenol
Concen: 121.997 ng
RT: 5.516 min Scan# 5
Delta R.T. 0.018 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

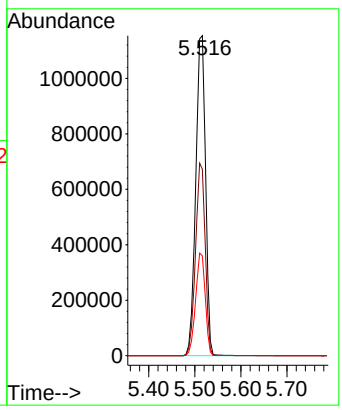
Instrument :
BNA_F
ClientSampleId :
PB166984BS

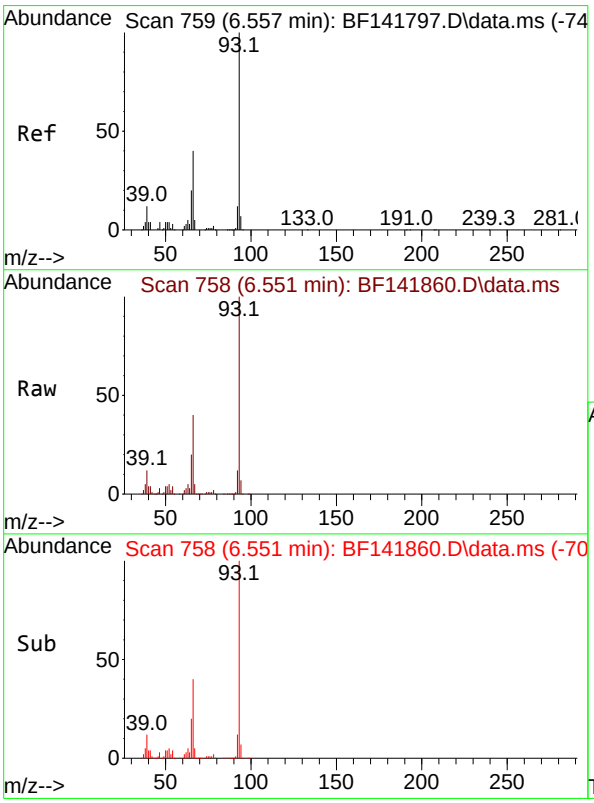
Tgt Ion:112 Resp: 170106

Ion	Ratio	Lower	Upper
112	100		
64	58.3	51.3	76.9
63	31.2	26.2	39.4

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

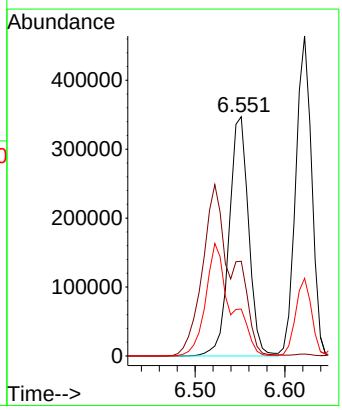


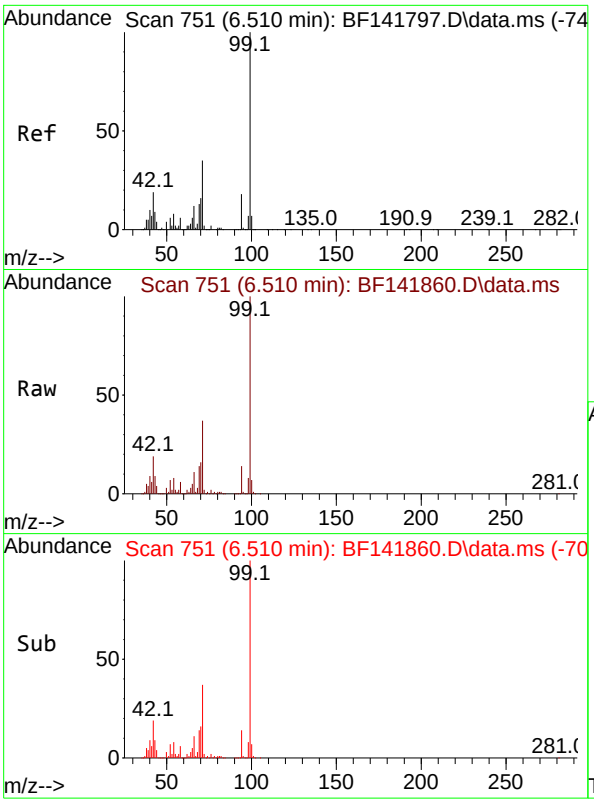


#6
Aniline
Concen: 27.676 ng
RT: 6.551 min Scan# 758
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 93 Resp: 522189

Ion	Ratio	Lower	Upper
93	100		
66	39.6	32.3	48.5
65	19.6	15.9	23.9

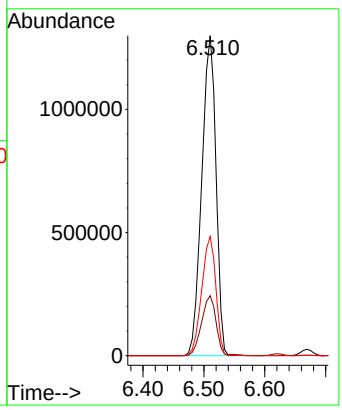




#7
Phenol-d6
Concen: 116.173 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 99 Resp: 210839

Ion	Ratio	Lower	Upper
99	100		
42	18.8	15.2	22.8
71	37.3	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
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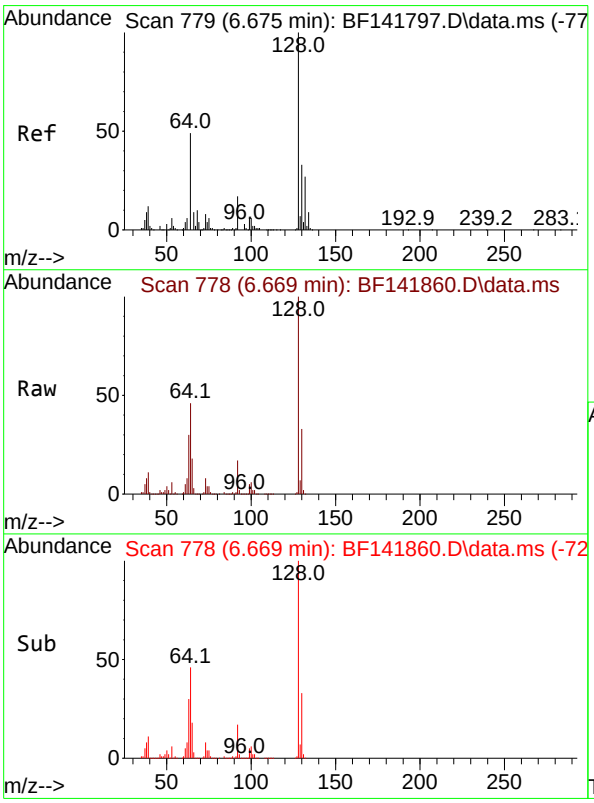
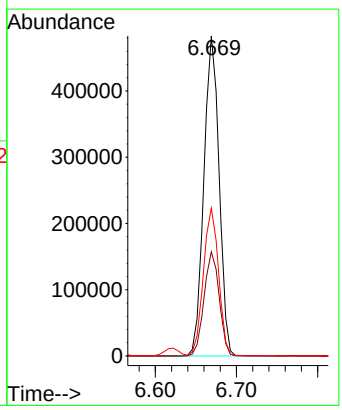
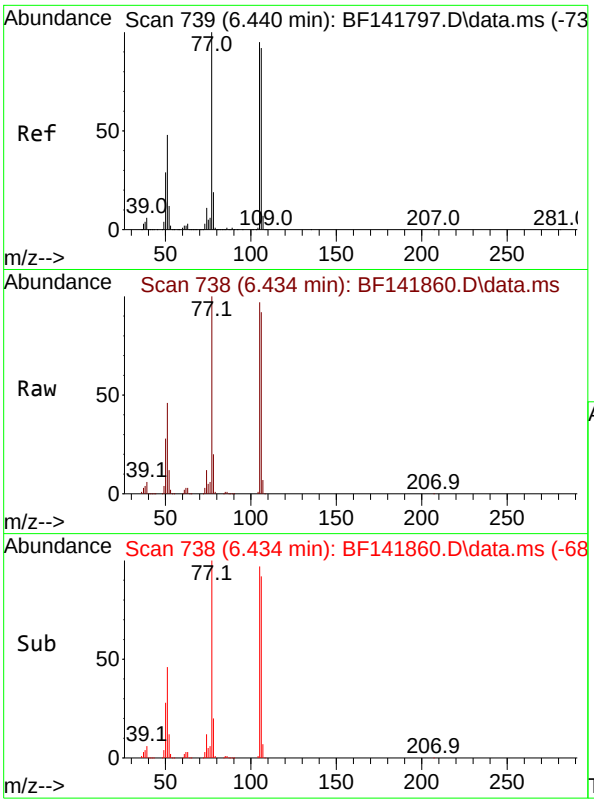


#8
2-Chlorophenol
Concen: 41.655 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:128 Resp: 628313

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.6	52.6
64	46.2	31.1	71.1

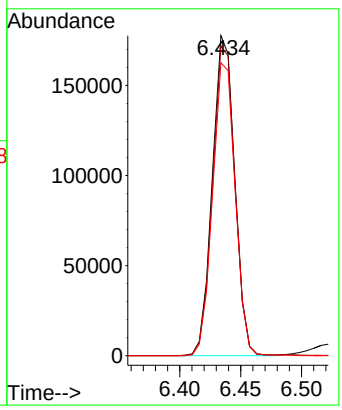




#9
Benzaldehyde
Concen: 21.388 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 77 Resp: 22578

Ion	Ratio	Lower	Upper
77	100		
105	96.8	75.3	115.3
106	91.5	72.3	112.3



Instrument :
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ClientSampleId :
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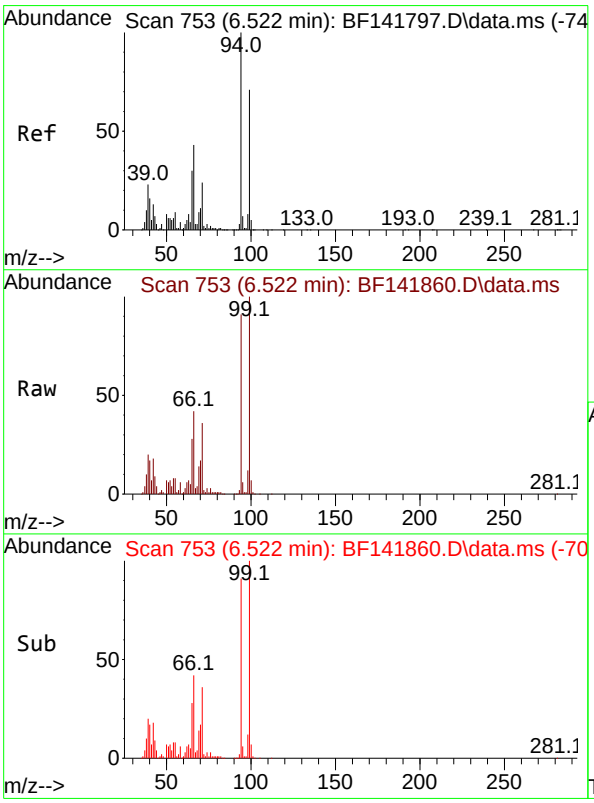
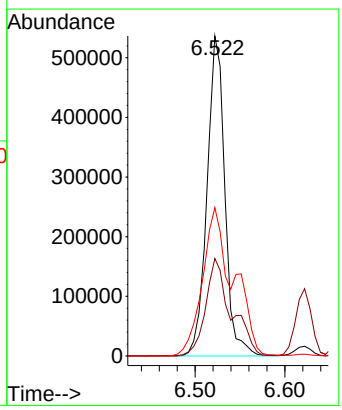
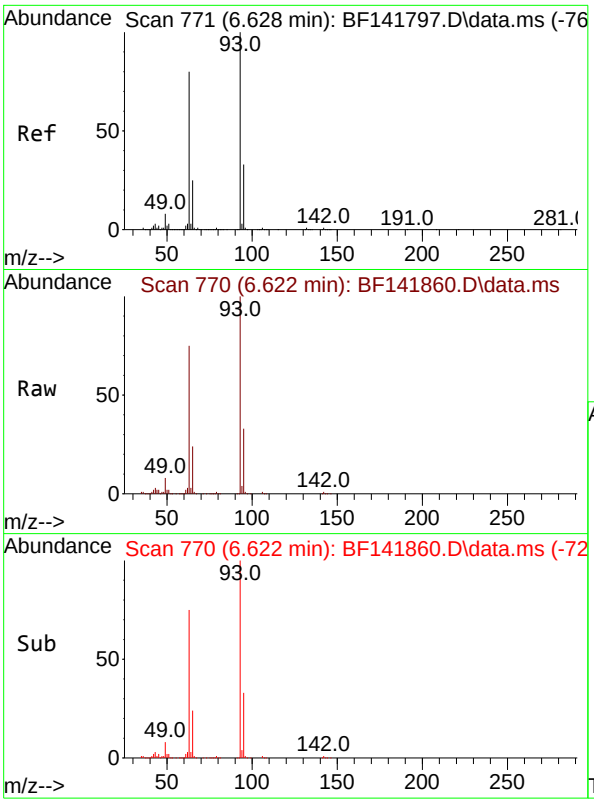


#10
Phenol
Concen: 38.212 ng
RT: 6.522 min Scan# 753
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 94 Resp: 741067

Ion	Ratio	Lower	Upper
94	100		
65	30.4	10.2	50.2
66	46.3	23.2	63.2

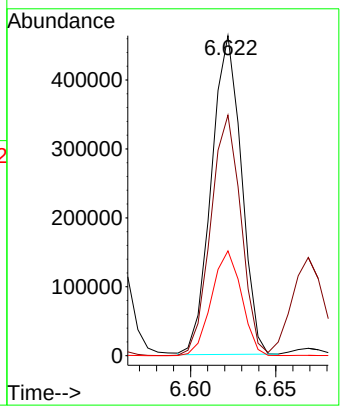




#11
bis(2-Chloroethyl)ether
Concen: 38.283 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 93 Resp: 56593

Ion	Ratio	Lower	Upper
93	100		
63	75.1	59.3	99.3
95	32.7	13.2	53.2



Instrument :
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ClientSampleId :
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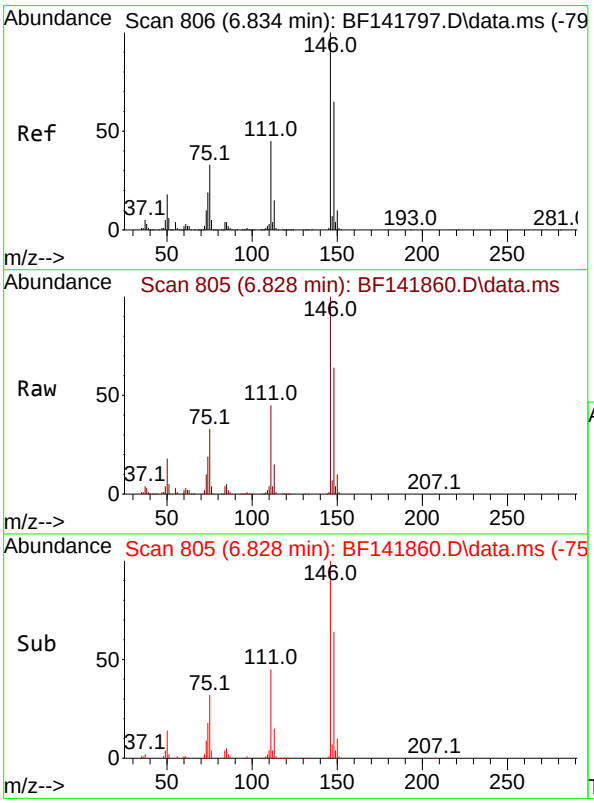
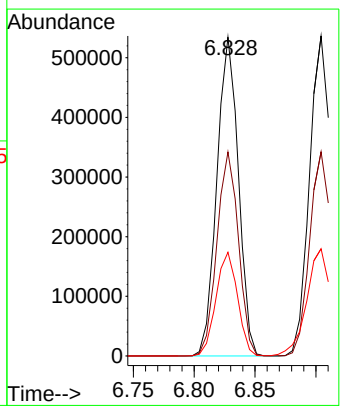
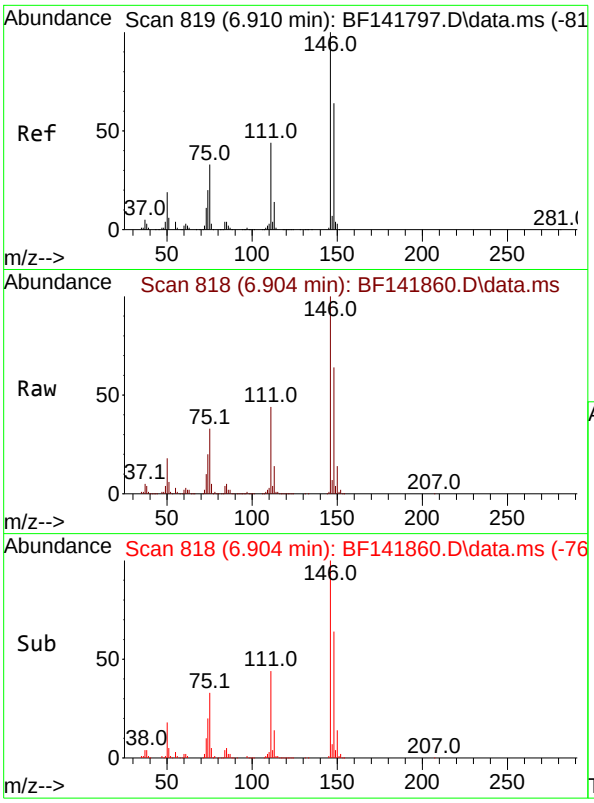


#12
1,3-Dichlorobenzene
Concen: 40.633 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:146 Resp: 656353

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.8	77.6
75	32.5	26.2	39.4

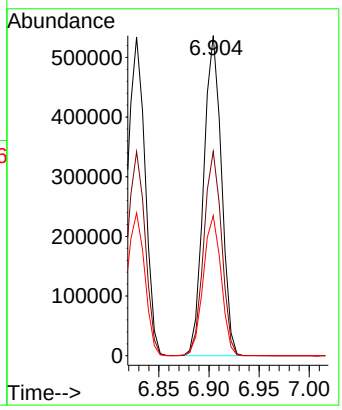




#13
1,4-Dichlorobenzene
Concen: 40.775 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:146 Resp: 66365

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.4	77.2
111	43.8	35.5	53.3



Instrument :
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ClientSampleId :
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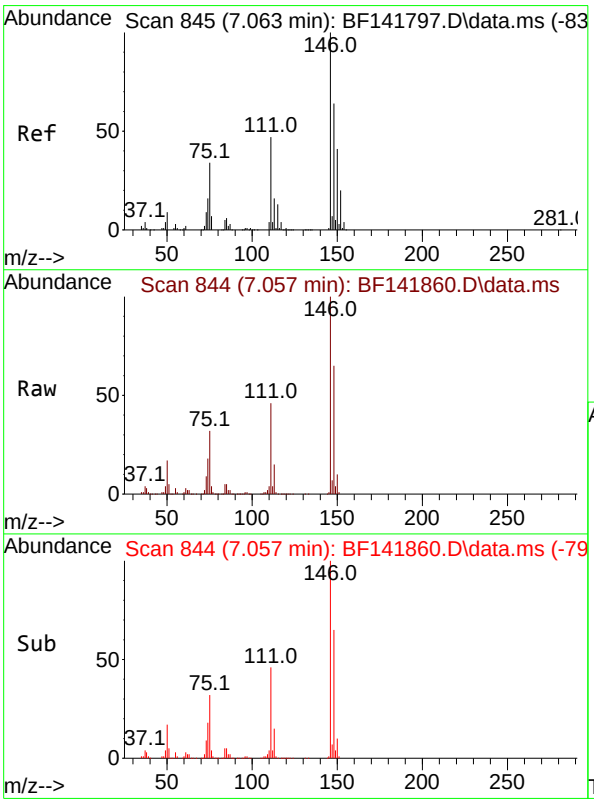
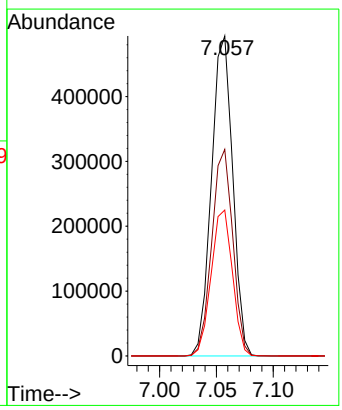
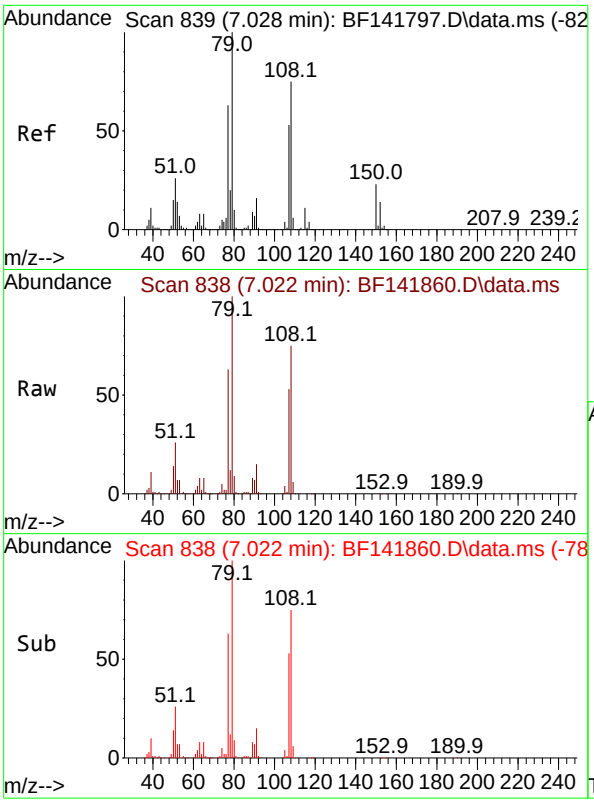


#14
1,2-Dichlorobenzene
Concen: 42.221 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:146 Resp: 641692

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.2	76.8
111	45.6	37.8	56.6

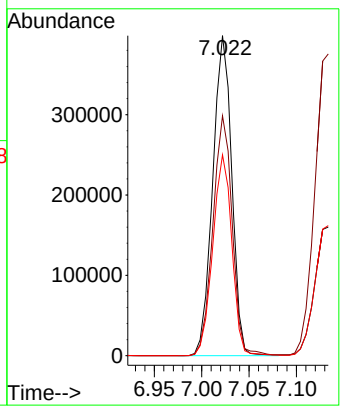




#15
Benzyl Alcohol
Concen: 38.390 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 79 Resp: 55682

Ion	Ratio	Lower	Upper
79	100		
108	75.0	60.2	90.2
77	62.7	50.2	75.2



Instrument :
BNA_F
ClientSampleId :
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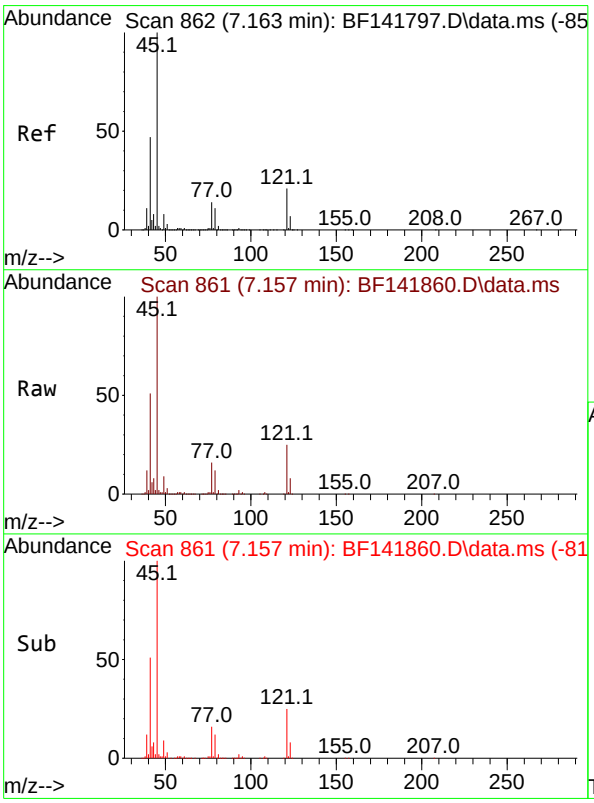
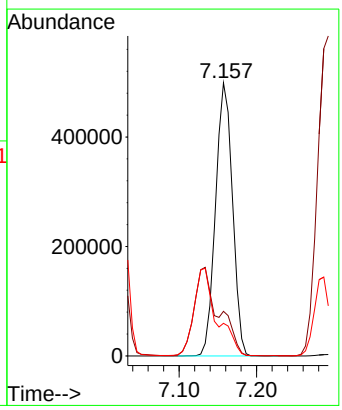
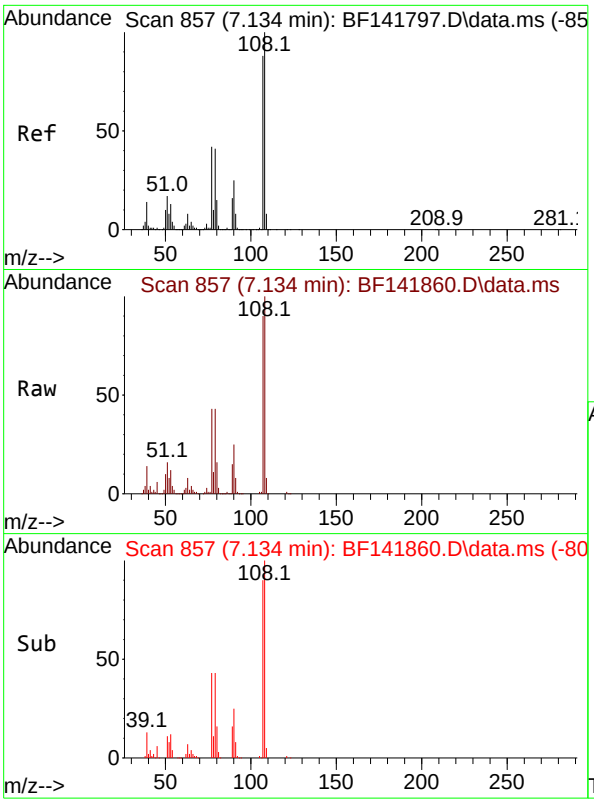


#16
2,2'-oxybis(1-Chloropropane)
Concen: 33.675 ng
RT: 7.157 min Scan# 861
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 45 Resp: 756011

Ion	Ratio	Lower	Upper
45	100		
77	16.3	0.0	34.4
79	12.0	0.0	30.9

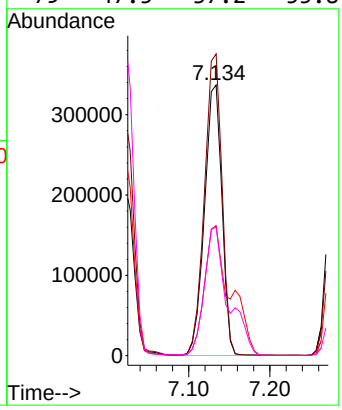




#17
2-Methylphenol
Concen: 40.279 ng
RT: 7.134 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:107 Resp: 50149

Ion	Ratio	Lower	Upper
107	100		
108	111.5	90.6	135.8
77	48.1	37.7	56.5
79	47.5	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
PB166984BS

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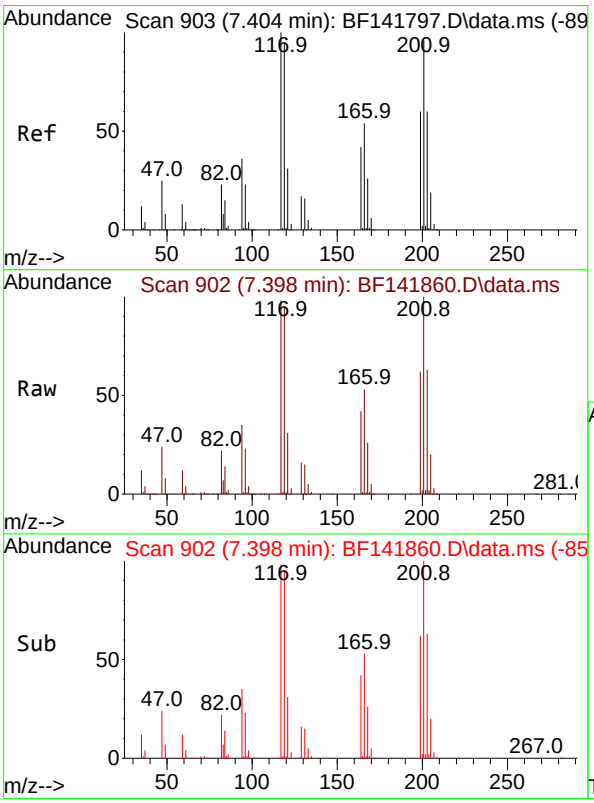
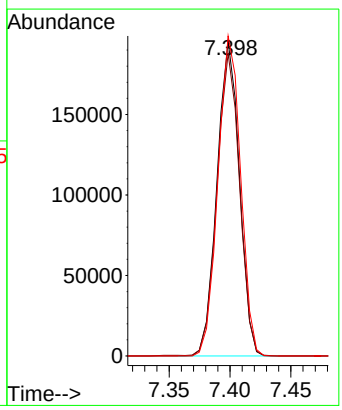
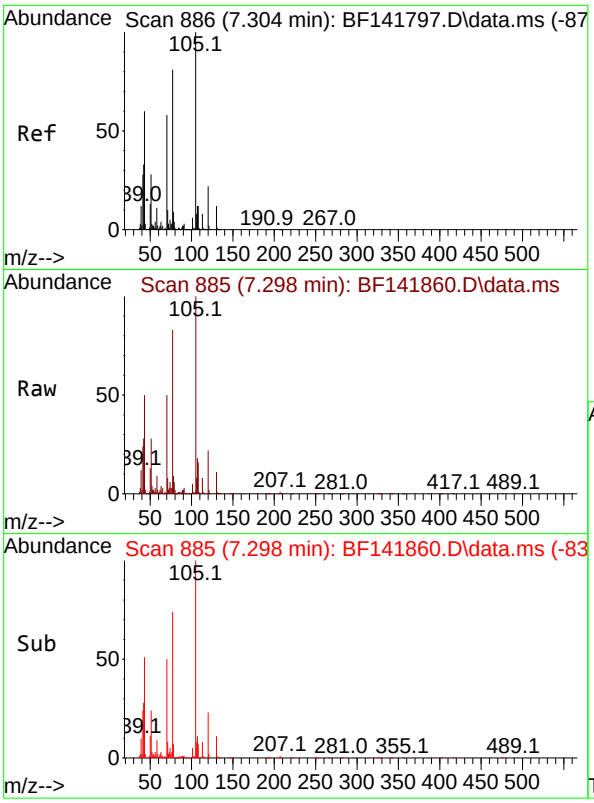


#18
Hexachloroethane
Concen: 41.116 ng
RT: 7.398 min Scan# 902
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:117 Resp: 250476

Ion	Ratio	Lower	Upper
117	100		
119	96.1	75.8	113.8
201	101.7	76.7	115.1

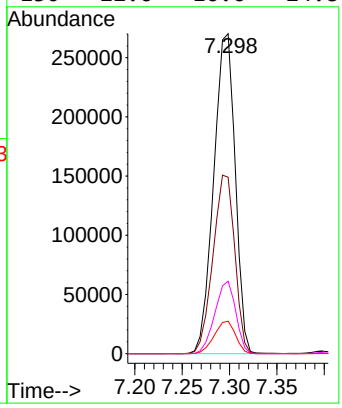




#19
n-Nitroso-di-n-propylamine
Concen: 35.799 ng
RT: 7.298 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 70 Resp: 42709

Ion	Ratio	Lower	Upper
70	100		
42	55.2	45.4	68.0
101	10.1	7.8	11.8
130	22.6	16.6	24.8



Instrument :
BNA_F
ClientSampleId :
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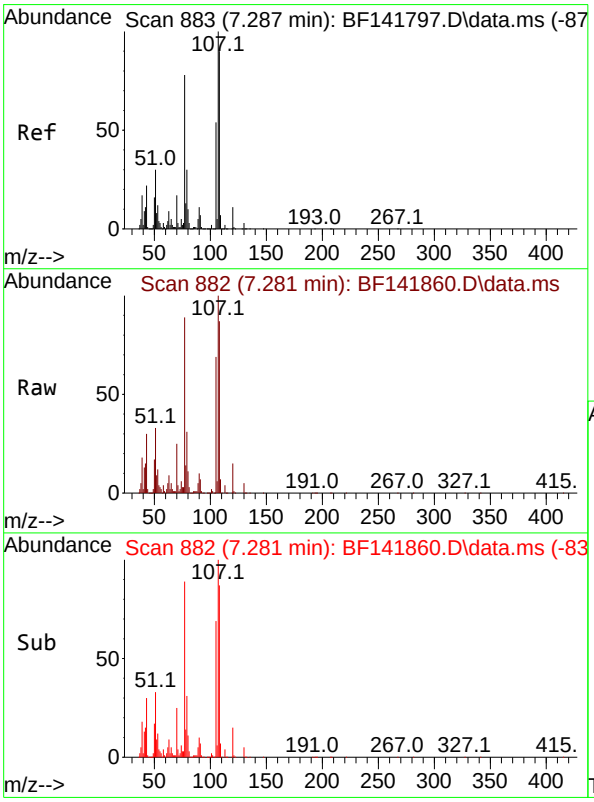
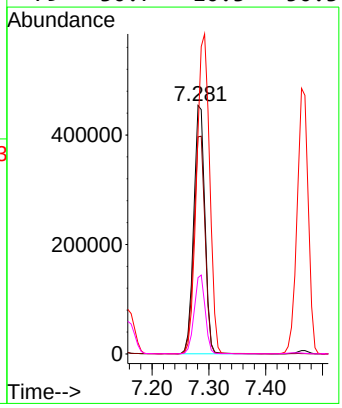
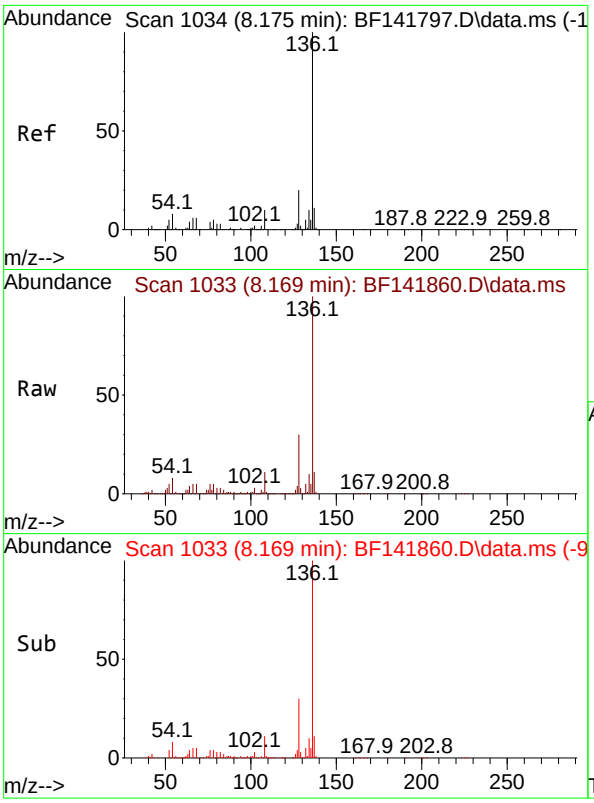


#20
3+4-Methylphenols
Concen: 40.079 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:107 Resp: 621360

Ion	Ratio	Lower	Upper
107	100		
108	87.4	69.7	109.7
77	89.3	58.3	98.3
79	30.7	10.3	50.3

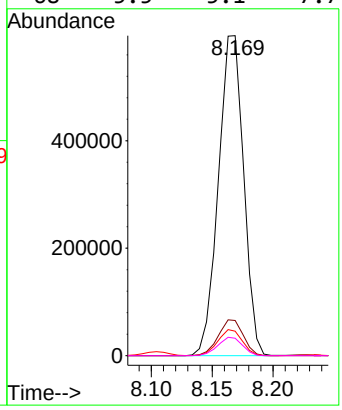




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:136 Resp: 86034

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	7.6	6.9	10.3
68	5.5	5.1	7.7



Instrument :
BNA_F
ClientSampleId :
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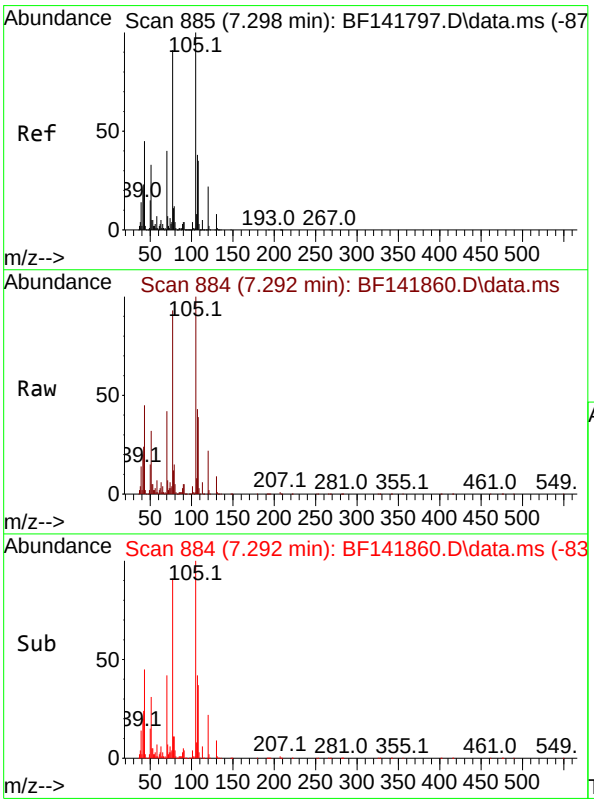
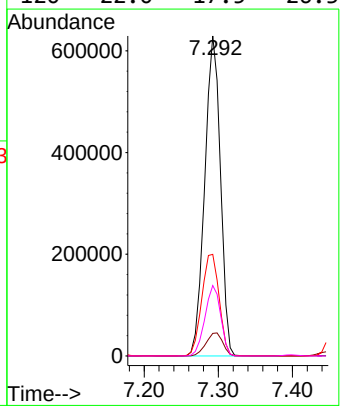
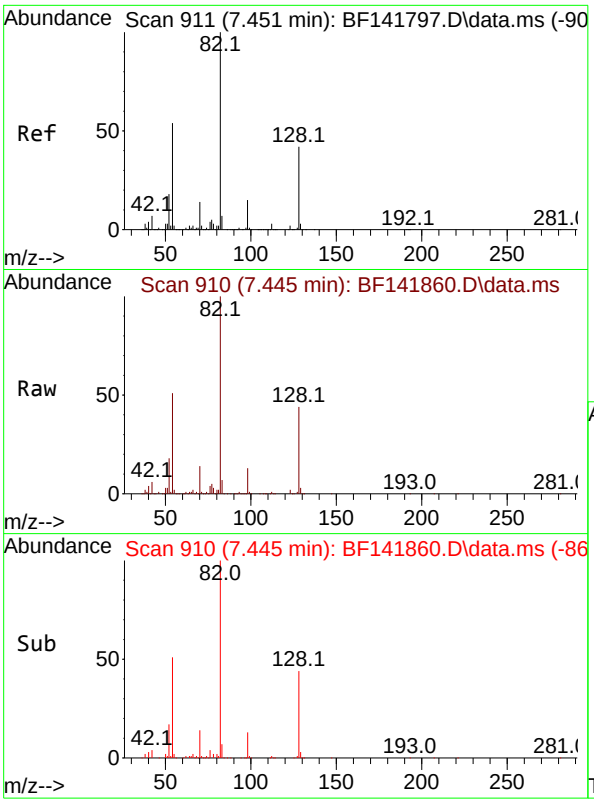


#22
Acetophenone
Concen: 44.138 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:105 Resp: 924853

Ion	Ratio	Lower	Upper
105	100		
71	7.0	5.4	8.0
51	31.7	26.1	39.1
120	22.0	17.5	26.3





#23
Nitrobenzene-d5
Concen: 104.625 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 82 Resp: 140823

Ion	Ratio	Lower	Upper
82	100		
128	44.3	33.5	50.3
54	51.1	42.7	64.1

Instrument :
BNA_F
ClientSampleId :
PB166984BS

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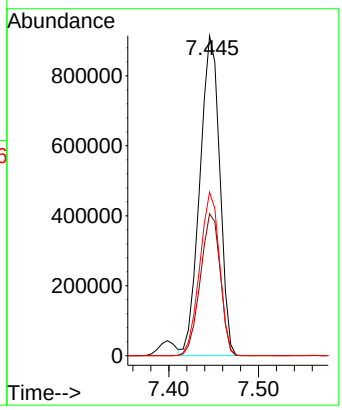
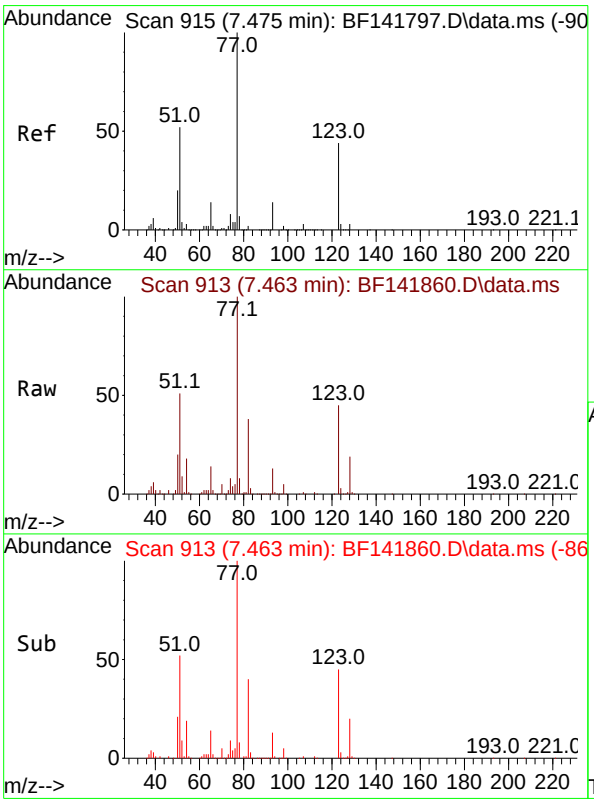
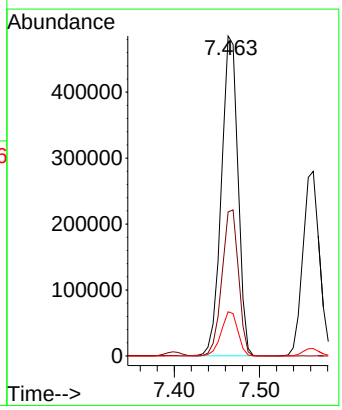


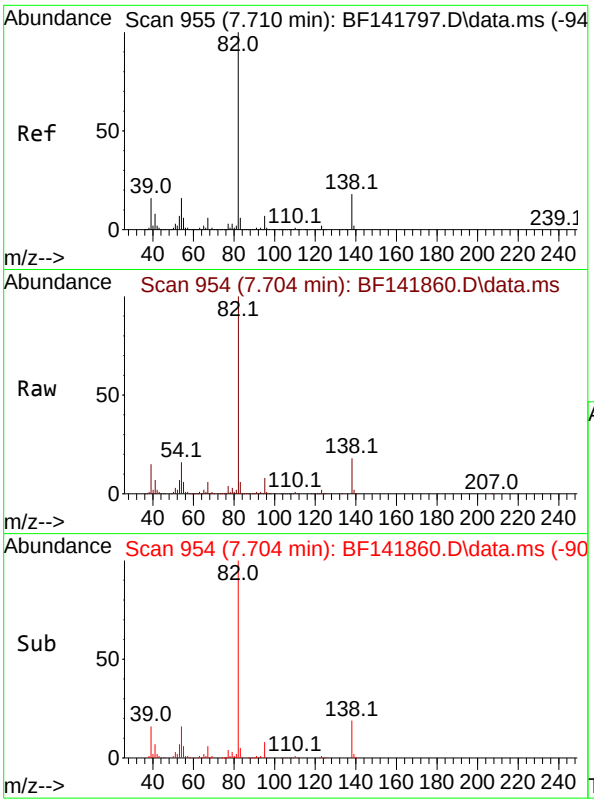


#24
Nitrobenzene
Concen: 45.544 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 77 Resp: 656445

Ion	Ratio	Lower	Upper
77	100		
123	45.0	35.8	53.8
65	13.8	11.2	16.8

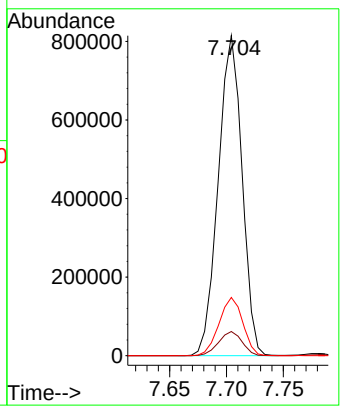




#25
Isophorone
Concen: 41.131 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 82 Resp: 118935

Ion	Ratio	Lower	Upper
82	100		
95	7.6	5.8	8.8
138	18.2	14.0	21.0



Instrument :
BNA_F
ClientSampleId :
PB166984BS

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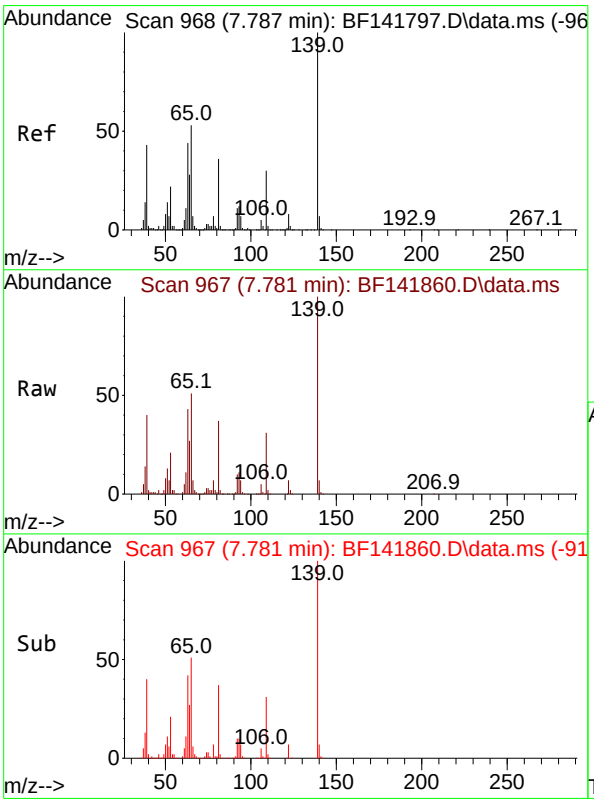
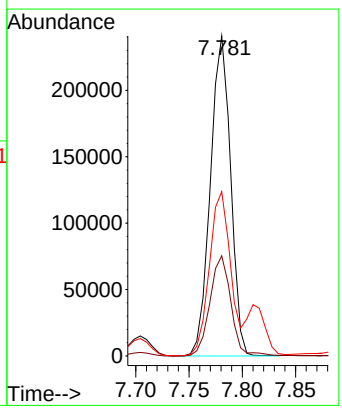
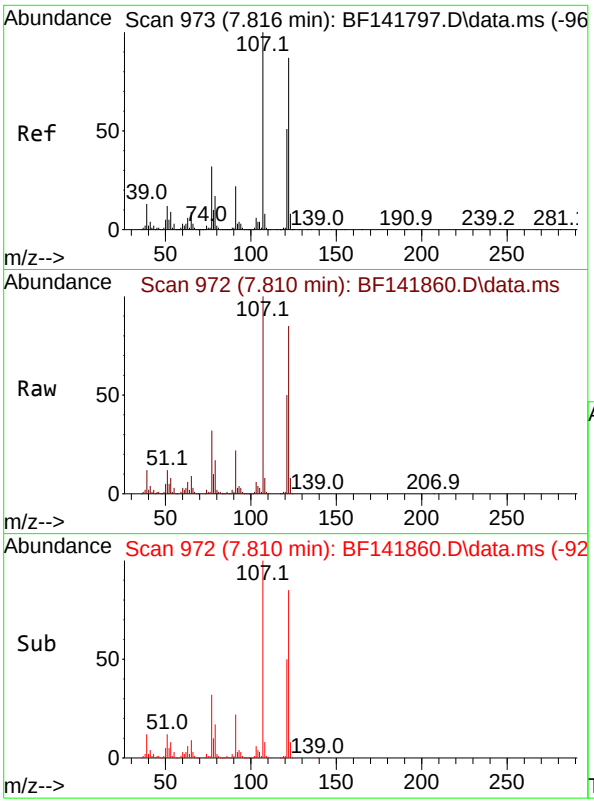


#26
2-Nitrophenol
Concen: 49.233 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:139 Resp: 317830

Ion	Ratio	Lower	Upper
139	100		
109	31.3	24.1	36.1
65	51.4	42.3	63.5

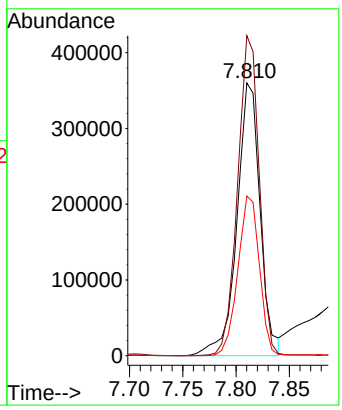




#27
2,4-Dimethylphenol
Concen: 51.293 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:122 Resp: 54521

Ion	Ratio	Lower	Upper
122	100		
107	117.3	92.5	138.7
121	58.5	47.1	70.7



Instrument :
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ClientSampleId :
PB166984BS

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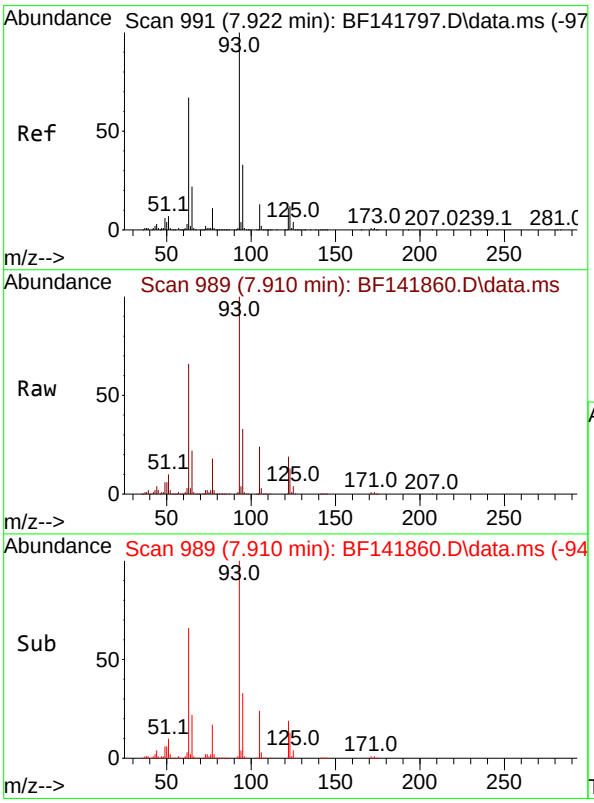
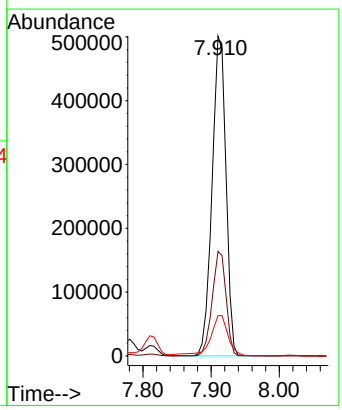
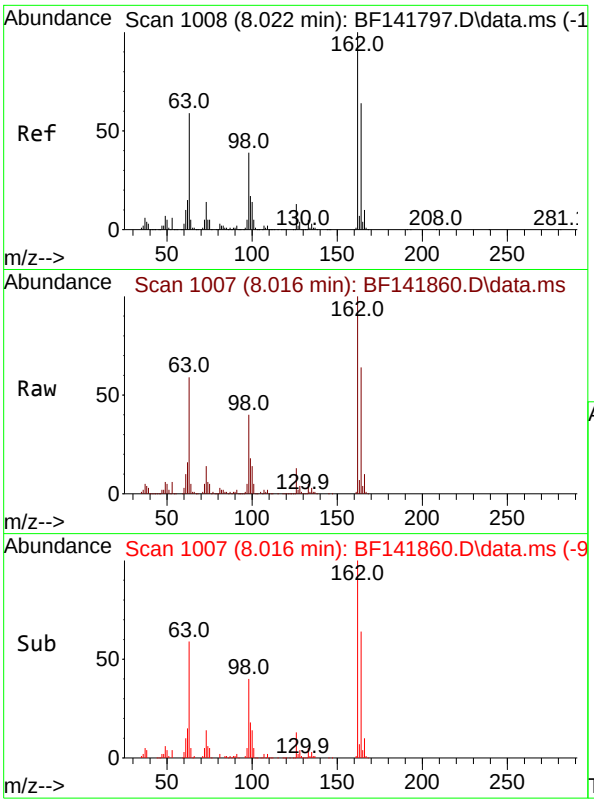


#28
bis(2-Chloroethoxy)methane
Concen: 38.479 ng
RT: 7.910 min Scan# 989
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 93 Resp: 709782

Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.5	39.7
123	12.6	10.0	15.0

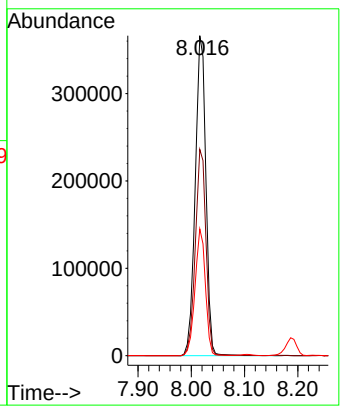




#29
2,4-Dichlorophenol
Concen: 41.536 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:162 Resp: 50933

Ion	Ratio	Lower	Upper
162	100		
164	64.5	44.3	84.3
98	39.6	19.6	59.6



Instrument :
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ClientSampleId :
PB166984BS

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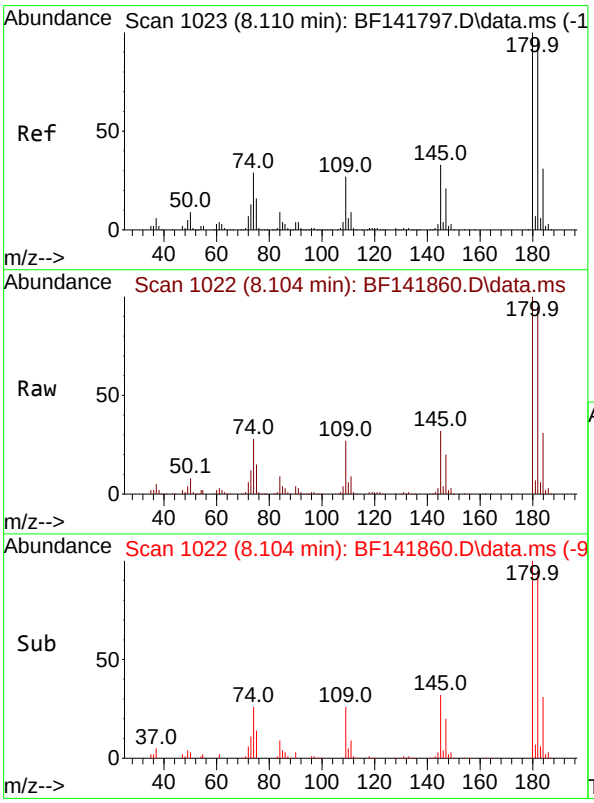
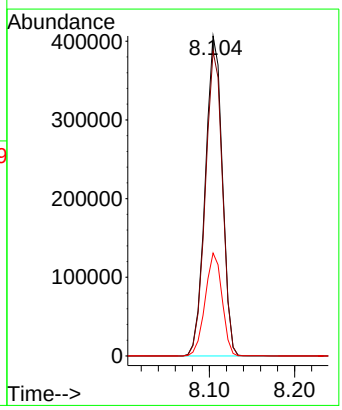
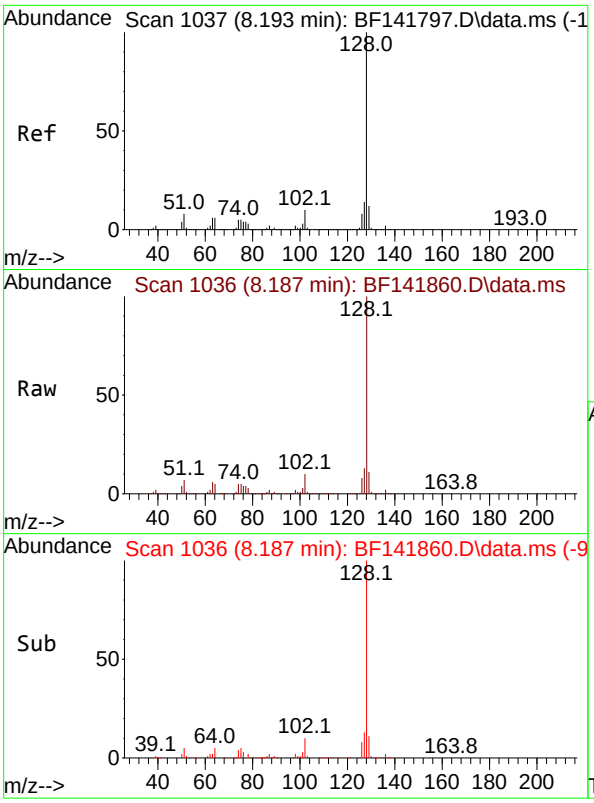


#30
1,2,4-Trichlorobenzene
Concen: 42.101 ng
RT: 8.104 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:180 Resp: 565708

Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.8	115.2
145	32.1	26.4	39.6

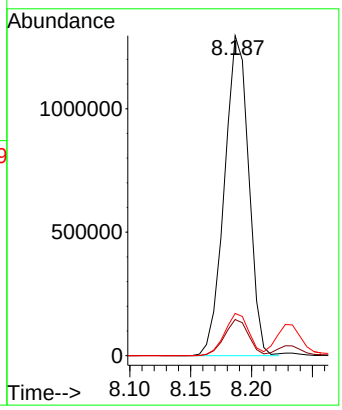




#31
Naphthalene
Concen: 40.665 ng
RT: 8.187 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:128 Resp: 179815

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.2	13.8
127	13.2	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
PB166984BS

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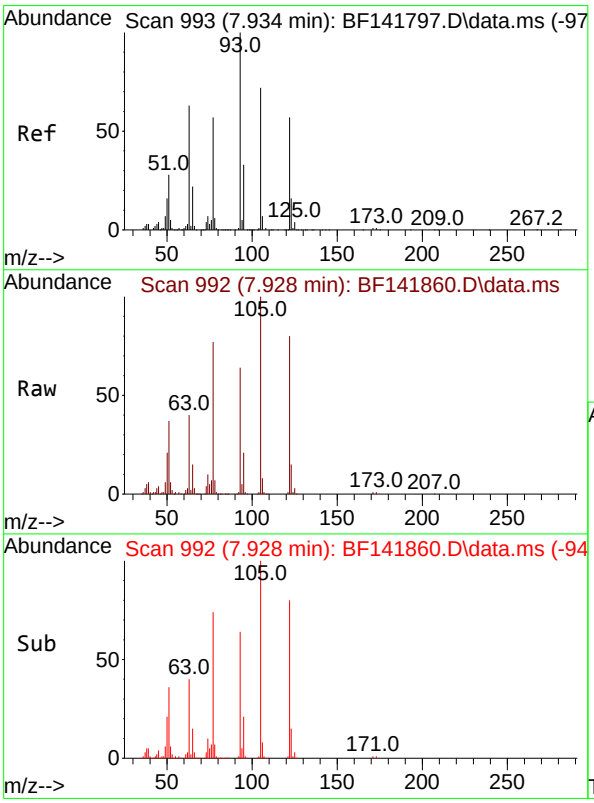
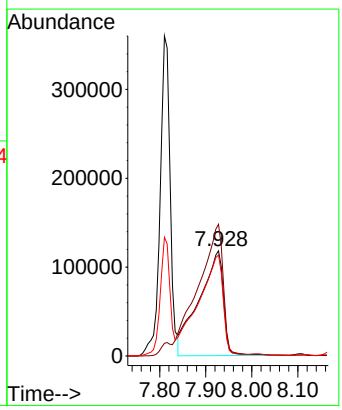
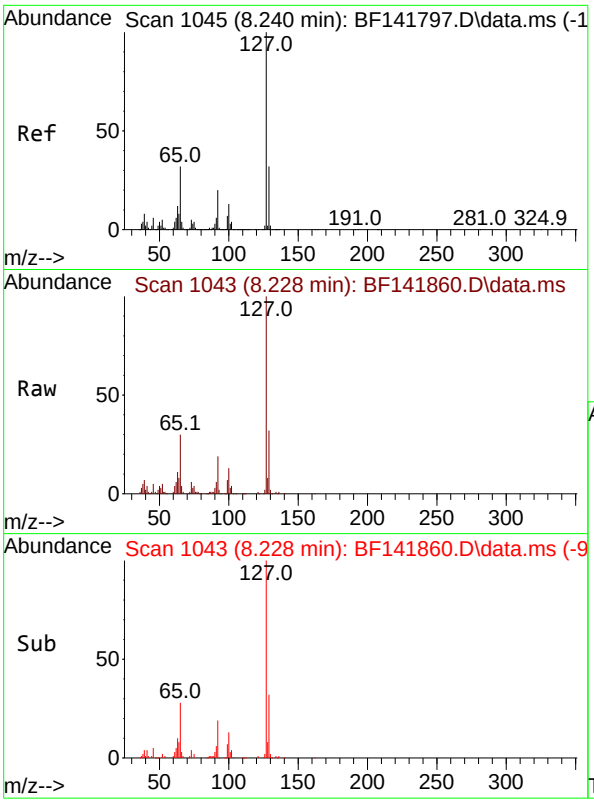


#32
Benzoic acid
Concen: 48.969 ng
RT: 7.928 min Scan# 992
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:122 Resp: 436083

Ion	Ratio	Lower	Upper
122	100		
105	125.2	105.8	145.8
77	96.1	79.9	119.9

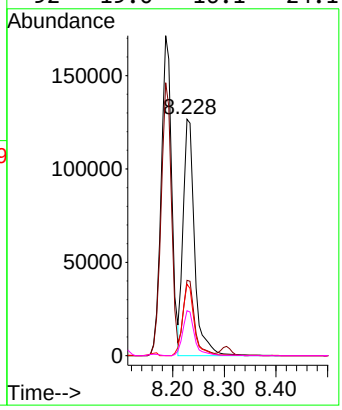




#33
4-Chloroaniline
Concen: 12.093 ng
RT: 8.228 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:127 Resp: 19607

Ion	Ratio	Lower	Upper
127	100		
129	31.8	26.1	39.1
65	30.3	25.7	38.5
92	19.0	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
PB166984BS

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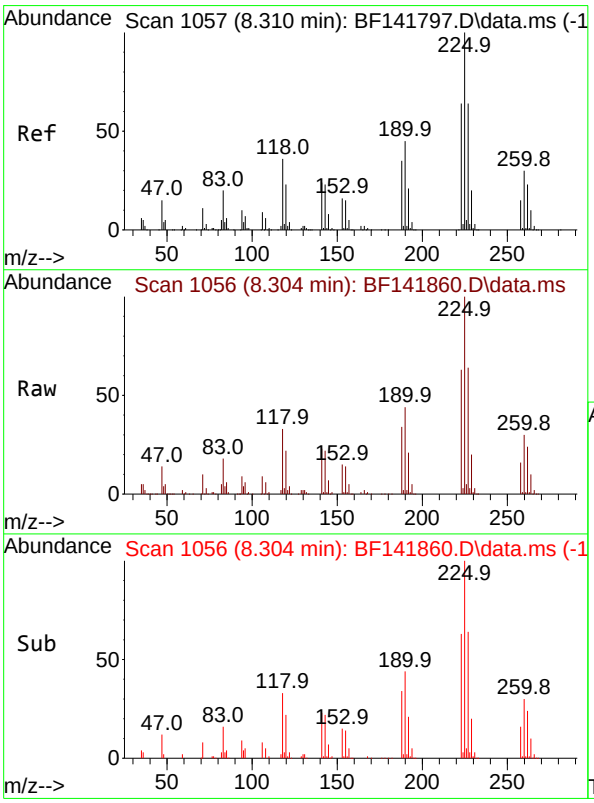
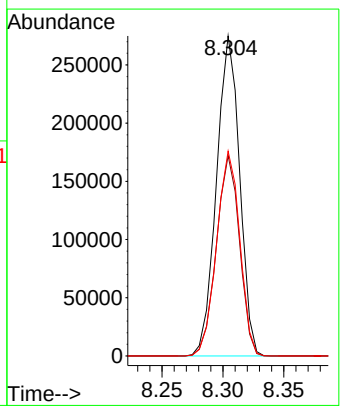
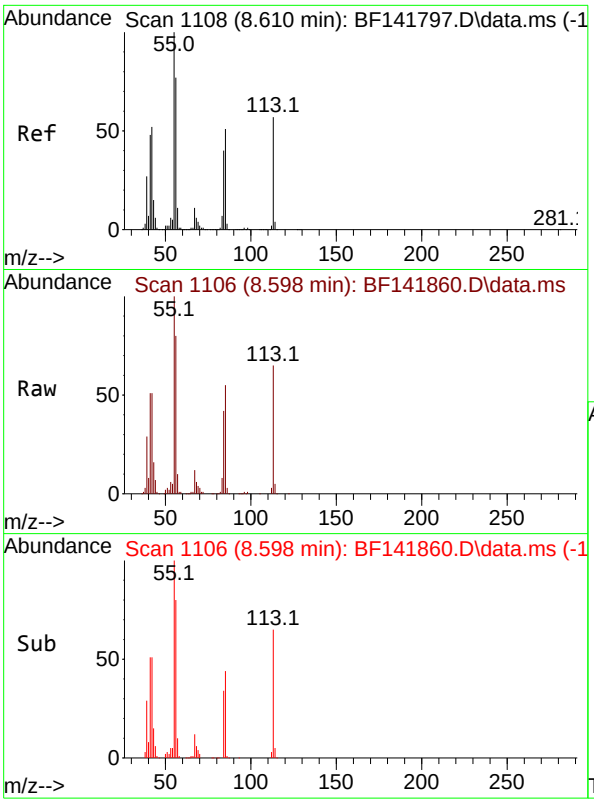


#34
Hexachlorobutadiene
Concen: 43.526 ng
RT: 8.304 min Scan# 1056
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:225 Resp: 363439

Ion	Ratio	Lower	Upper
225	100		
223	62.6	51.4	77.2
227	64.0	51.6	77.4

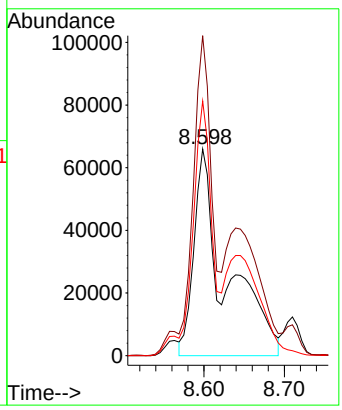




#35
Caprolactam
Concen: 48.041 ng m
RT: 8.598 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:113 Resp: 18122

Ion	Ratio	Lower	Upper
113	100		
55	154.8	155.6	195.6
56	123.2	114.6	154.6



Instrument :
BNA_F
ClientSampleId :
PB166984BS

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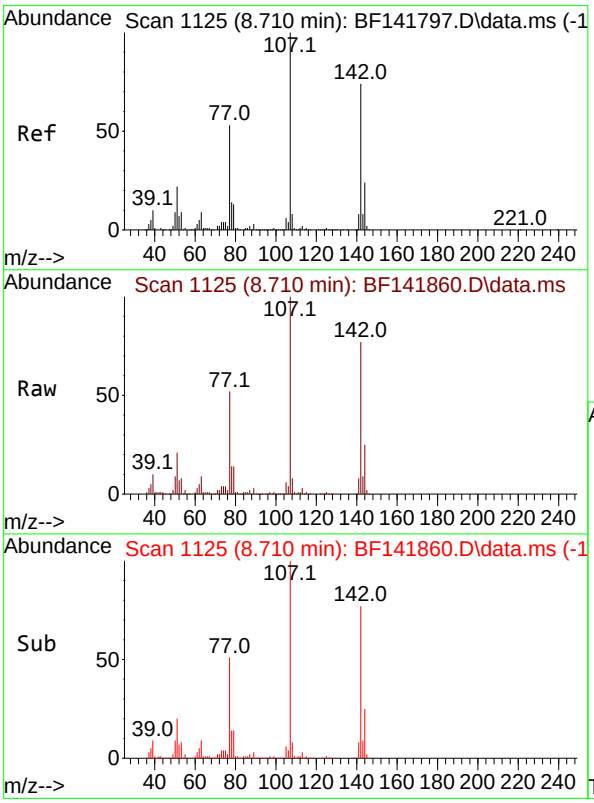
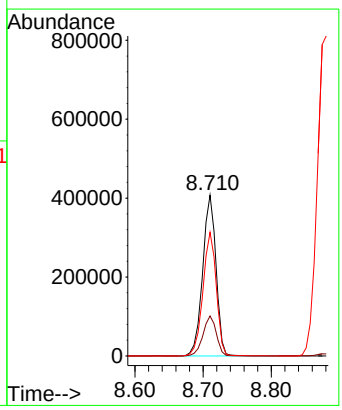
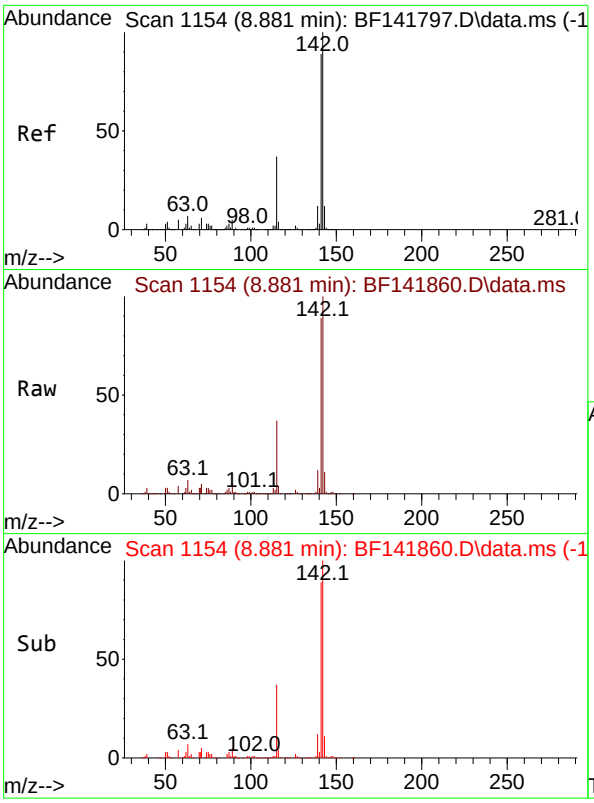


#36
4-Chloro-3-methylphenol
Concen: 40.762 ng
RT: 8.710 min Scan# 1125
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:107 Resp: 555267

Ion	Ratio	Lower	Upper
107	100		
144	24.9	19.4	29.0
142	76.9	59.4	89.0





#37
2-Methylnaphthalene
Concen: 39.174 ng
RT: 8.881 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:142 Resp: 113617

Ion	Ratio	Lower	Upper
142	100		
141	89.1	71.1	106.7

Instrument :
BNA_F
ClientSampleId :
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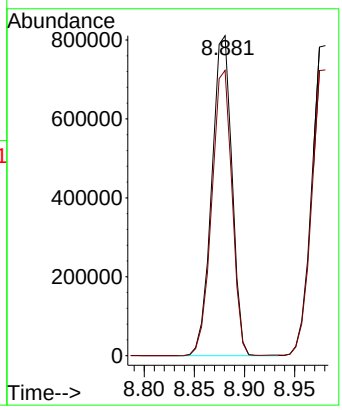
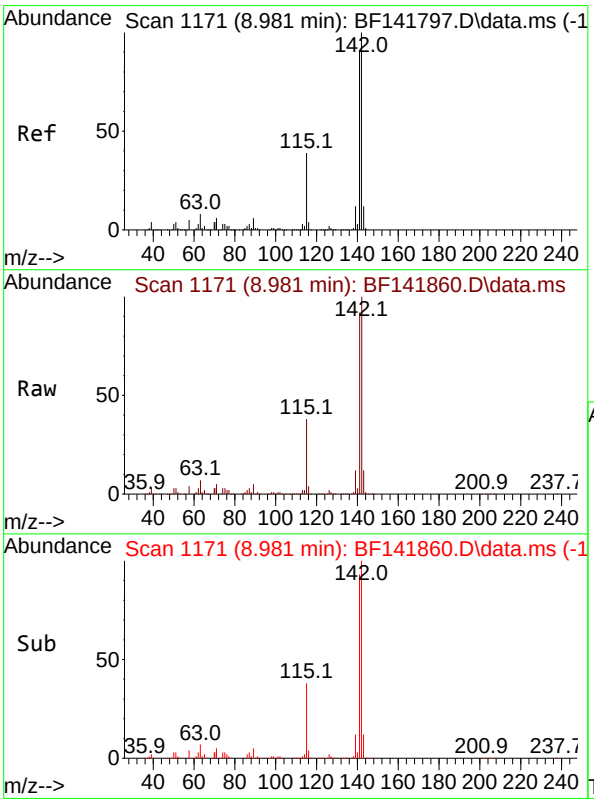
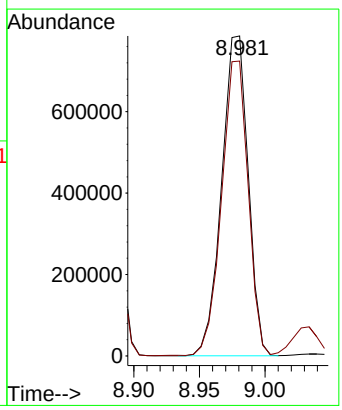


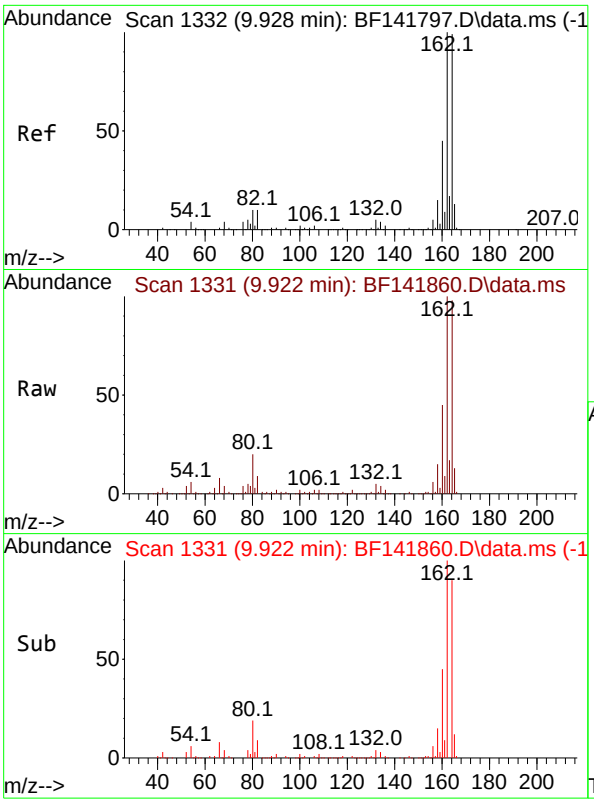


#38
1-Methylnaphthalene
Concen: 39.748 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:142 Resp: 1106172

Ion	Ratio	Lower	Upper
142	100		
141	92.2	73.1	109.7

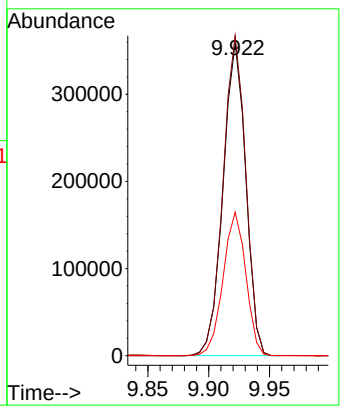




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:164 Resp: 46704

Ion	Ratio	Lower	Upper
164	100		
162	102.3	80.6	120.8
160	45.9	36.3	54.5



Instrument :
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ClientSampleId :
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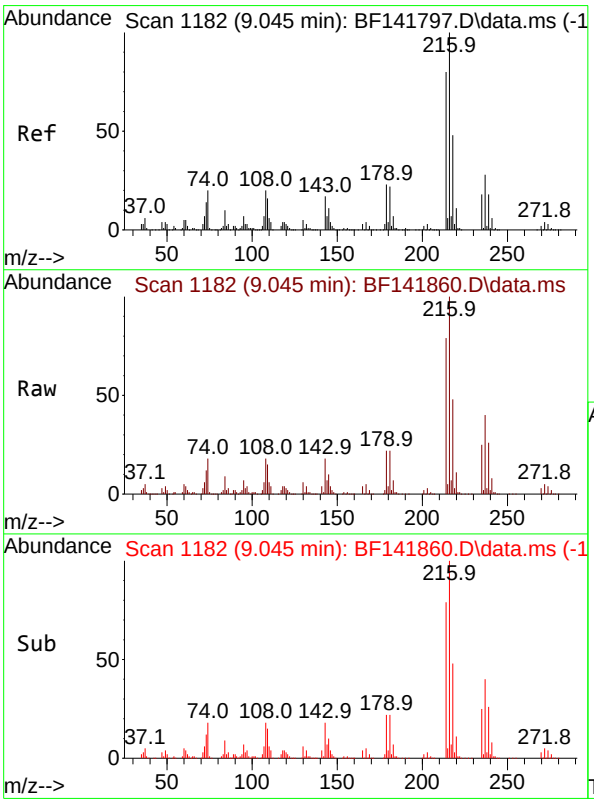
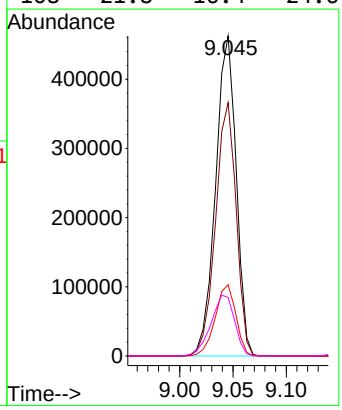
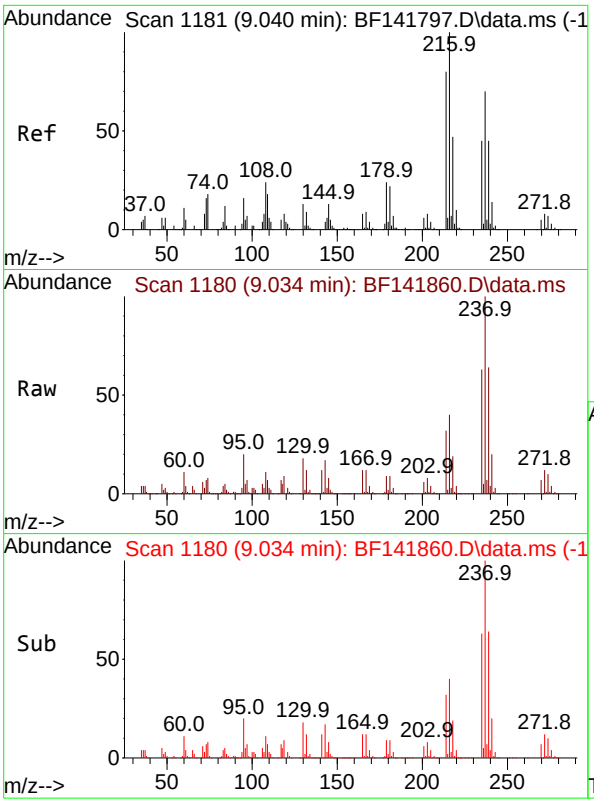


#40
1,2,4,5-Tetrachlorobenzene
Concen: 46.050 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:216 Resp: 621149

Ion	Ratio	Lower	Upper
216	100		
214	79.2	63.5	95.3
179	22.4	18.1	27.1
108	21.8	16.4	24.6

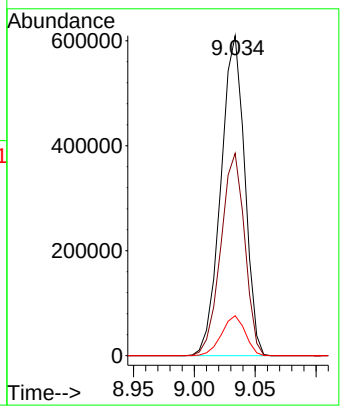




#41
Hexachlorocyclopentadiene
Concen: 147.481 ng
RT: 9.034 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:237 Resp: 83019

Ion	Ratio	Lower	Upper
237	100		
235	63.3	43.3	83.3
272	12.5	0.0	31.9



Instrument :
BNA_F
ClientSampleId :
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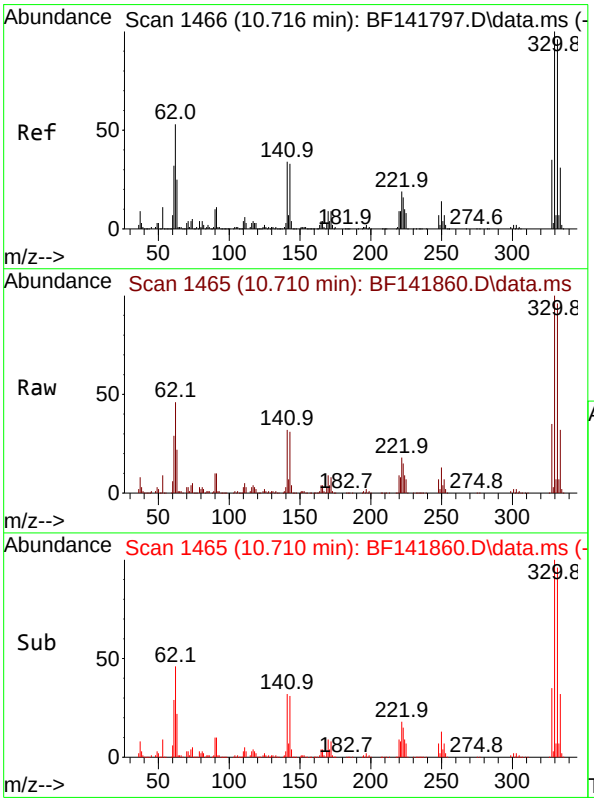
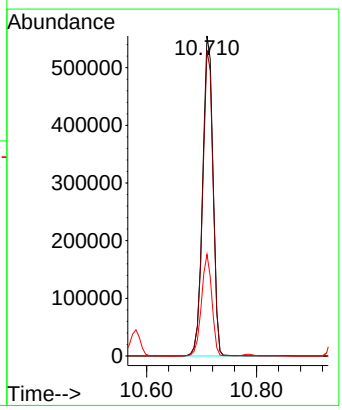
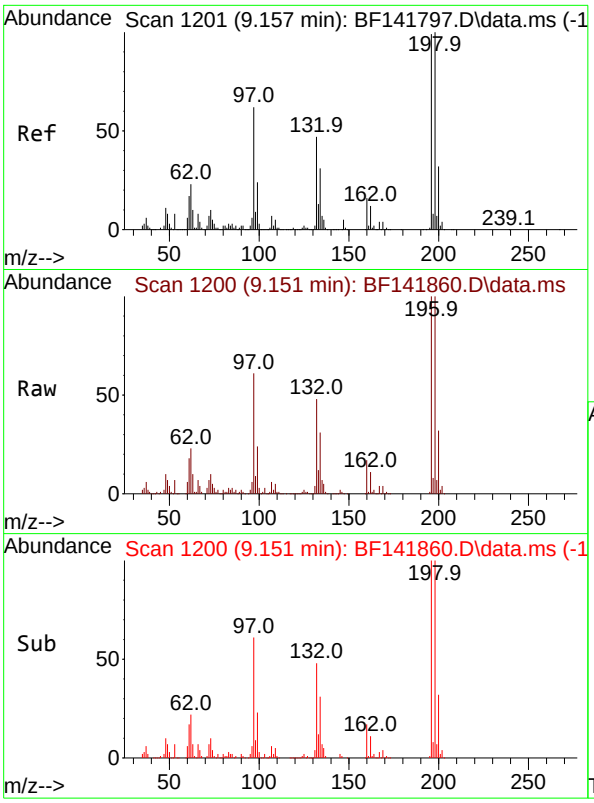


#42
2,4,6-Tribromophenol
Concen: 165.555 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:330 Resp: 725902

Ion	Ratio	Lower	Upper
330	100		
332	95.9	76.6	115.0
141	31.8	29.0	43.4

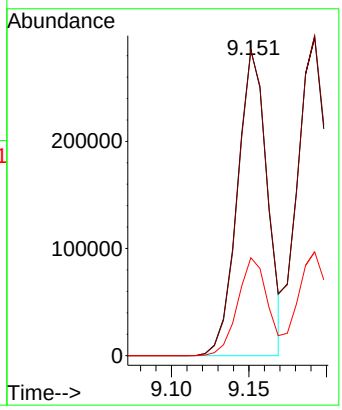




#43
2,4,6-Trichlorophenol
Concen: 43.792 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:196 Resp: 38156

Ion	Ratio	Lower	Upper
196	100		
198	99.7	80.4	120.6
200	32.0	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
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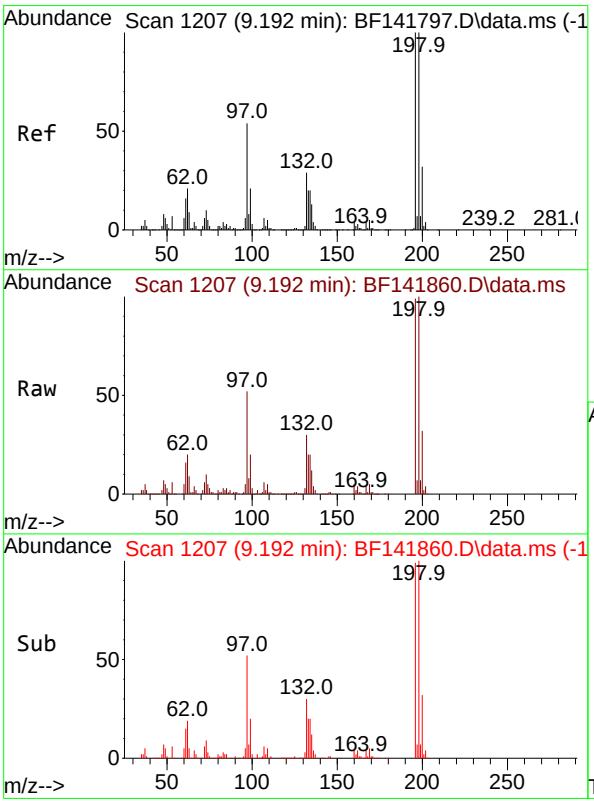
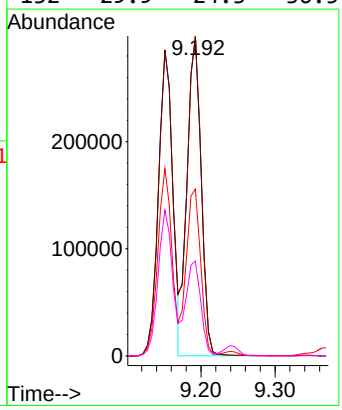
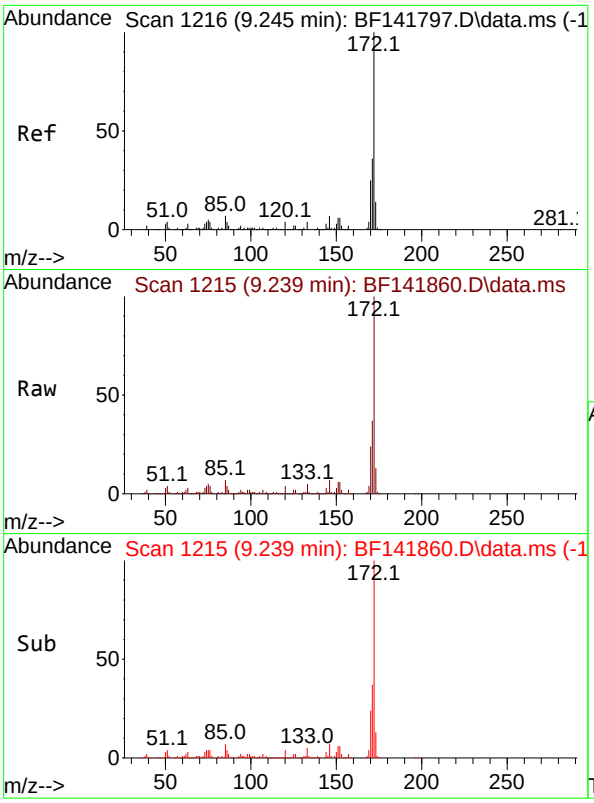


#44
2,4,5-Trichlorophenol
Concen: 45.604 ng
RT: 9.192 min Scan# 1207
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:196 Resp: 393469

Ion	Ratio	Lower	Upper
196	100		
198	100.7	79.7	119.5
97	52.5	44.2	66.2
132	29.9	24.3	36.5

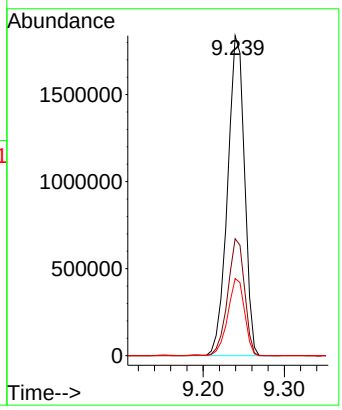




#45
2-Fluorobiphenyl
Concen: 91.306 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:172 Resp: 265950

Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.2	43.8
170	24.1	19.7	29.5



Instrument :
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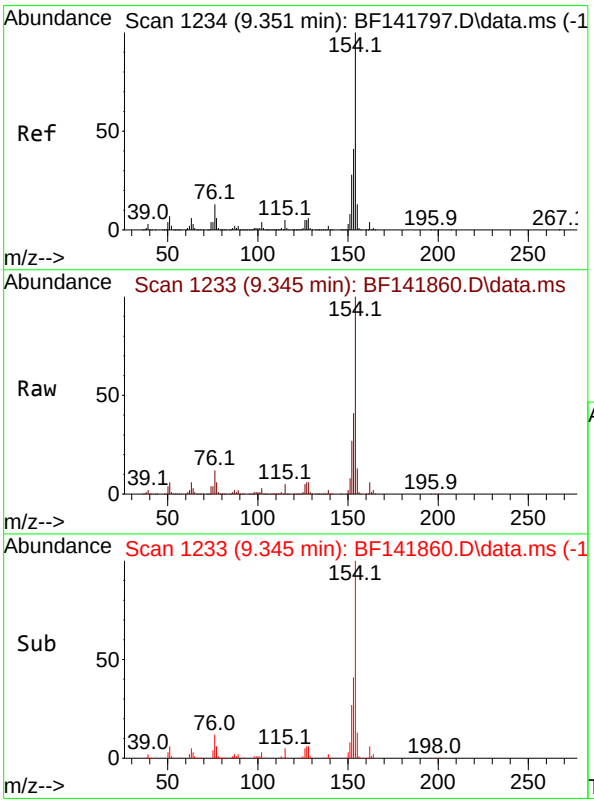
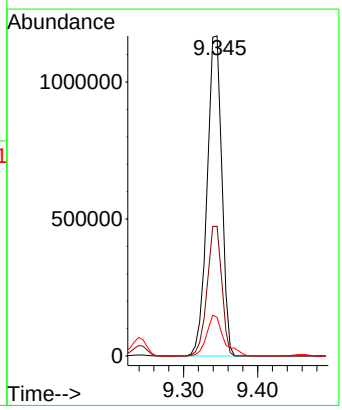
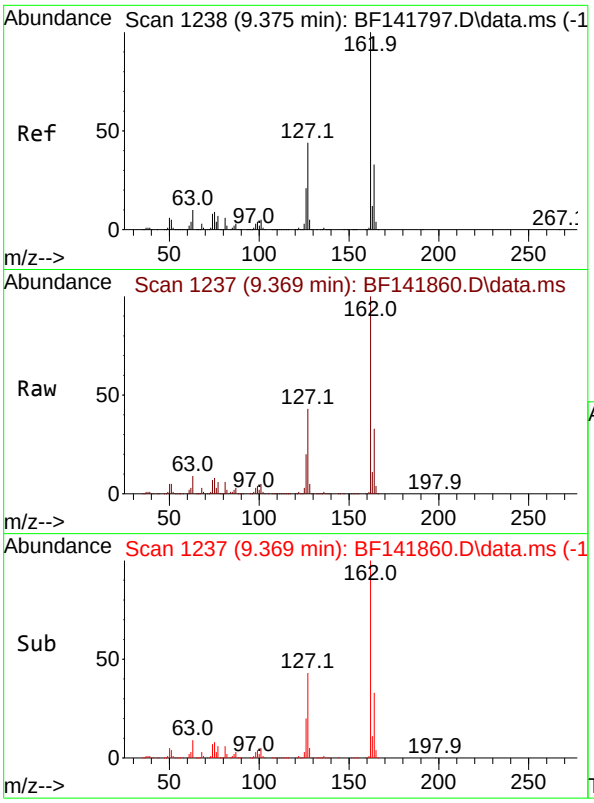


#46
1,1'-Biphenyl
Concen: 45.323 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:154 Resp: 1611215

Ion	Ratio	Lower	Upper
154	100		
153	40.5	21.4	61.4
76	12.0	0.0	33.4

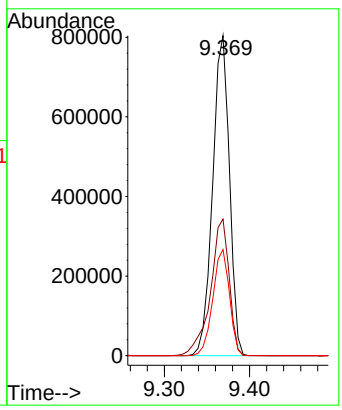




#47
2-Chloronaphthalene
Concen: 41.882 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:162 Resp: 109888

Ion	Ratio	Lower	Upper
162	100		
127	42.7	35.0	52.6
164	33.1	26.6	40.0



Instrument :
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ClientSampleId :
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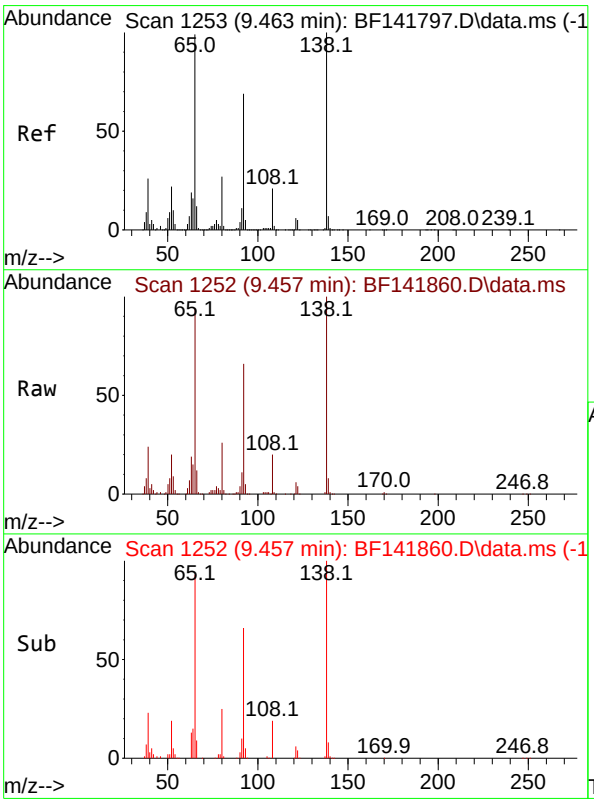
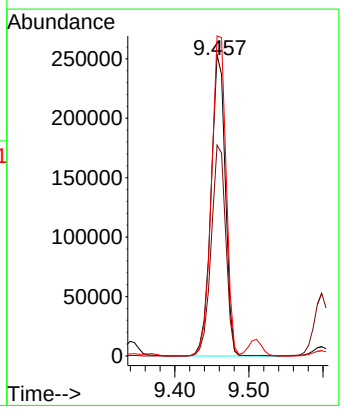
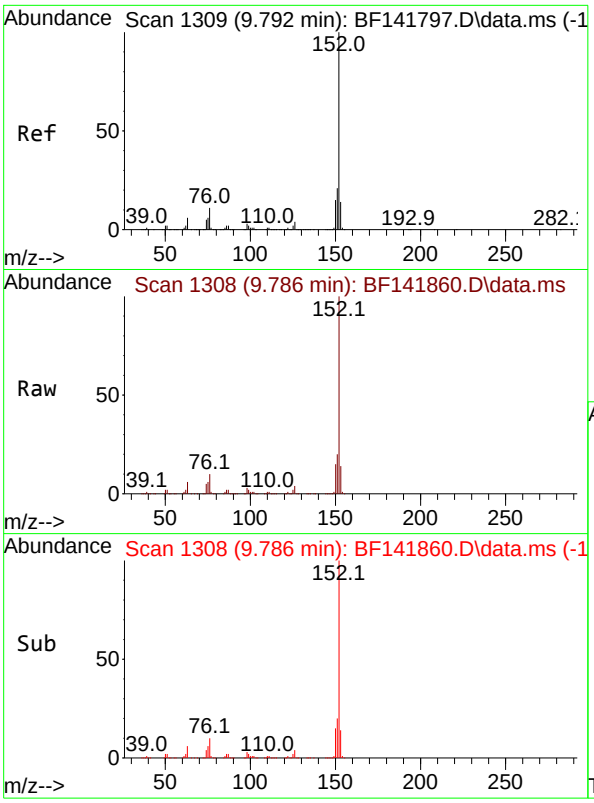


#48
2-Nitroaniline
Concen: 47.626 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 65 Resp: 341789

Ion	Ratio	Lower	Upper
65	100		
92	70.0	55.7	83.5
138	106.3	80.6	121.0

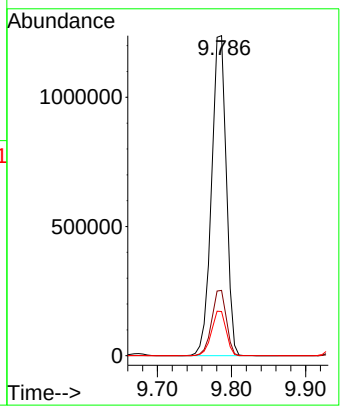




#49
Acenaphthylene
Concen: 43.557 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:152 Resp: 171347

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	24.8
153	13.8	11.2	16.8



Instrument :
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ClientSampleId :
PB166984BS

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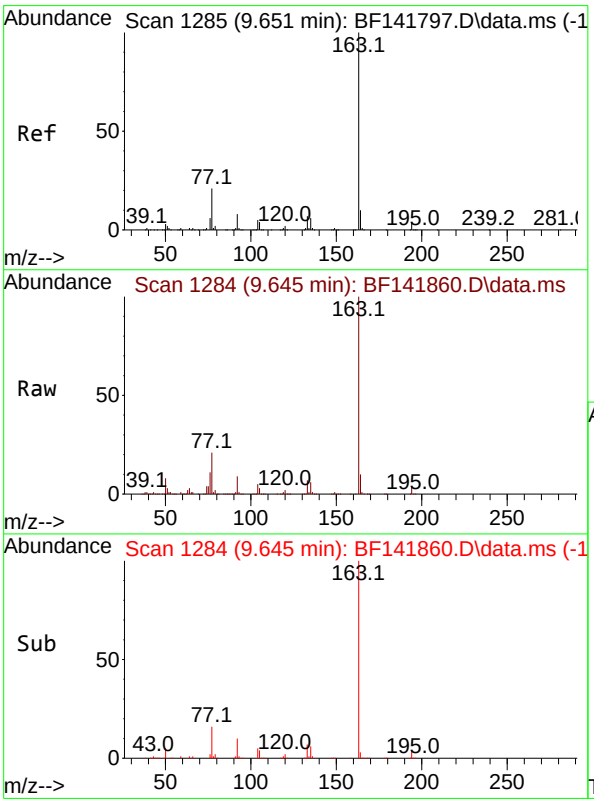
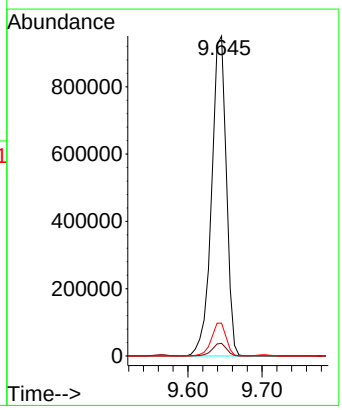
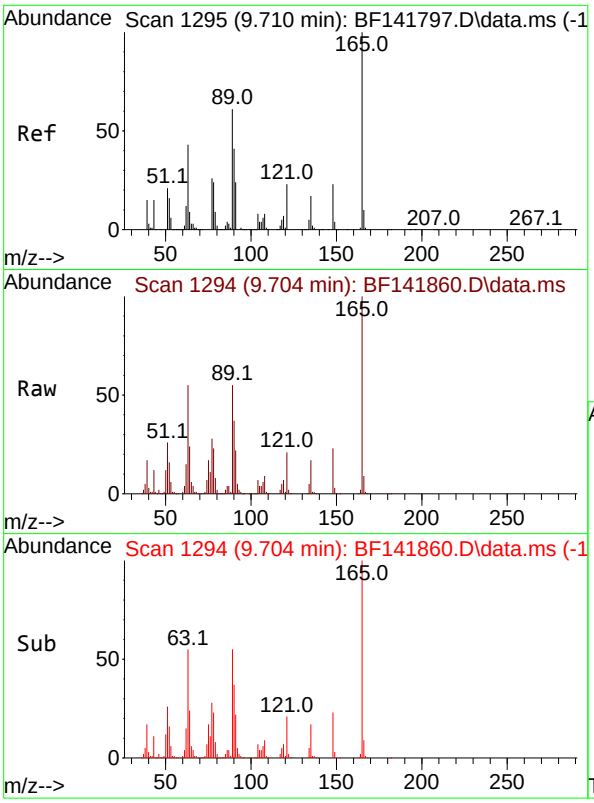


#50
Dimethylphthalate
Concen: 42.006 ng
RT: 9.645 min Scan# 1284
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:163 Resp: 1313815

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.2	8.4	12.6

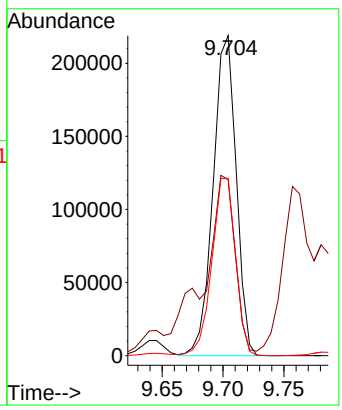




#51
2,6-Dinitrotoluene
Concen: 48.247 ng
RT: 9.704 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:165 Resp: 28876

Ion	Ratio	Lower	Upper
165	100		
63	55.0	49.5	74.3
89	55.5	49.0	73.4



Instrument :
BNA_F
ClientSampleId :
PB166984BS

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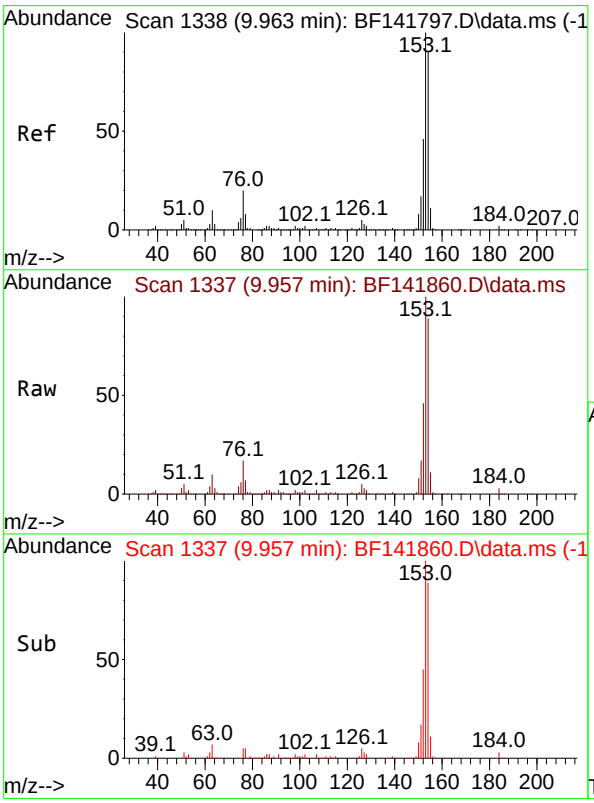
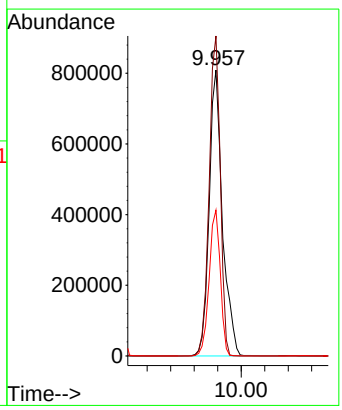
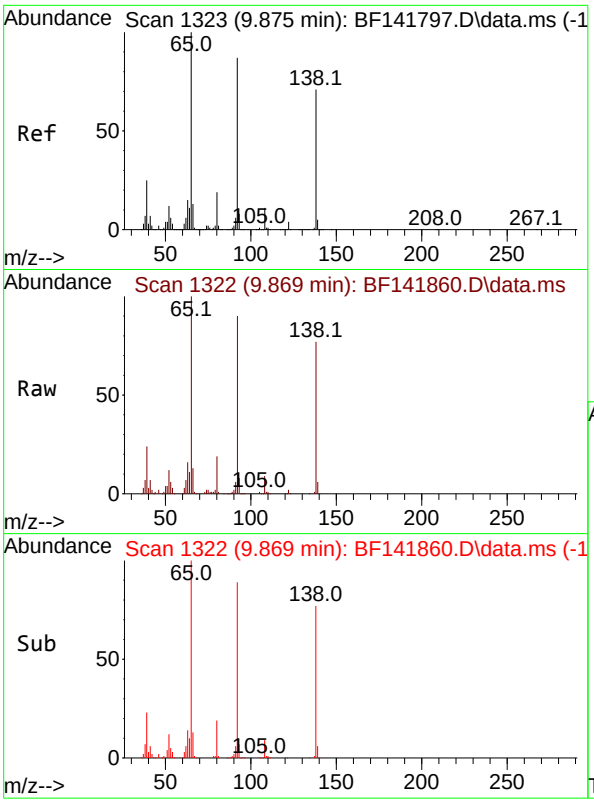


#52
Acenaphthene
Concen: 47.702 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:154 Resp: 1266215

Ion	Ratio	Lower	Upper
154	100		
153	111.9	88.7	133.1
152	51.0	40.9	61.3





#53
3-Nitroaniline
Concen: 25.520 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:138 Resp: 15320

Ion	Ratio	Lower	Upper
138	100		
108	11.6	12.7	19.1#
92	117.0	97.9	146.9

Instrument :
BNA_F
ClientSampleId :
PB166984BS

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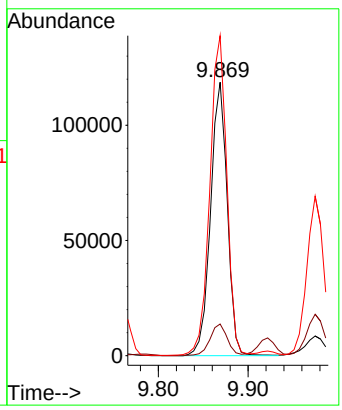
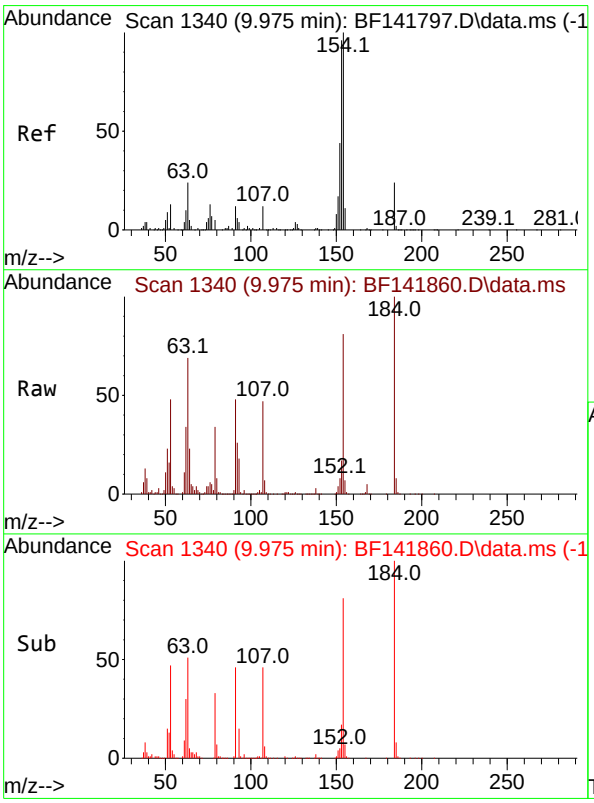
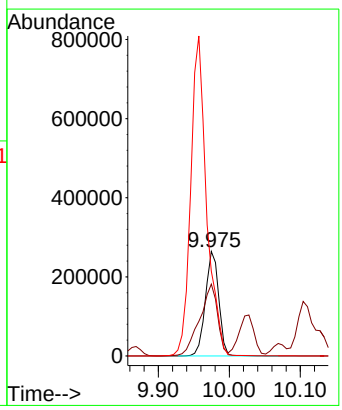


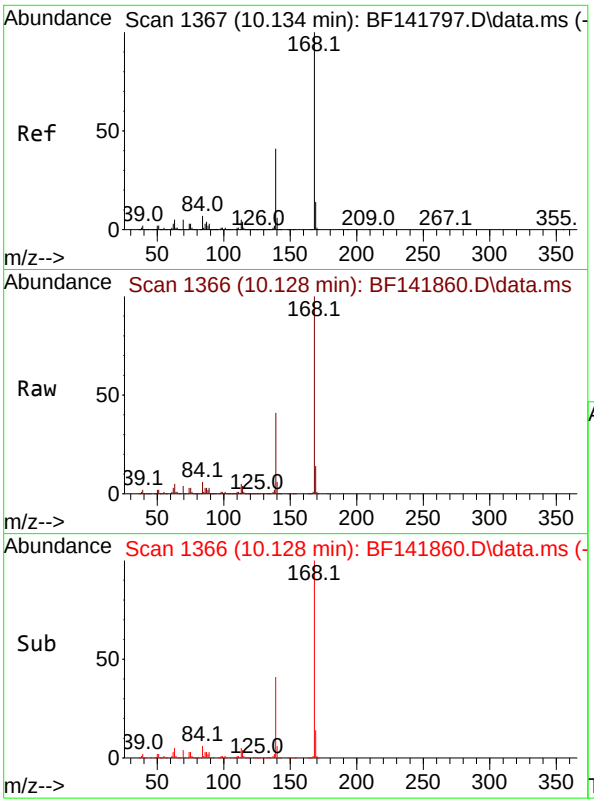


#54
2,4-Dinitrophenol
Concen: 111.084 ng
RT: 9.975 min Scan# 1340
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:184 Resp: 346122

Ion	Ratio	Lower	Upper
184	100		
63	68.9	79.0	118.6#
154	81.2	335.8	503.8#

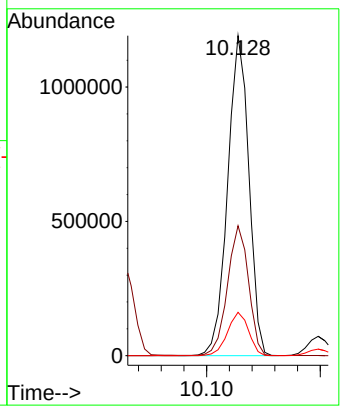




#55
Dibenzofuran
Concen: 39.970 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:168 Resp: 154424

Ion	Ratio	Lower	Upper
168	100		
139	40.6	32.9	49.3
169	13.5	11.1	16.7



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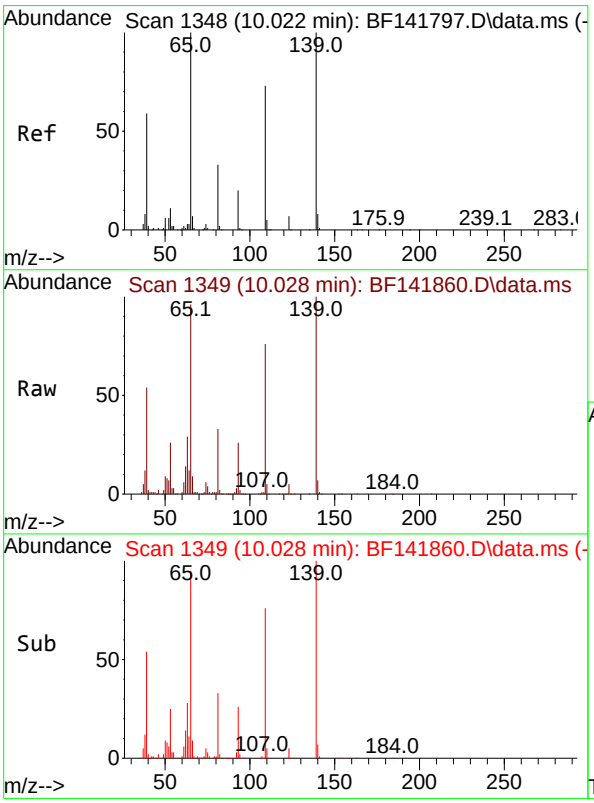
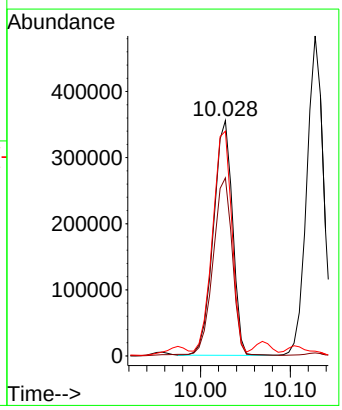
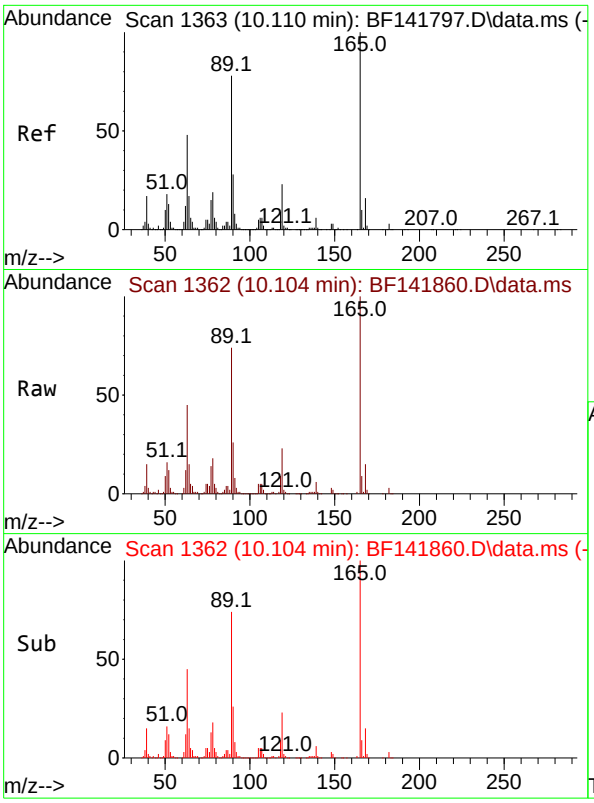


#56
4-Nitrophenol
Concen: 113.842 ng
RT: 10.028 min Scan# 1349
Delta R.T. 0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:139 Resp: 525883

Ion	Ratio	Lower	Upper
139	100		
109	75.6	53.4	93.4
65	95.5	82.1	122.1

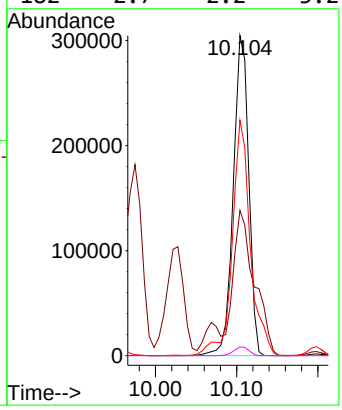




#57
2,4-Dinitrotoluene
Concen: 54.446 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:165 Resp: 40163

Ion	Ratio	Lower	Upper
165	100		
63	45.3	38.8	58.2
89	73.6	62.6	94.0
182	2.7	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
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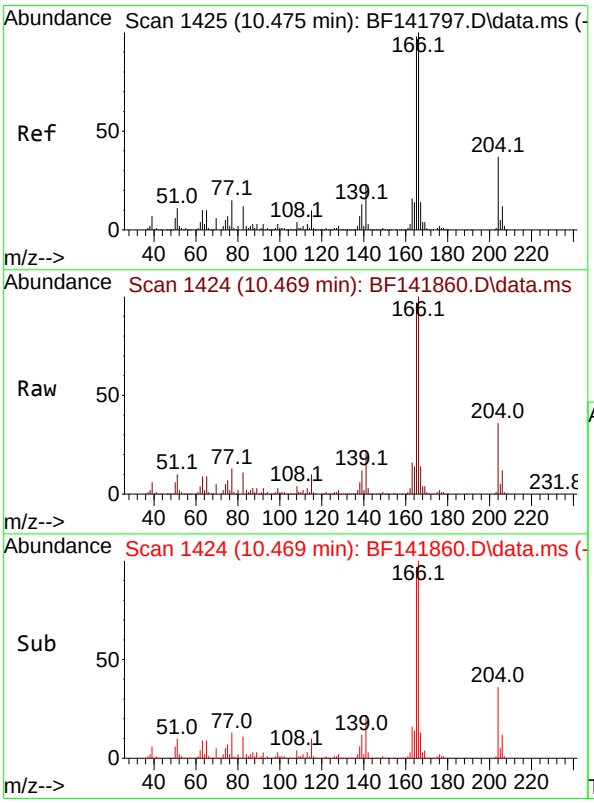
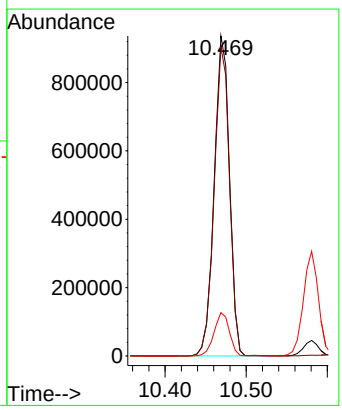
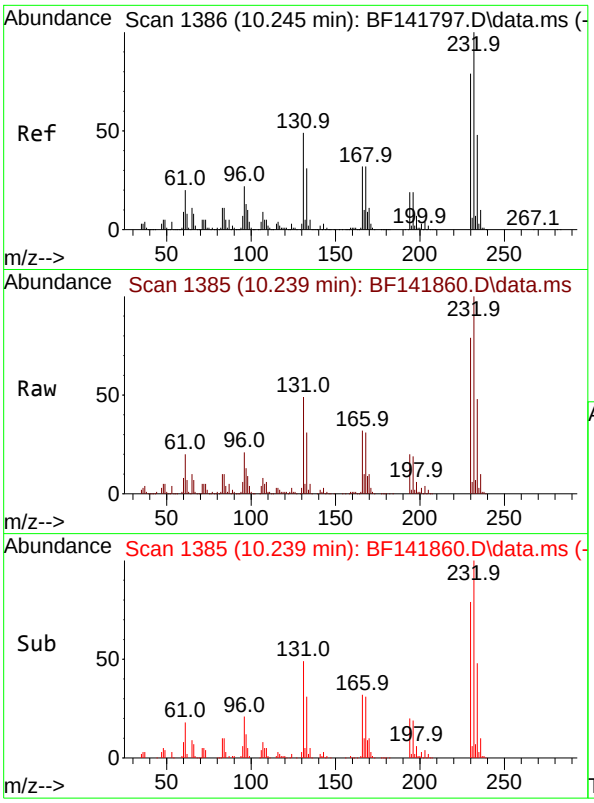


#58
Fluorene
Concen: 42.376 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:166 Resp: 1226351

Ion	Ratio	Lower	Upper
166	100		
165	96.5	78.6	117.8
167	13.5	11.0	16.4

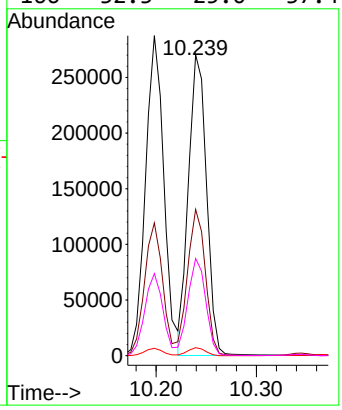




#59
2,3,4,6-Tetrachlorophenol
Concen: 45.070 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:232 Resp: 33819

Ion	Ratio	Lower	Upper
232	100		
131	48.4	37.8	56.8
130	2.6	2.0	3.0
166	32.3	25.0	37.4



Instrument :
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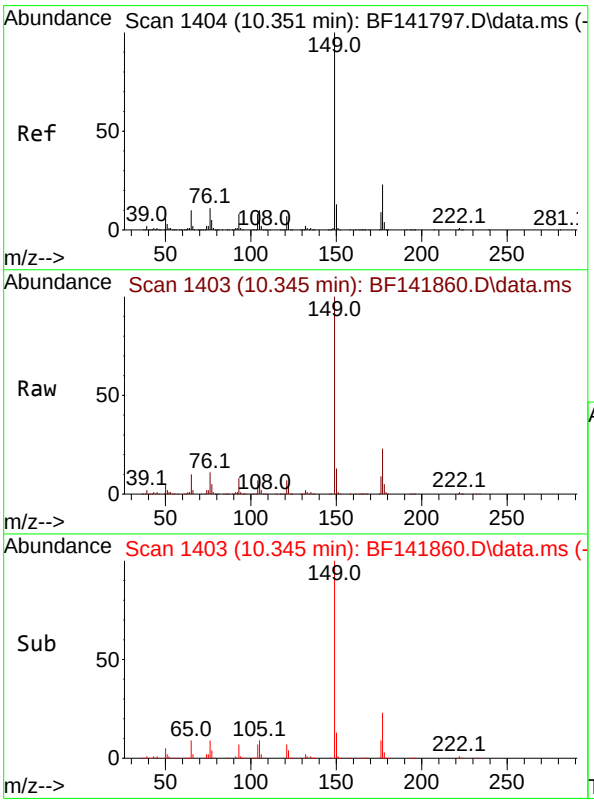
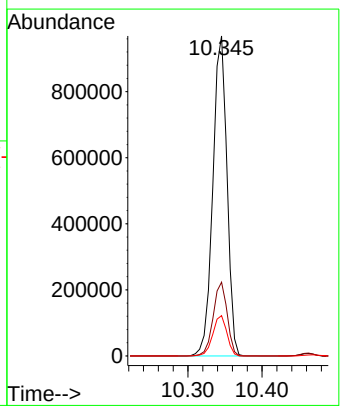
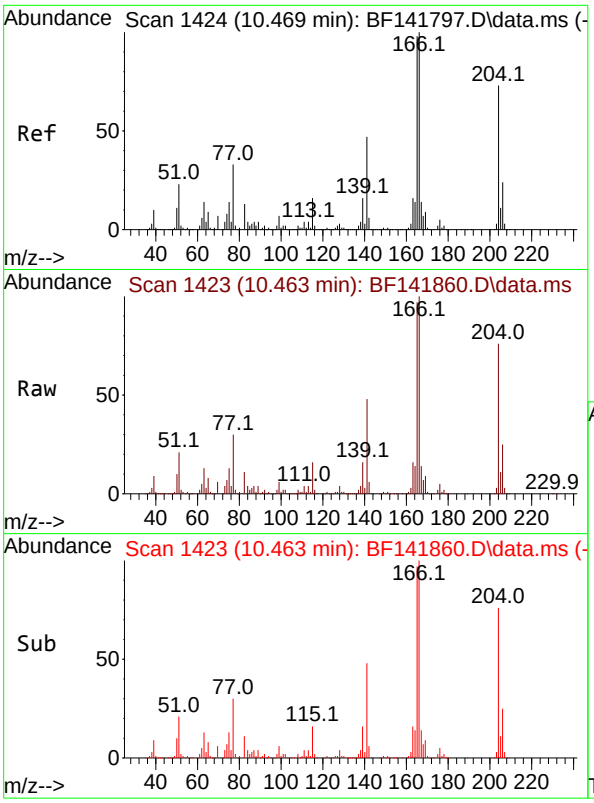


#60
Diethylphthalate
Concen: 40.869 ng
RT: 10.345 min Scan# 1403
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:149 Resp: 1281425

Ion	Ratio	Lower	Upper
149	100		
177	23.0	18.3	27.5
150	12.6	10.3	15.5





#61
4-Chlorophenyl-phenylether
Concen: 42.256 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Instrument :
BNA_F
ClientSampleId :
PB166984BS

Tgt Ion:204 Resp: 61270

Ion	Ratio	Lower	Upper
204	100		
206	32.8	26.2	39.4
141	63.3	51.7	77.5

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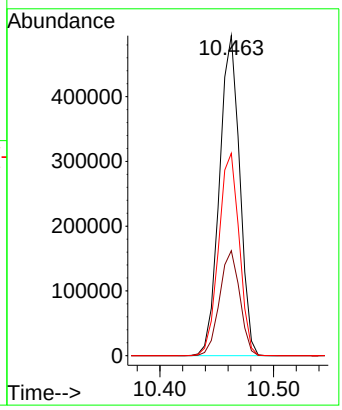
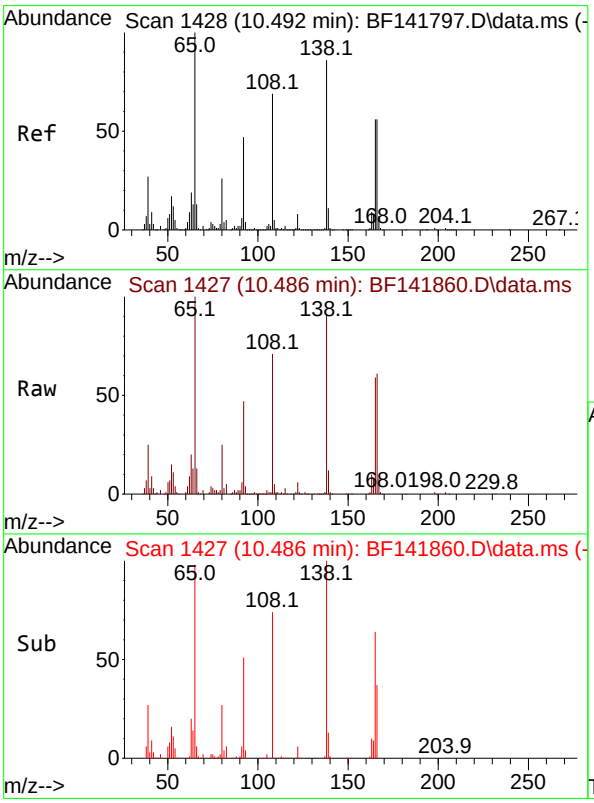
Supervised By :Jagrut Upadhyay 03/07/2025

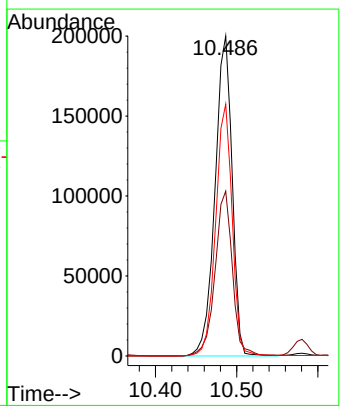


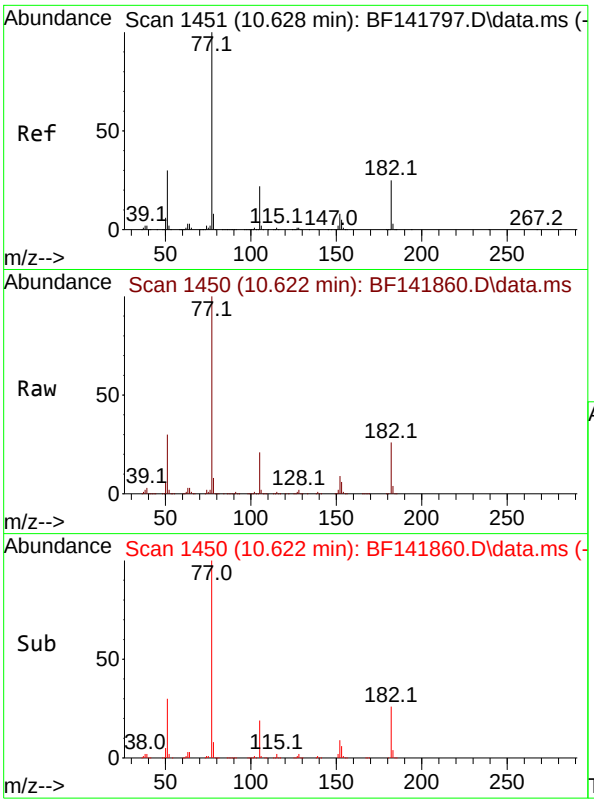


#62
4-Nitroaniline
Concen: 54.897 ng
RT: 10.486 min Scan# 1427
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:138 Resp: 293220

Ion	Ratio	Lower	Upper
138	100		
92	51.5	34.9	74.9
108	78.7	59.6	99.6

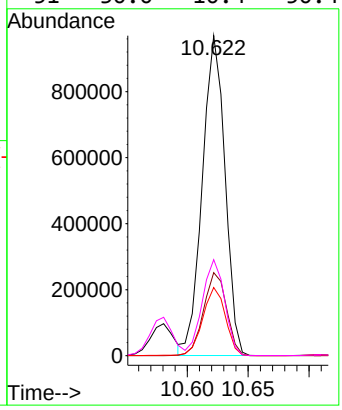




#63
Azobenzene
Concen: 37.955 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 77 Resp: 125304

Ion	Ratio	Lower	Upper
77	100		
182	25.9	4.2	44.2
105	21.3	1.5	41.5
51	30.0	10.4	50.4



Instrument :
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ClientSampleId :
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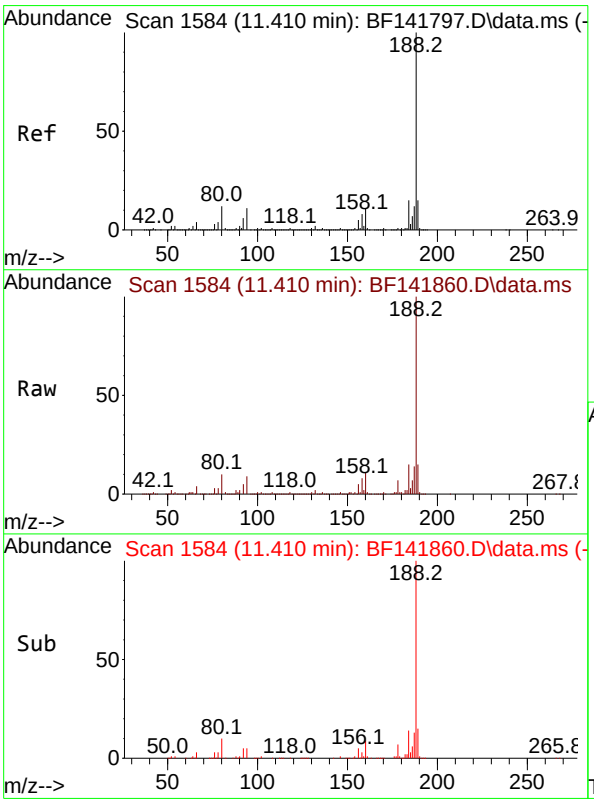
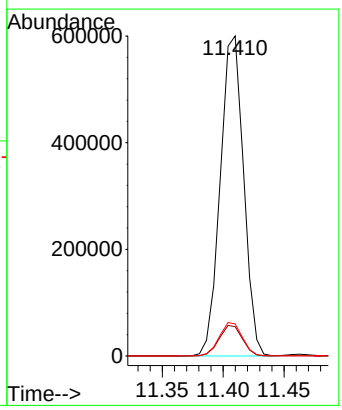
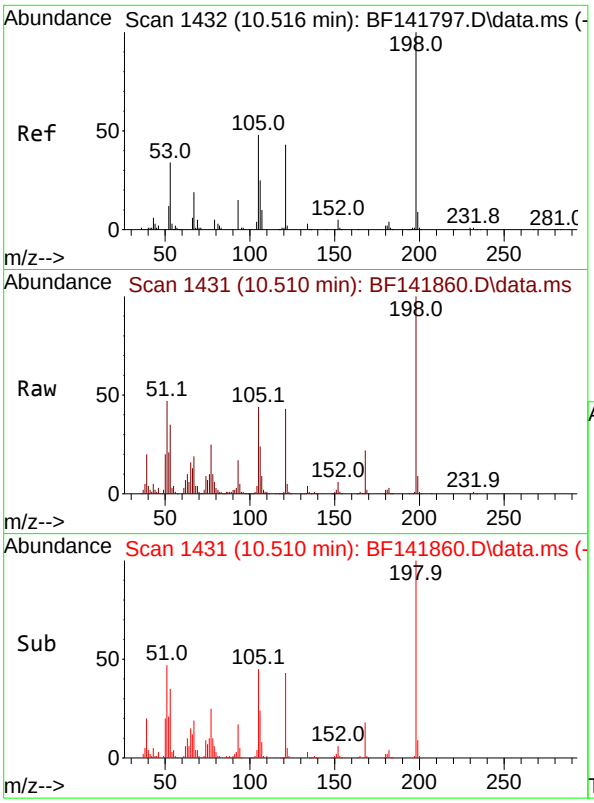


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:188 Resp: 801941

Ion	Ratio	Lower	Upper
188	100		
94	9.1	8.9	13.3
80	10.0	9.7	14.5

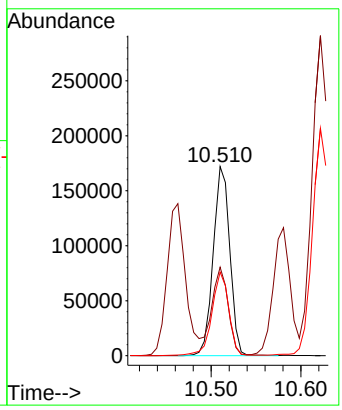




#65
4,6-Dinitro-2-methylphenol
Concen: 56.697 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:198 Resp: 22080

Ion	Ratio	Lower	Upper
198	100		
51	46.8	32.1	72.1
105	44.2	28.5	68.5



Instrument :
BNA_F
ClientSampleId :
PB166984BS

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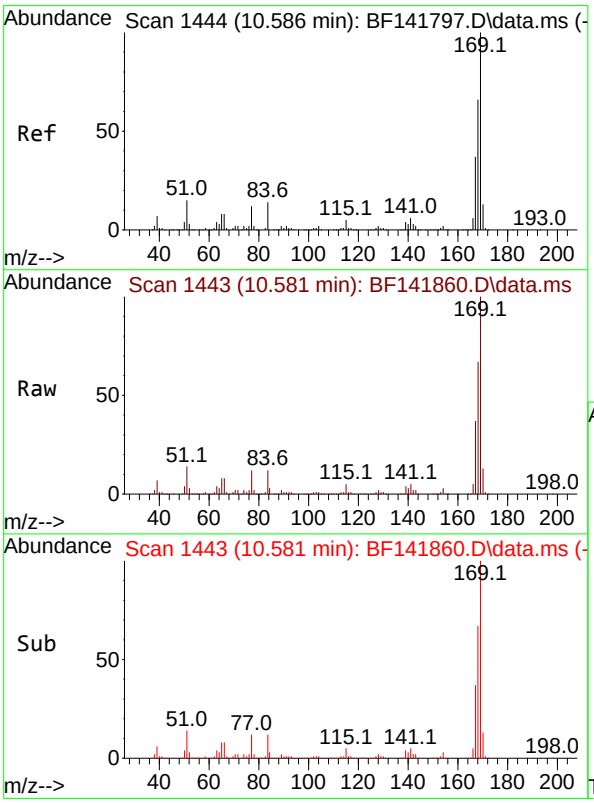
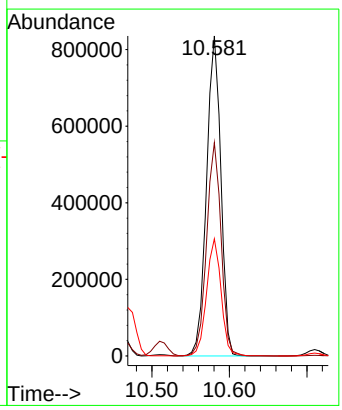
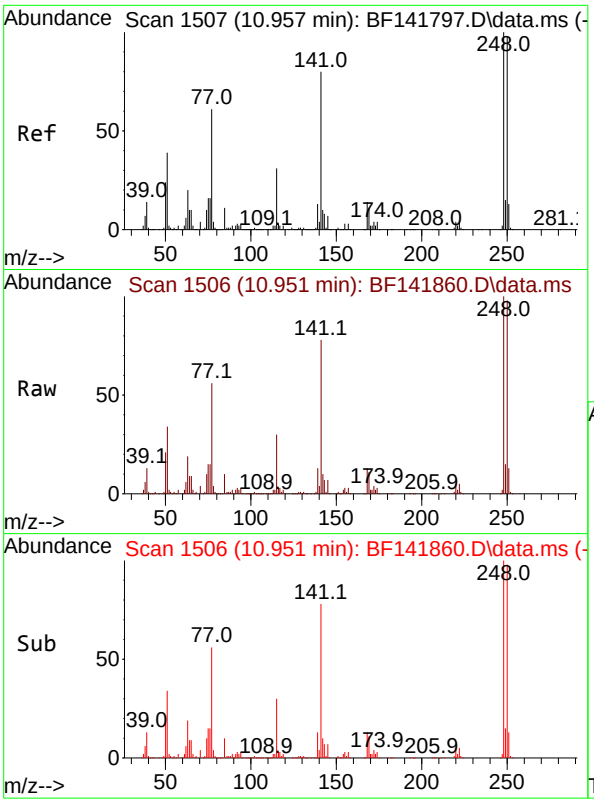


#66
n-Nitrosodiphenylamine
Concen: 40.709 ng
RT: 10.581 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:169 Resp: 1071992

Ion	Ratio	Lower	Upper
169	100		
168	66.6	53.0	79.6
167	36.6	29.3	43.9

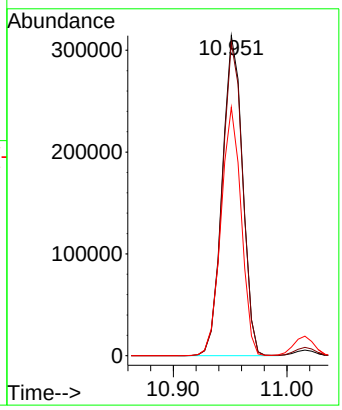




#67
4-Bromophenyl-phenylether
Concen: 41.818 ng
RT: 10.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:248 Resp: 39171

Ion	Ratio	Lower	Upper
248	100		
250	97.8	78.1	117.1
141	77.6	64.3	96.5



Instrument :
BNA_F
ClientSampleId :
PB166984BS

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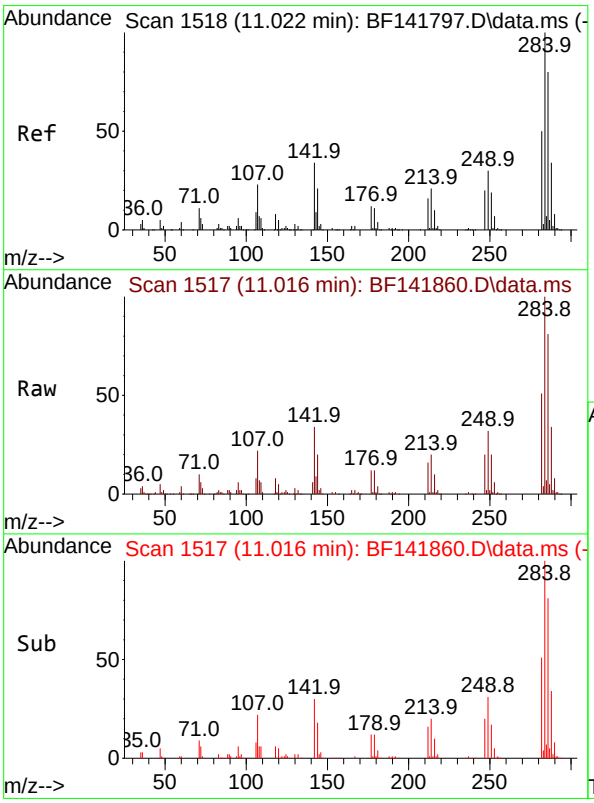
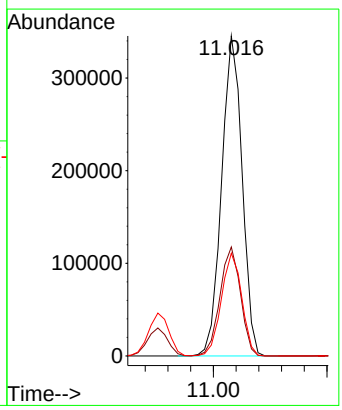
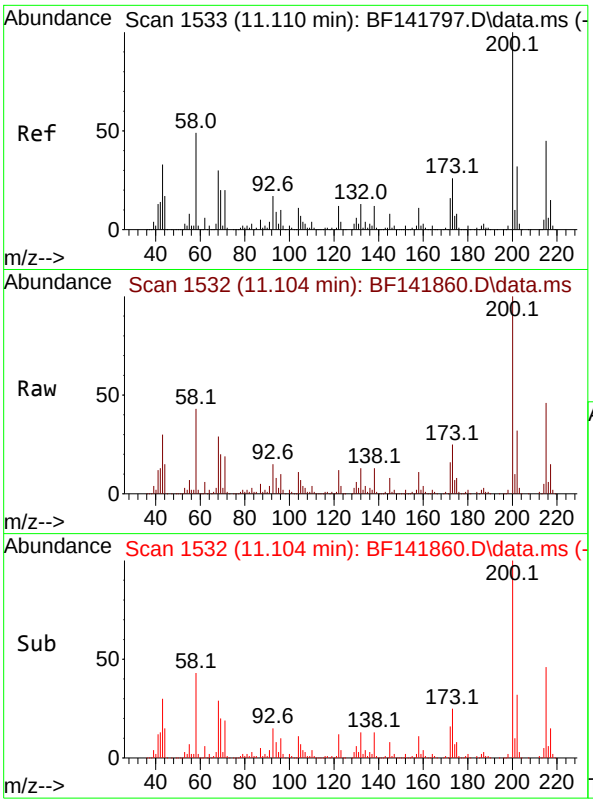


#68
Hexachlorobenzene
Concen: 43.759 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:284 Resp: 432837

Ion	Ratio	Lower	Upper
284	100		
142	34.0	28.2	42.2
249	32.1	25.5	38.3

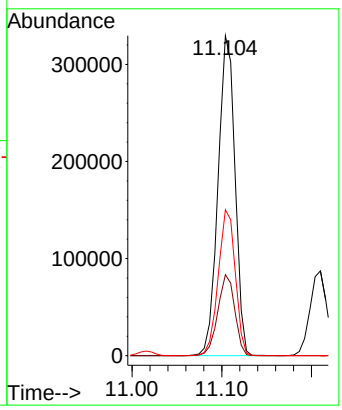




#69
Atrazine
Concen: 59.829 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:200 Resp: 43324

Ion	Ratio	Lower	Upper
200	100		
173	25.3	5.6	45.6
215	45.6	25.3	65.3



Instrument :
BNA_F
ClientSampleId :
PB166984BS

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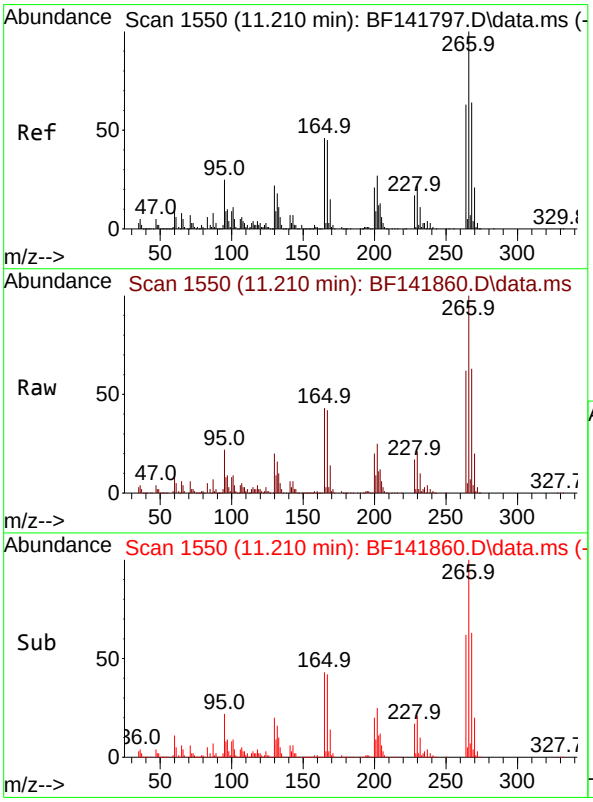
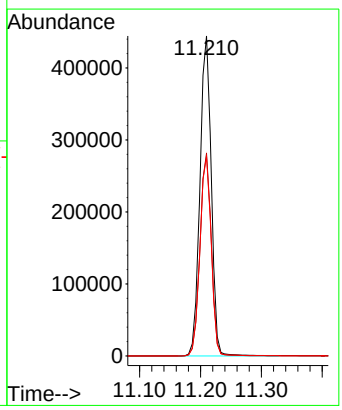
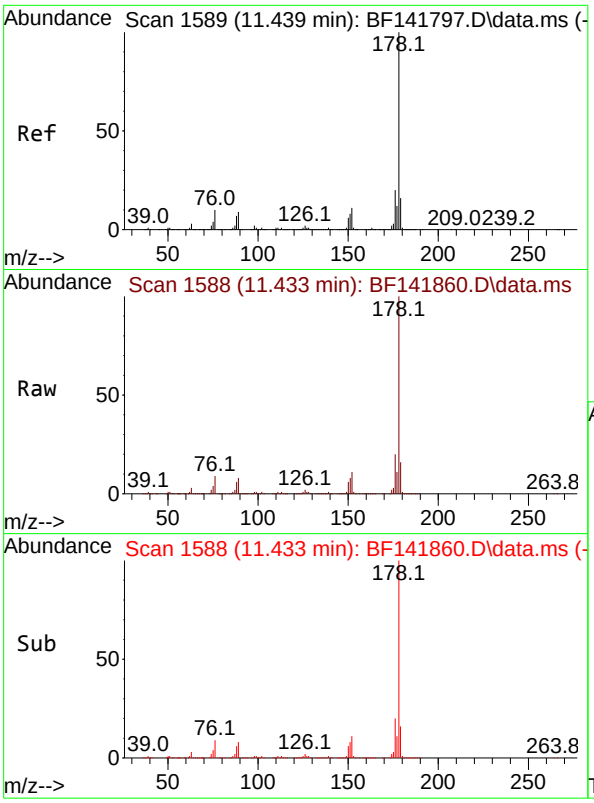


#70
Pentachlorophenol
Concen: 91.516 ng
RT: 11.210 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:266 Resp: 574113

Ion	Ratio	Lower	Upper
266	100		
268	63.3	50.9	76.3
264	62.4	50.2	75.4





#71
Phenanthrene
Concen: 42.258 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:178 Resp: 181270

Ion	Ratio	Lower	Upper
178	100		
176	19.7	16.0	24.0
179	15.7	12.6	19.0

Instrument :
BNA_F
ClientSampleId :
PB166984BS

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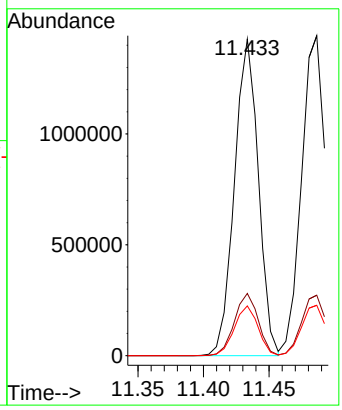
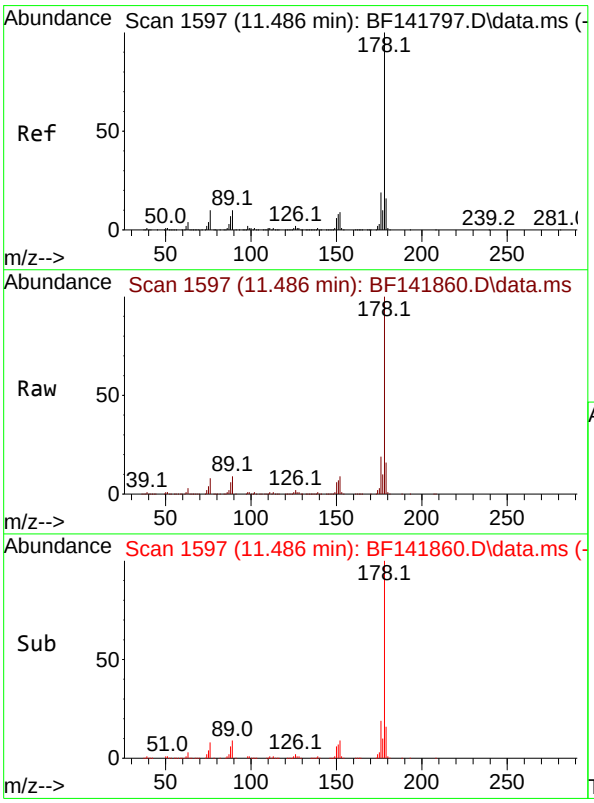
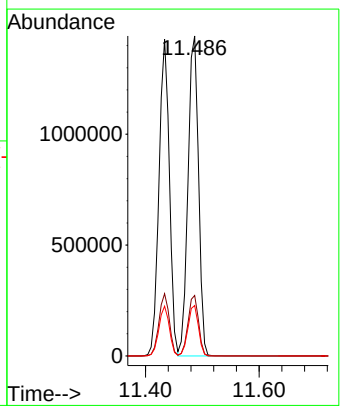


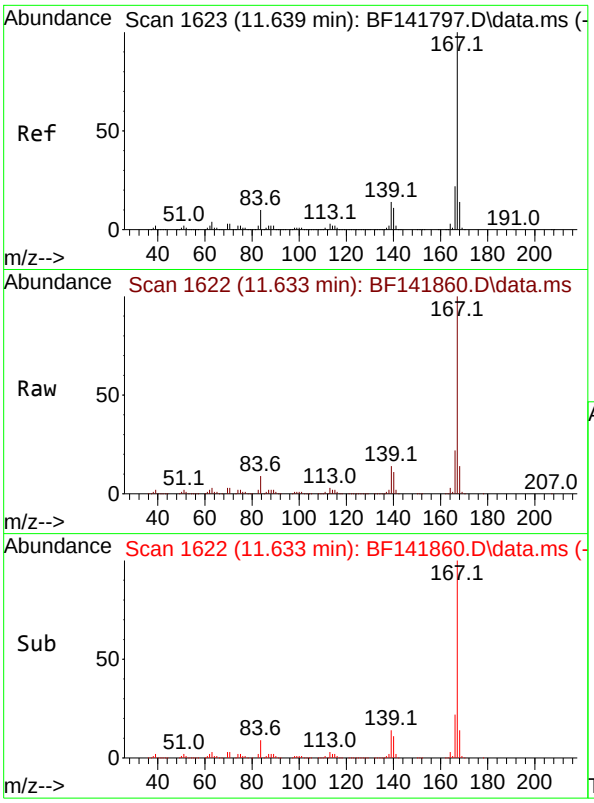


#72
Anthracene
Concen: 43.146 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:178 Resp: 1854922

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.0
179	15.8	12.8	19.2

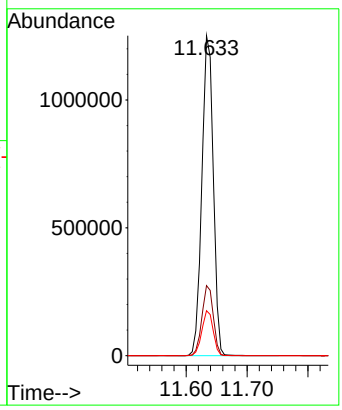




#73
Carbazole
Concen: 43.058 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:167 Resp: 163469

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.5	26.3
139	14.0	11.3	16.9



Instrument :
BNA_F
ClientSampleId :
PB166984BS

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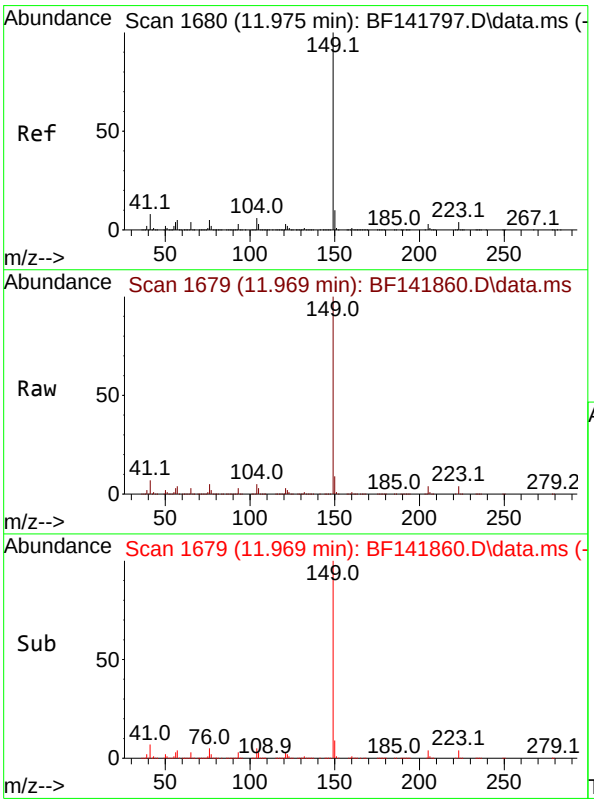
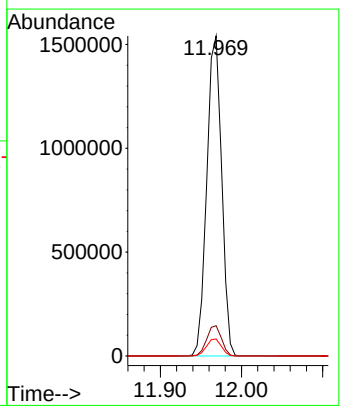
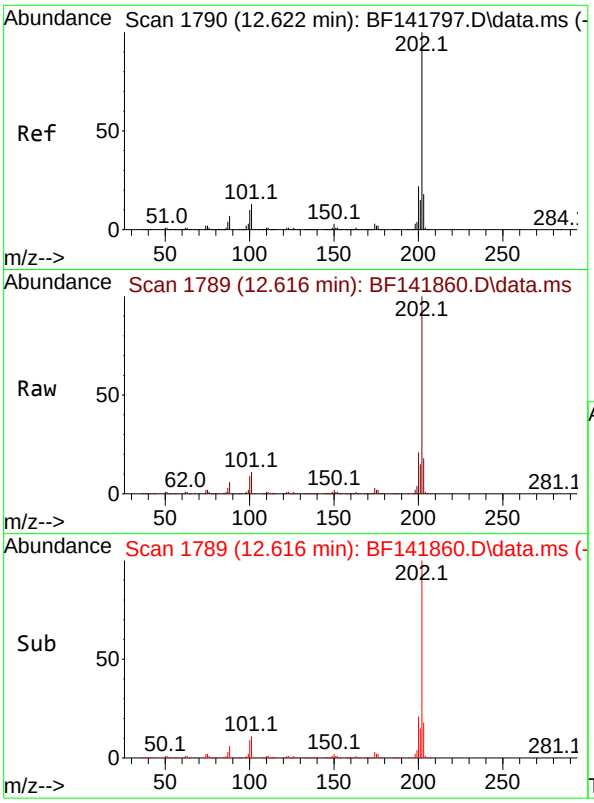


#74
Di-n-butylphthalate
Concen: 40.557 ng
RT: 11.969 min Scan# 1679
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:149 Resp: 1951706

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.7	11.5
104	5.3	4.4	6.6

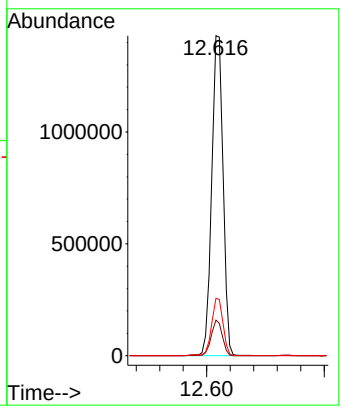




#75
Fluoranthene
Concen: 43.749 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:202 Resp: 192292

Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	32.8
203	17.9	0.0	38.0



Instrument :
BNA_F
ClientSampleId :
PB166984BS

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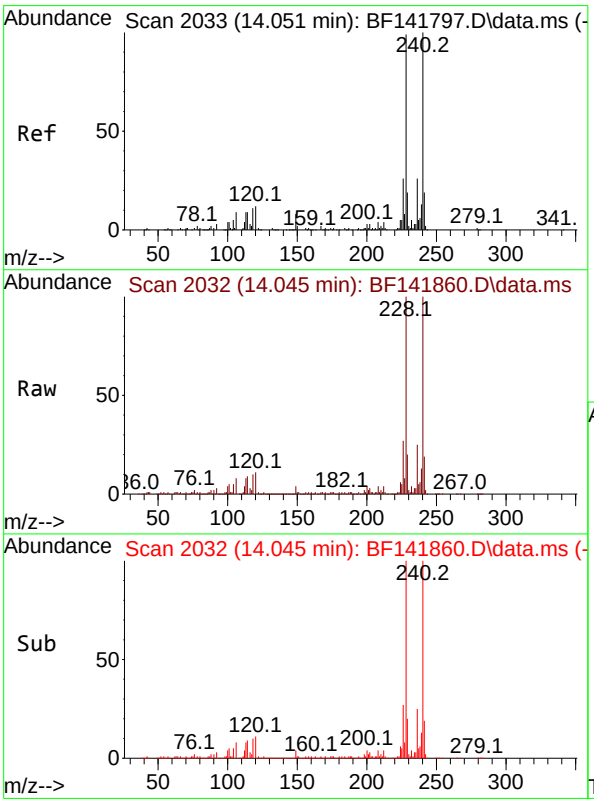
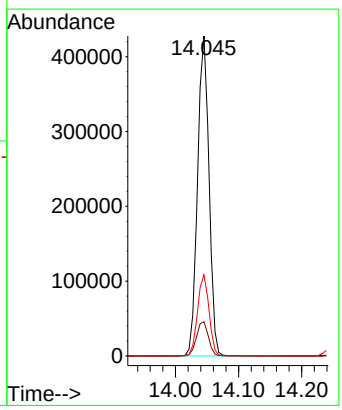
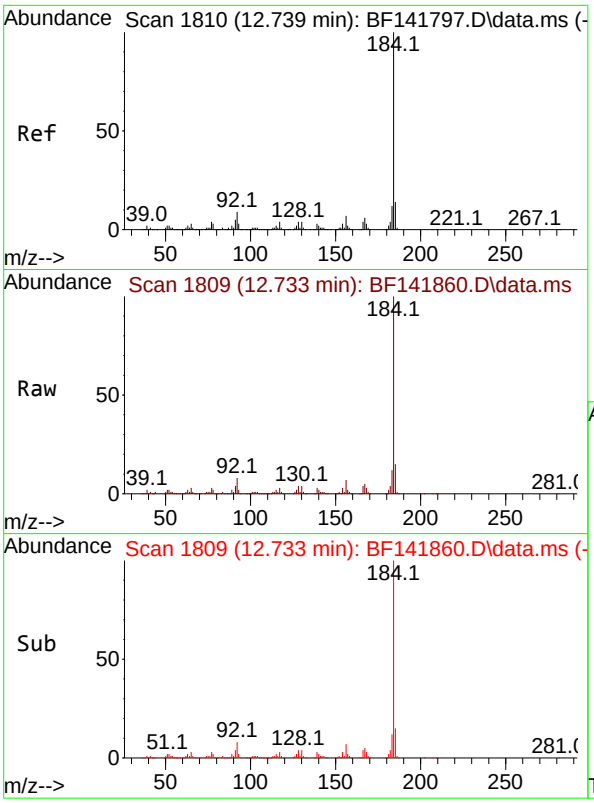


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:240 Resp: 537472

Ion	Ratio	Lower	Upper
240	100		
120	10.7	9.7	14.5
236	25.3	21.0	31.4

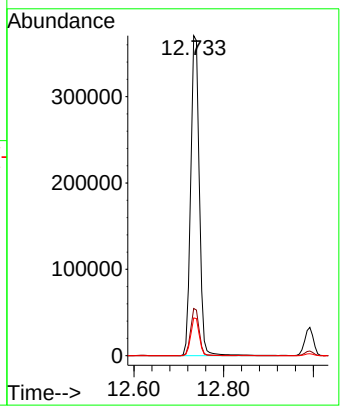




#77
Benzidine
Concen: 72.902 ng
RT: 12.733 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:184 Resp: 49316

Ion	Ratio	Lower	Upper
184	100		
185	14.7	11.6	17.4
183	11.8	9.4	14.0



Instrument :
BNA_F
ClientSampleId :
PB166984BS

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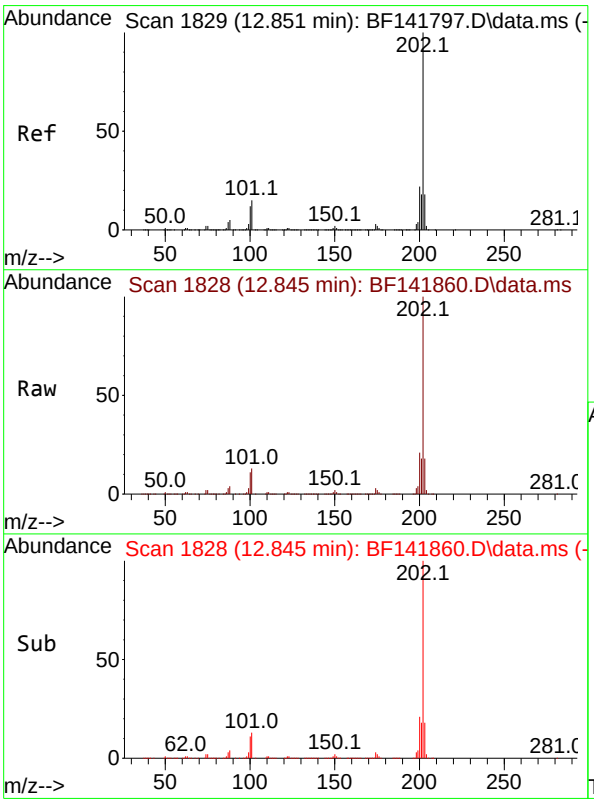
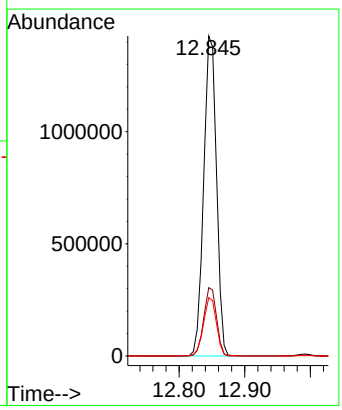
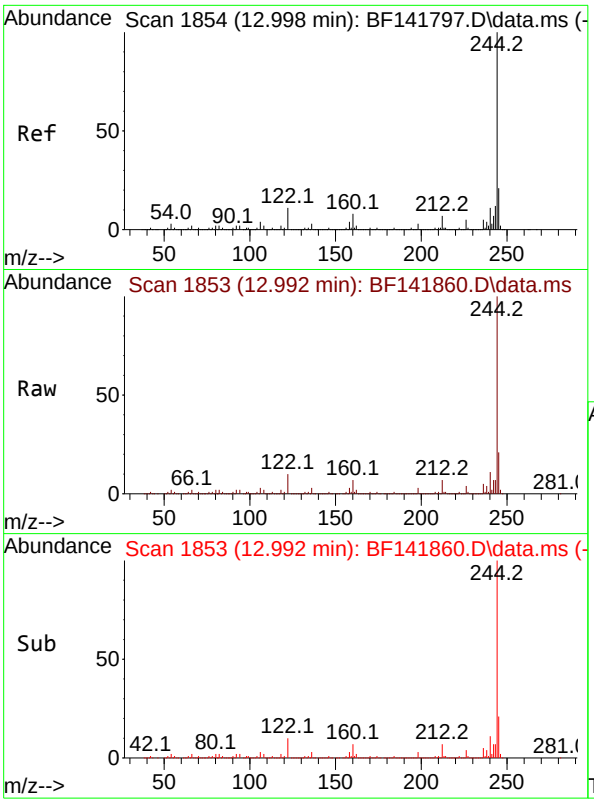


#78
Pyrene
Concen: 41.714 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:202 Resp: 1941461

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.4	26.0
203	18.2	14.6	22.0

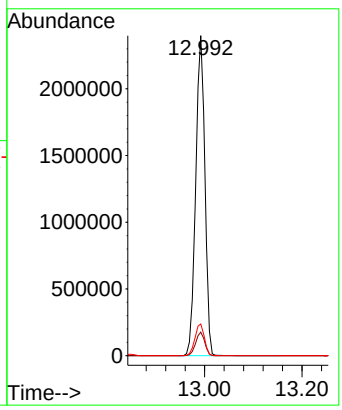




#79
Terphenyl-d14
Concen: 94.941 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:244 Resp: 315392

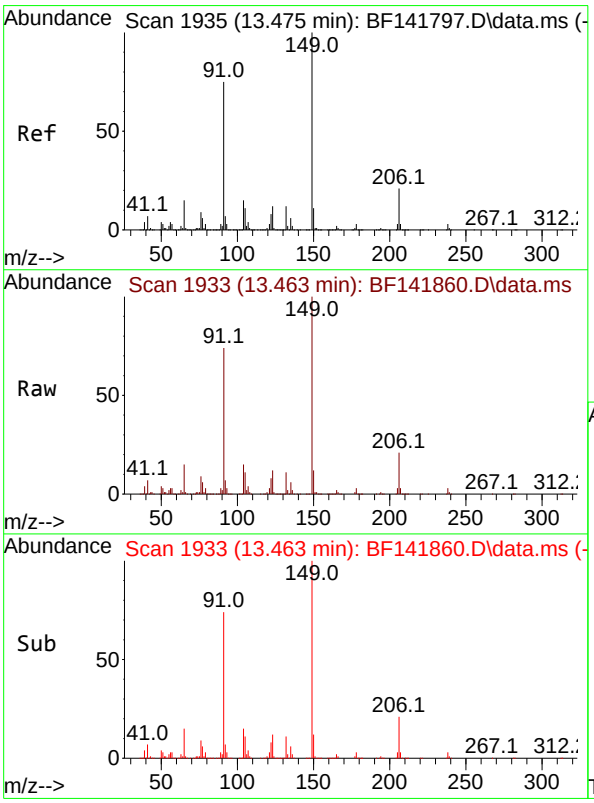
Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.0	9.0
122	9.9	9.0	13.6



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

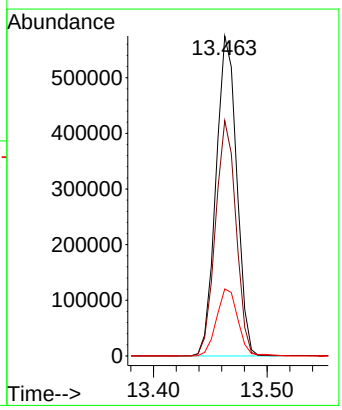
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

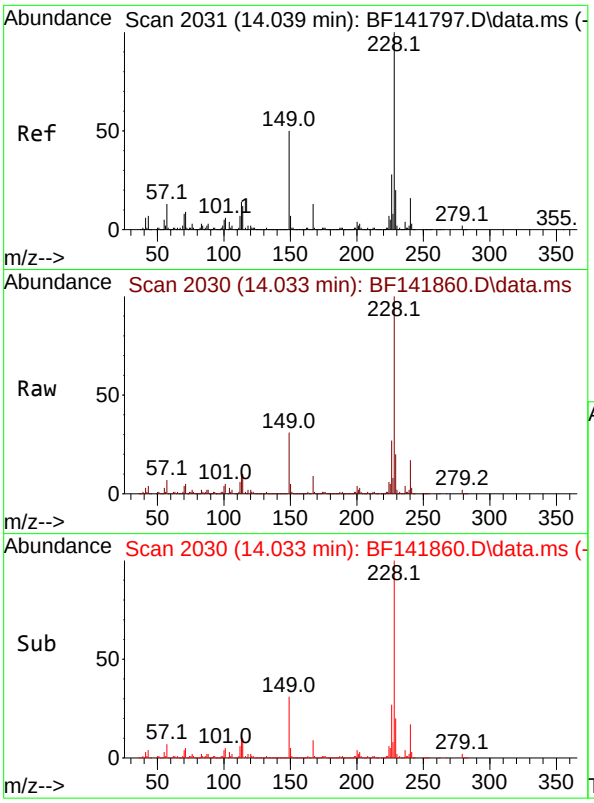


#80
Butylbenzylphthalate
Concen: 43.184 ng
RT: 13.463 min Scan# 1933
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:149 Resp: 730230

Ion	Ratio	Lower	Upper
149	100		
91	73.6	60.1	90.1
206	20.9	16.8	25.2

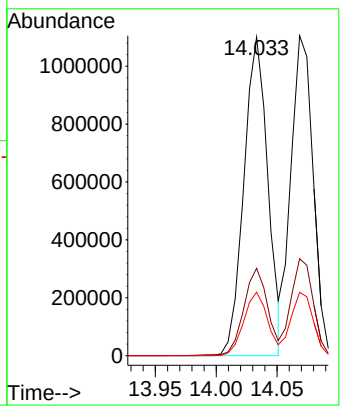




#81
Benzo(a)anthracene
Concen: 42.445 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:228 Resp: 150685

Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.1	33.1
229	19.9	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
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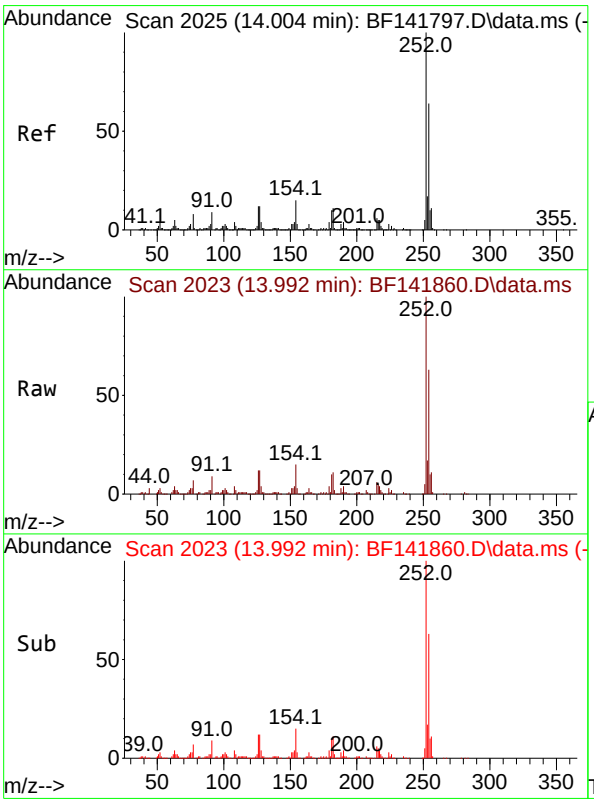
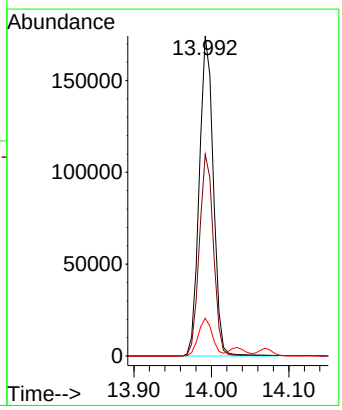
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

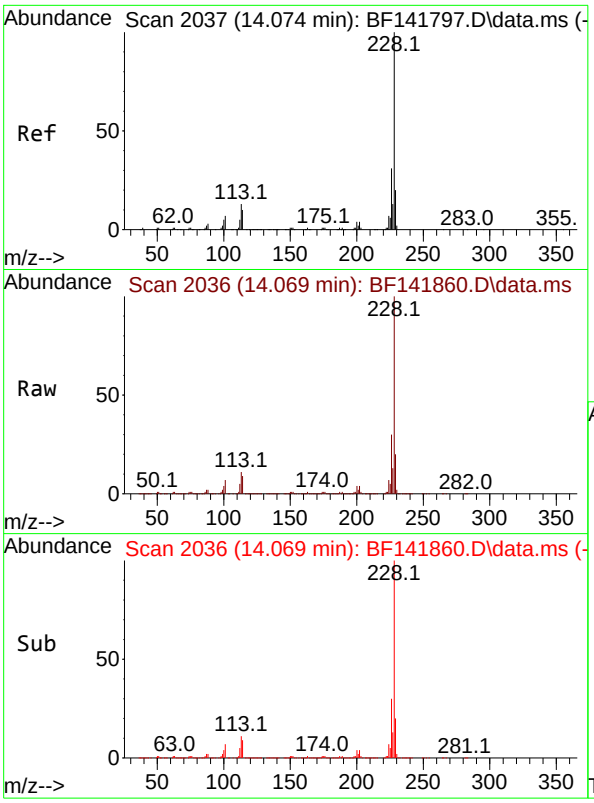


#82
3,3'-Dichlorobenzidine
Concen: 21.565 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:252 Resp: 219648

Ion	Ratio	Lower	Upper
252	100		
254	63.1	51.4	77.0
126	11.8	9.8	14.6

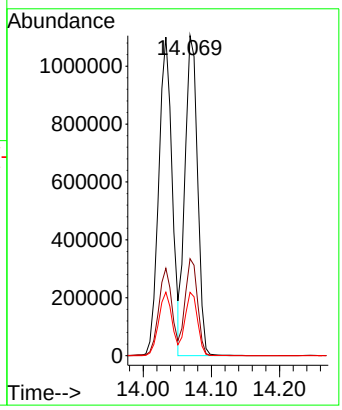




#83
Chrysene
Concen: 42.886 ng
RT: 14.069 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:228 Resp: 140346

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.6	37.0
229	19.8	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
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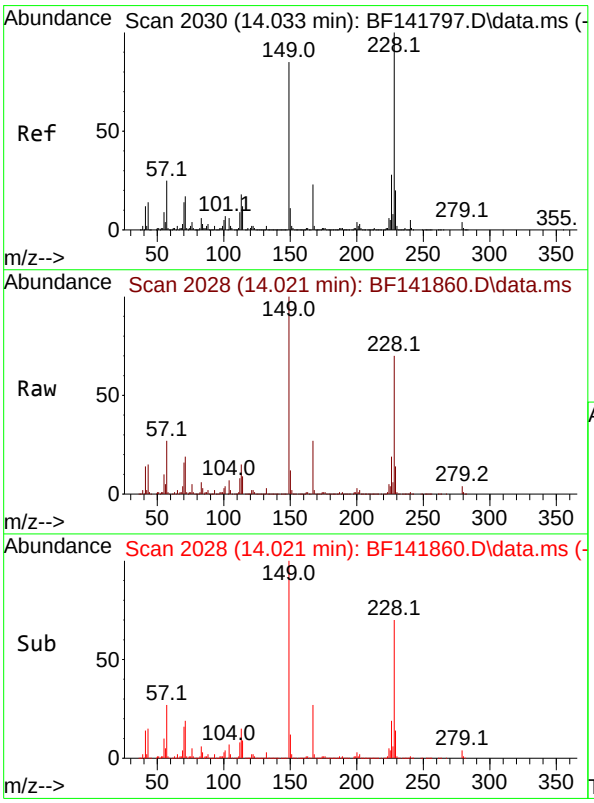
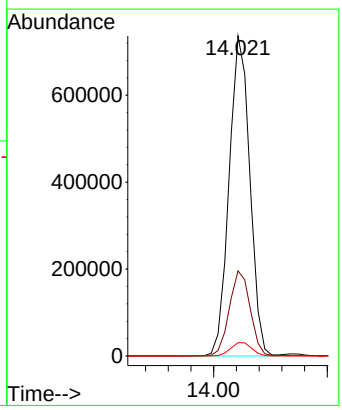
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

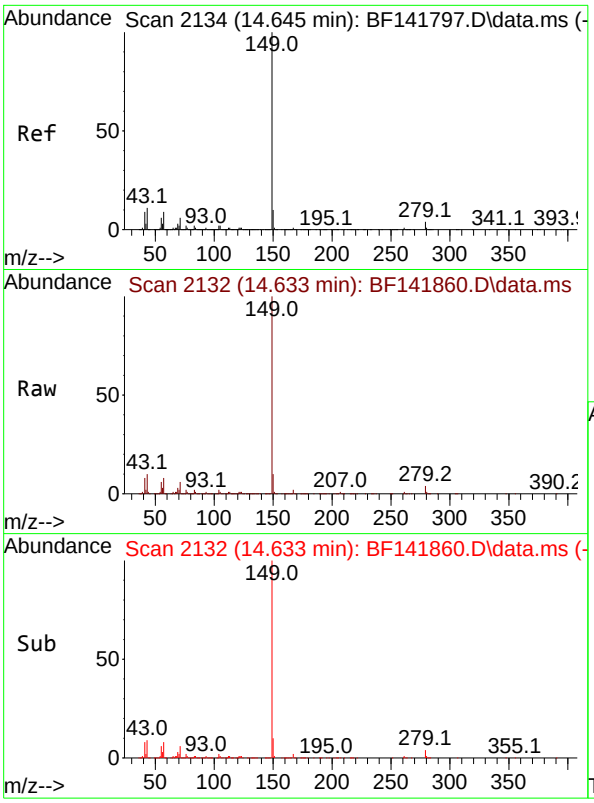


#84
Bis(2-ethylhexyl)phthalate
Concen: 44.285 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:149 Resp: 932426

Ion	Ratio	Lower	Upper
149	100		
167	26.6	21.2	31.8
279	4.1	3.3	4.9





#85
Di-n-octyl phthalate
Concen: 43.146 ng
RT: 14.633 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:149 Resp: 136003

Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.2	1.8
43	9.3	8.6	12.8

Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
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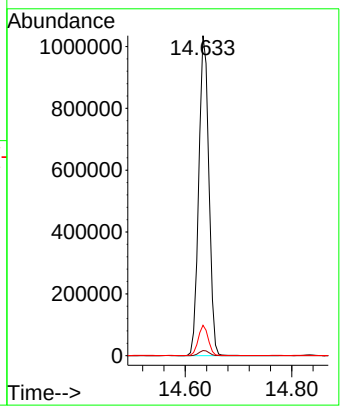
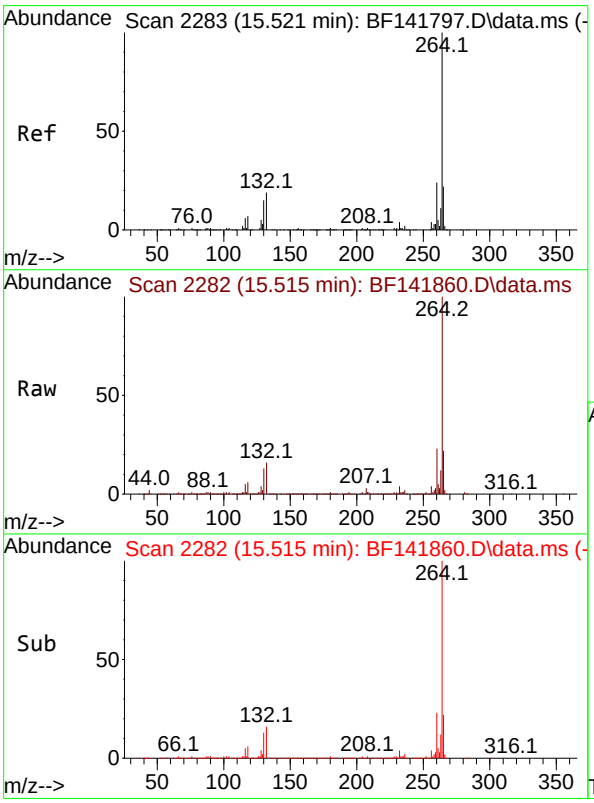
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

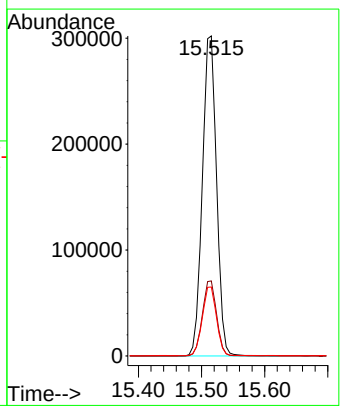


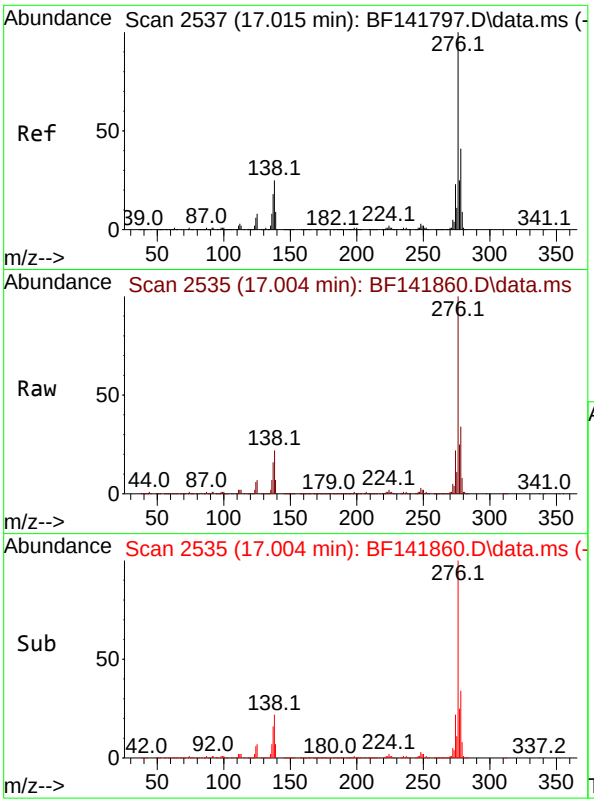


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.515 min Scan# 2282
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:264 Resp: 470320

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.9	28.3
265	21.6	17.4	26.0

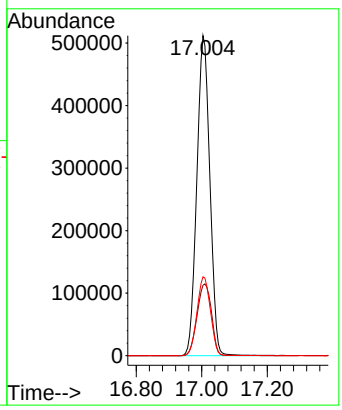




#87
Indeno(1,2,3-cd)pyrene
Concen: 47.292 ng
RT: 17.004 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:276 Resp: 141631

Ion	Ratio	Lower	Upper
276	100		
138	24.8	22.5	33.7
277	25.5	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
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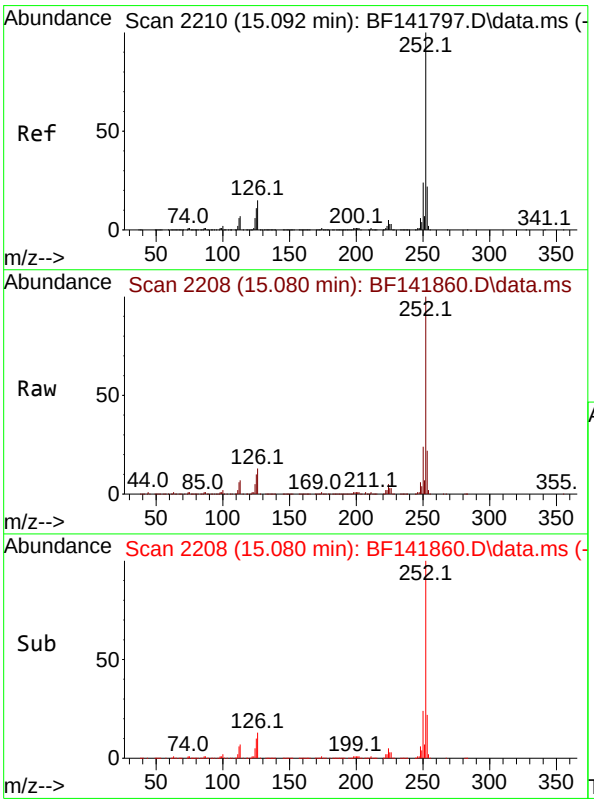
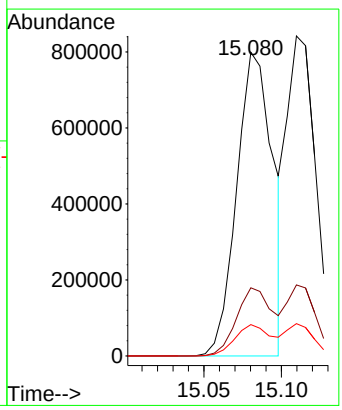
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

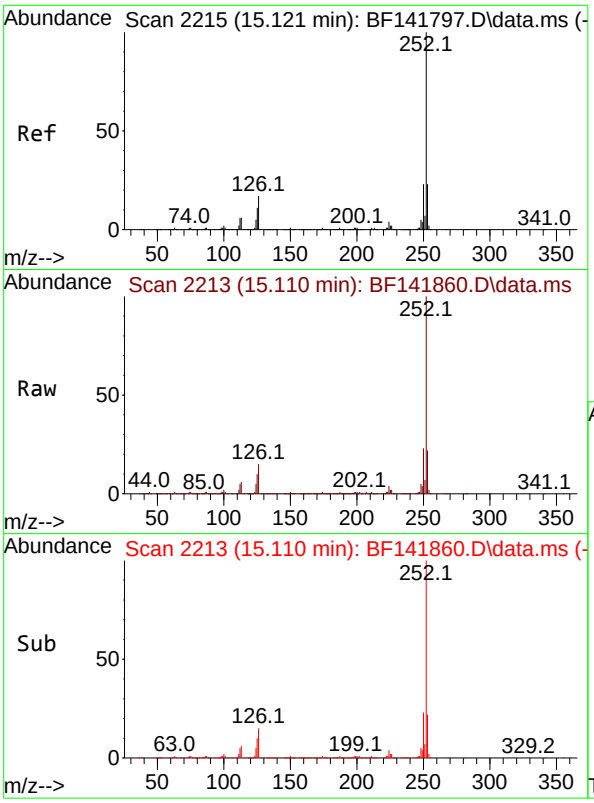


#88
Benzo(b)fluoranthene
Concen: 40.491 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:252 Resp: 1297204

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.7	26.5
125	10.3	8.6	13.0

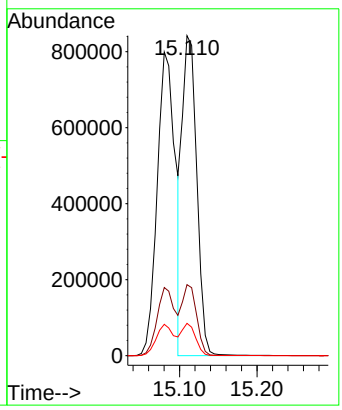




#89
Benzo(k)fluoranthene
Concen: 40.365 ng
RT: 15.110 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:252 Resp: 109913

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.8
125	10.1	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
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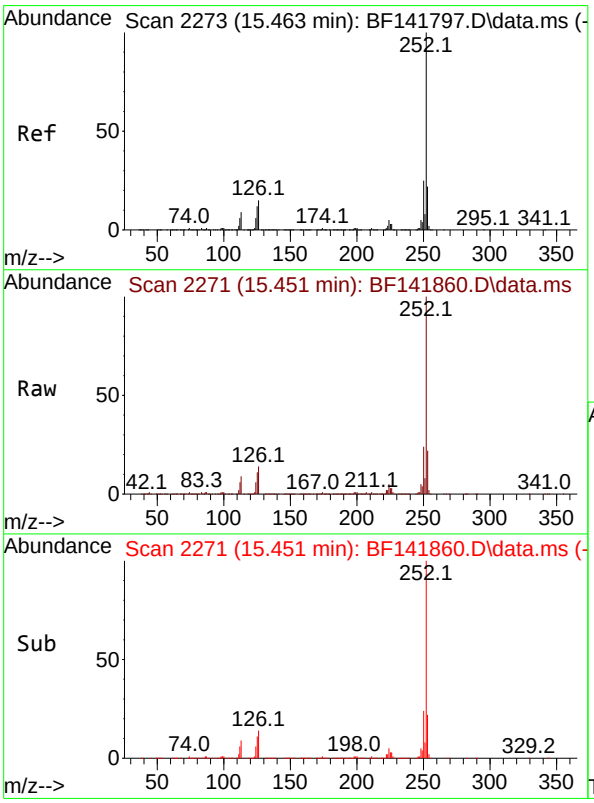
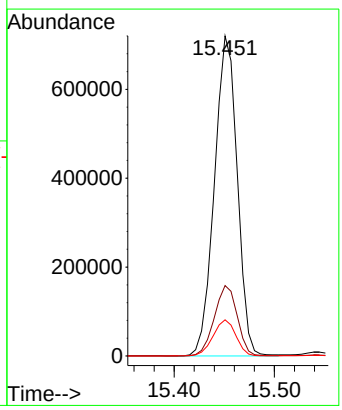
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

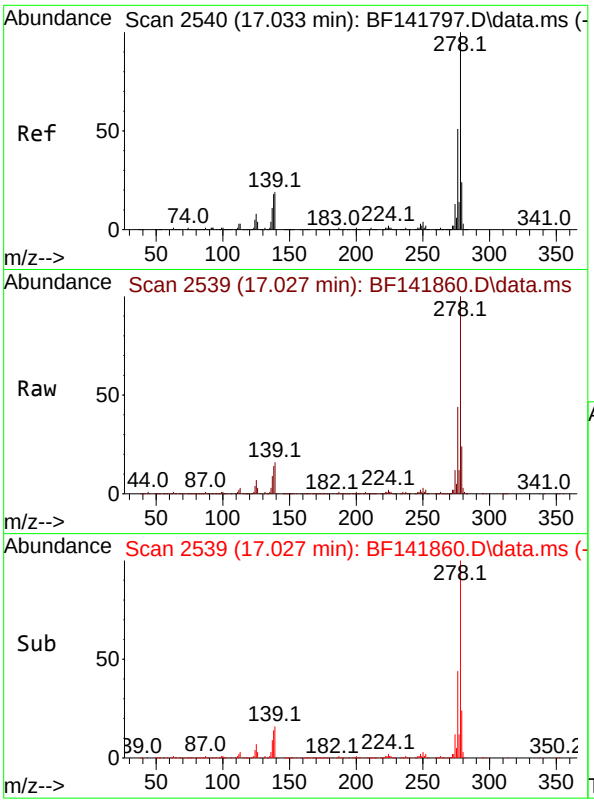


#90
Benzo(a)pyrene
Concen: 44.247 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:252 Resp: 1136844

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	11.3	9.4	14.2

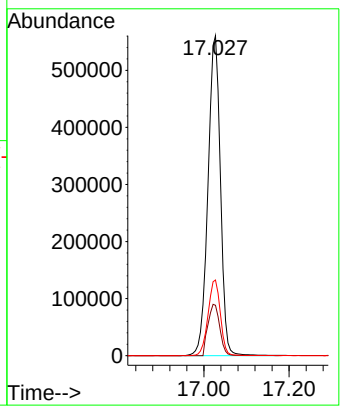




#91
Dibenzo(a,h)anthracene
Concen: 46.521 ng
RT: 17.027 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:278 Resp: 113723

Ion	Ratio	Lower	Upper
278	100		
139	15.8	14.9	22.3
279	23.7	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
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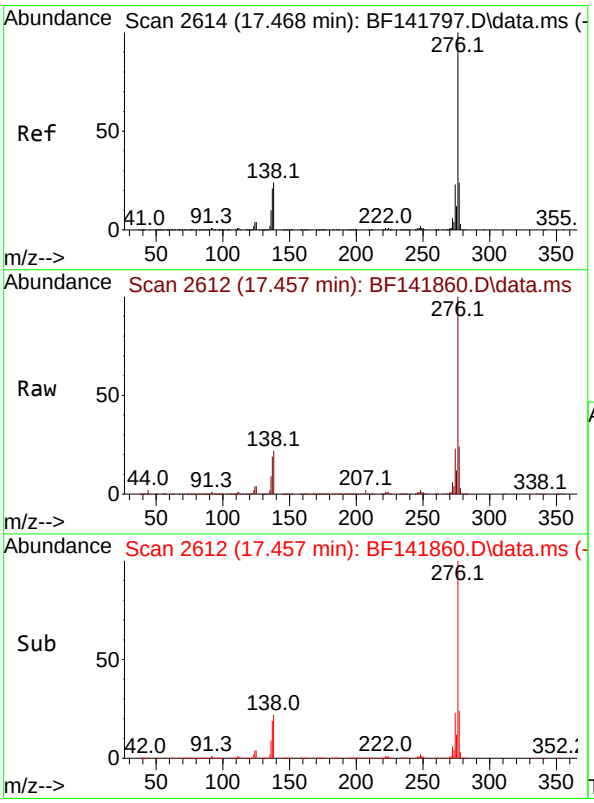
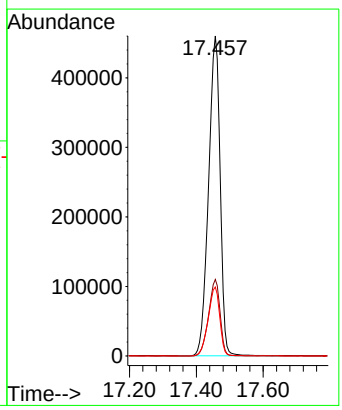
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#92
Benzo(g,h,i)perylene
Concen: 44.126 ng
RT: 17.457 min Scan# 2612
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:276 Resp: 1105086

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.4	29.0
138	21.6	19.3	28.9



Raw Data: **BF141863.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BSD	SDG No.:	Q1488
Lab Sample ID:	PB166982BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141863.D	1	03/05/25 08:35	03/06/25 12:21	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	23.1		4.00	10.0	ug/L
108-95-2	Phenol	41.6		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	41.1		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	44.8		0.71	5.00	ug/L
95-48-7	2-Methylphenol	43.2		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	35.1		1.40	5.00	ug/L
98-86-2	Acetophenone	46.8		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	42.8		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	38.5		1.50	2.50	ug/L
67-72-1	Hexachloroethane	44.7		1.00	5.00	ug/L
98-95-3	Nitrobenzene	48.5		1.30	5.00	ug/L
78-59-1	Isophorone	43.1		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	53.4		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	53.9		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	40.1		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	44.6		0.88	5.00	ug/L
91-20-3	Naphthalene	43.1		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	20.1		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	46.6		1.30	5.00	ug/L
105-60-2	Caprolactam	50.5		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	43.9		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	41.2		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	160	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	47.0		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	48.8		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	48.0		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	44.3		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	51.4		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	44.6		0.93	5.00	ug/L

Raw Data: **BF141863.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BSD	SDG No.:	Q1488
Lab Sample ID:	PB166982BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141863.D	1	03/05/25 08:35	03/06/25 12:21	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	46.3		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	51.6		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	34.7		1.40	5.00	ug/L
83-32-9	Acenaphthene	51.0		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	120	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	120	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	42.4		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	57.5		1.50	5.00	ug/L
84-66-2	Diethylphthalate	43.2		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	44.2		0.98	5.00	ug/L
86-73-7	Fluorene	44.5		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	61.0		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	59.5		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	43.0		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	43.4		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	46.8		1.10	5.00	ug/L
1912-24-9	Atrazine	63.7		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	97.3	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	45.5		0.89	5.00	ug/L
120-12-7	Anthracene	46.1		1.10	5.00	ug/L
86-74-8	Carbazole	46.4		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	42.7		1.50	5.00	ug/L
206-44-0	Fluoranthene	47.4		1.30	5.00	ug/L
129-00-0	Pyrene	42.3		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	45.7		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	29.7		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	44.6		0.94	5.00	ug/L
218-01-9	Chrysene	44.7		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	46.9		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	45.8		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	44.0		1.10	5.00	ug/L

Raw Data: **BF141863.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BSD	SDG No.:	Q1488
Lab Sample ID:	PB166982BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141863.D	1	03/05/25 08:35	03/06/25 12:21	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	45.2		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	47.5		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	45.3		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	45.0		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	41.8		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	49.2		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	39.6		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	48.7		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	128		15 (10) - 110 (139)	85%	SPK: 150
13127-88-3	Phenol-d6	122		15 (10) - 110 (134)	81%	SPK: 150
4165-60-0	Nitrobenzene-d5	109		30 (49) - 130 (133)	109%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.0		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	174	*	15 (44) - 110 (137)	116%	SPK: 150
1718-51-0	Terphenyl-d14	95.1		30 (48) - 130 (125)	95%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	219000	6.887			
1146-65-2	Naphthalene-d8	851000	8.169			
15067-26-2	Acenaphthene-d10	458000	9.922			
1517-22-2	Phenanthrene-d10	790000	11.404			
1719-03-5	Chrysene-d12	569000	14.045			
1520-96-3	Perylene-d12	469000	15.516			

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\BF030625\
Data File : BF141863.D
Acq On : 06 Mar 2025 12:21
Operator : RC/JU
Sample : PB166982BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 06 13:20:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166982BSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	218542	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	850562	20.000	ng		0.00
39) Acenaphthene-d10	9.922	164	458462	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	790298	20.000	ng		0.00
76) Chrysene-d12	14.045	240	569230	20.000	ng		0.00
86) Perylene-d12	15.516	264	468514	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	1752700	128.078	ng		0.02
7) Phenol-d6	6.510	99	2176919	122.218	ng		0.00
23) Nitrobenzene-d5	7.445	82	1444229	108.534	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	749833	174.213	ng		0.00
45) 2-Fluorobiphenyl	9.239	172	2687024	93.977	ng		0.00
79) Terphenyl-d14	12.992	244	3345532	95.090	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.799	88	245824	39.589	ng		96
3) Pyridine	3.552	79	597312	38.662	ng		96
4) n-Nitrosodimethylamine	3.499	42	308594	41.513	ng	#	98
6) Aniline	6.546	93	674037	36.400	ng		100
8) 2-Chlorophenol	6.669	128	662613	44.760	ng		95
9) Benzaldehyde	6.434	77	238789	23.047	ng		100
10) Phenol	6.522	94	792480	41.636	ng		96
11) bis(2-Chloroethyl)ether	6.622	93	596528	41.116	ng		97
12) 1,3-Dichlorobenzene	6.828	146	691448	43.615	ng		99
13) 1,4-Dichlorobenzene	6.904	146	705397	44.160	ng		99
14) 1,2-Dichlorobenzene	7.057	146	671122	44.993	ng		99
15) Benzyl Alcohol	7.022	79	591716	41.567	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	773514	35.106	ng		96
17) 2-Methylphenol	7.134	107	527893	43.202	ng		99
18) Hexachloroethane	7.398	117	267400	44.725	ng		98
19) n-Nitroso-di-n-propyla...	7.298	70	450272	38.456	ng		98
20) 3+4-Methylphenols	7.281	107	650789	42.771	ng		94
22) Acetophenone	7.293	105	970026	46.826	ng		99
24) Nitrobenzene	7.463	77	690687	48.471	ng		100
25) Isophorone	7.704	82	1232538	43.115	ng		98
26) 2-Nitrophenol	7.781	139	343487	53.396	ng		97
27) 2,4-Dimethylphenol	7.810	122	566807	53.938	ng		98
28) bis(2-Chloroethoxy)met...	7.910	93	731505	40.113	ng		100
29) 2,4-Dichlorophenol	8.016	162	540126	44.554	ng		99
30) 1,2,4-Trichlorobenzene	8.104	180	590826	44.476	ng		99
31) Naphthalene	8.187	128	1884687	43.113	ng		99
32) Benzoic acid	7.934	122	460651	51.796	ng		98
33) 4-Chloroaniline	8.234	127	321805	20.077	ng		98
34) Hexachlorobutadiene	8.304	225	384615	46.592	ng		98
35) Caprolactam	8.598	113	188248m	50.476	ng		
36) 4-Chloro-3-methylphenol	8.710	107	591369	43.912	ng		98
37) 2-Methylnaphthalene	8.881	142	1181958	41.221	ng		99
38) 1-Methylnaphthalene	8.975	142	1150355	41.811	ng		99
40) 1,2,4,5-Tetrachloroben...	9.045	216	651413	49.197	ng		99
41) Hexachlorocyclopentadiene	9.034	237	859046	155.461	ng		99
43) 2,4,6-Trichlorophenol	9.151	196	401927	46.992	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141863.D
Acq On : 06 Mar 2025 12:21
Operator : RC/JU
Sample : PB166982BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 06 13:20:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166982BSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	413188	48.786	ng		98
46) 1,1'-Biphenyl	9.339	154	1676041	48.029	ng		99
47) 2-Chloronaphthalene	9.369	162	1141918	44.336	ng		99
48) 2-Nitroaniline	9.457	65	364440	51.359	ng		97
49) Acenaphthylene	9.781	152	1786900	46.273	ng		99
50) Dimethylphthalate	9.639	163	1369183	44.596	ng		100
51) 2,6-Dinitrotoluene	9.704	165	304076	51.550	ng		92
52) Acenaphthene	9.957	154	1328050	50.968	ng		99
53) 3-Nitroaniline	9.869	138	211617	34.701	ng	#	93
54) 2,4-Dinitrophenol	9.975	184	367510	117.425	ng	#	1
55) Dibenzofuran	10.128	168	1607693	42.391	ng		100
56) 4-Nitrophenol	10.028	139	553259	122.009	ng		95
57) 2,4-Dinitrotoluene	10.104	165	417704	57.474	ng		96
58) Fluorene	10.469	166	1265412	44.544	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	358697	48.696	ng		99
60) Diethylphthalate	10.345	149	1328398	43.160	ng		100
61) 4-Chlorophenyl-phenyle...	10.463	204	629150	44.202	ng		99
62) 4-Nitroaniline	10.486	138	319616	60.958	ng		98
63) Azobenzene	10.622	77	1289983	39.805	ng		98
65) 4,6-Dinitro-2-methylph...	10.510	198	230269	59.526	ng		94
66) n-Nitrosodiphenylamine	10.581	169	1115654	42.991	ng		99
67) 4-Bromophenyl-phenylether	10.951	248	400867	43.426	ng		98
68) Hexachlorobenzene	11.016	284	455692	46.749	ng		98
69) Atrazine	11.104	200	454566	63.698	ng		99
70) Pentachlorophenol	11.210	266	601294	97.260	ng		100
71) Phenanthrene	11.433	178	1923192	45.494	ng		99
72) Anthracene	11.486	178	1952460	46.084	ng		100
73) Carbazole	11.633	167	1736199	46.406	ng		100
74) Di-n-butylphthalate	11.969	149	2025906	42.719	ng		100
75) Fluoranthene	12.616	202	2053372	47.405	ng		98
77) Benzidine	12.739	184	799850	111.640	ng		100
78) Pyrene	12.845	202	2085318	42.306	ng		100
80) Butylbenzylphthalate	13.463	149	818517	45.705	ng		98
81) Benzo(a)anthracene	14.033	228	1676262	44.583	ng		100
82) 3,3'-Dichlorobenzidine	13.992	252	320647	29.725	ng		99
83) Chrysene	14.069	228	1549956	44.720	ng		99
84) Bis(2-ethylhexyl)phtha...	14.022	149	1045650	46.892	ng		99
85) Di-n-octyl phthalate	14.633	149	1528127	45.774	ng		96
87) Indeno(1,2,3-cd)pyrene	17.004	276	1350529	45.269	ng		97
88) Benzo(b)fluoranthene	15.080	252	1402993	43.962	ng		100
89) Benzo(k)fluoranthene	15.116	252	1224702	45.150	ng		98
90) Benzo(a)pyrene	15.451	252	1215083	47.474	ng		99
91) Dibenzo(a,h)anthracene	17.021	278	1095175	44.973	ng		97
92) Benzo(g,h,i)perylene	17.457	276	1042057	41.770	ng		97

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

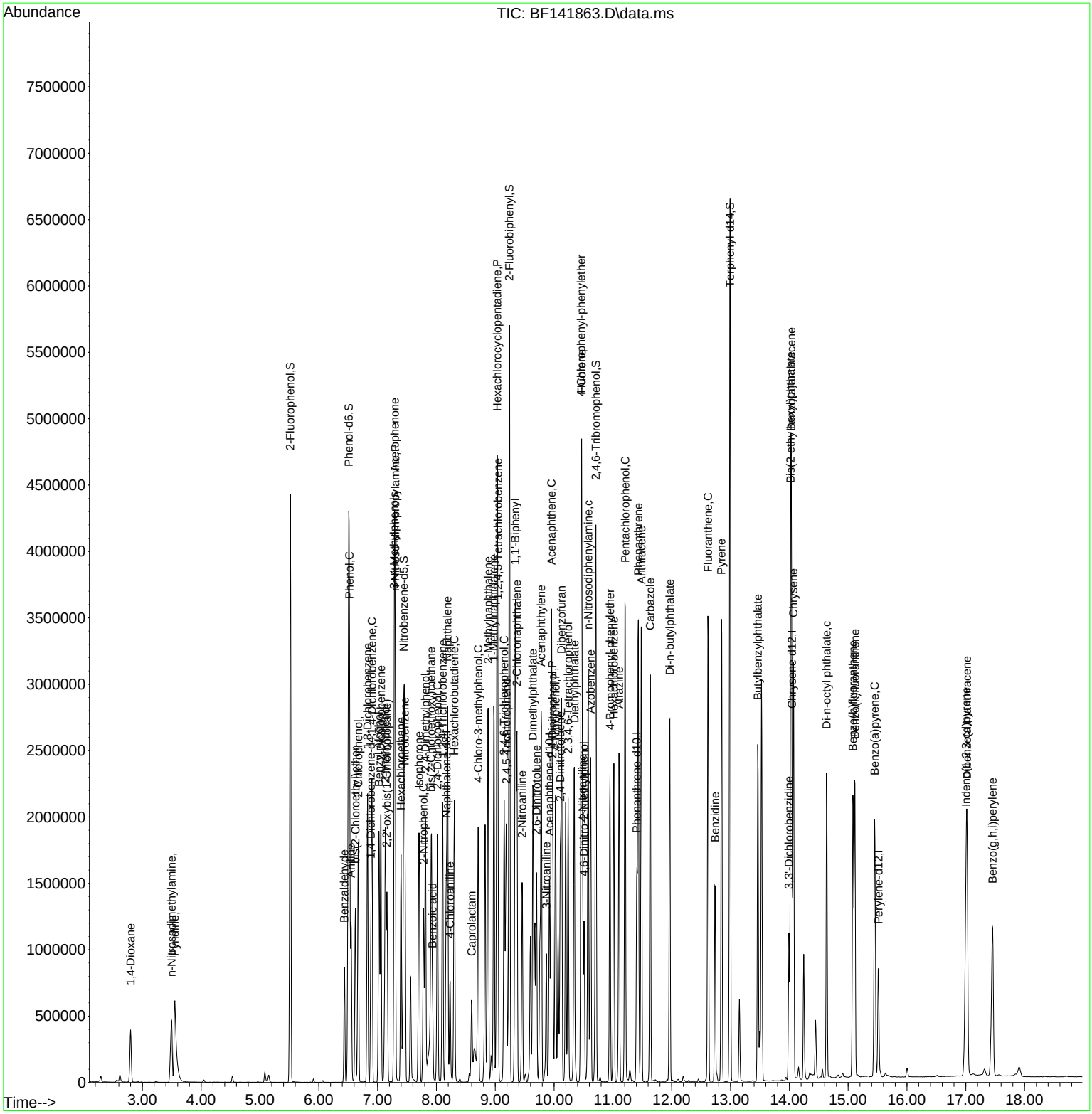
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141863.D
Acq On : 06 Mar 2025 12:21
Operator : RC/JU
Sample : PB166982BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

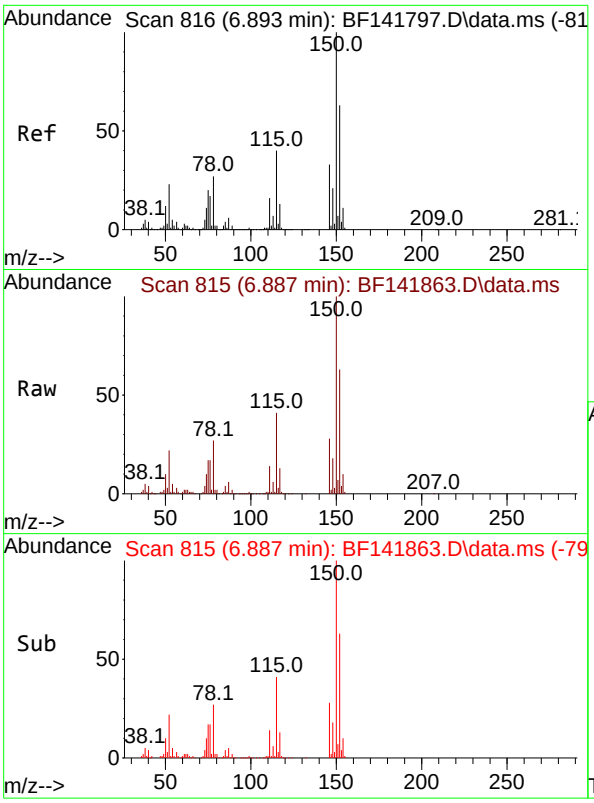
Quant Time: Mar 06 13:20:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166982BSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

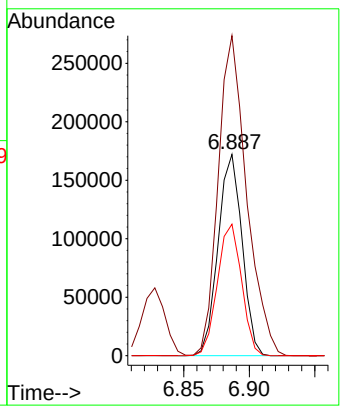




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:152 Resp: 21854

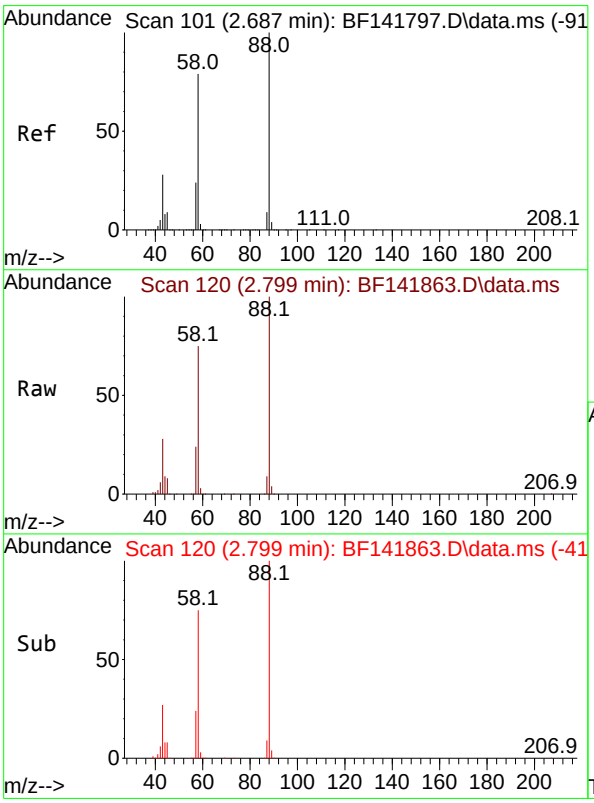
Ion	Ratio	Lower	Upper
152	100		
150	159.0	127.5	191.3
115	65.3	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
PB166982BSD

Manual Integrations
APPROVED

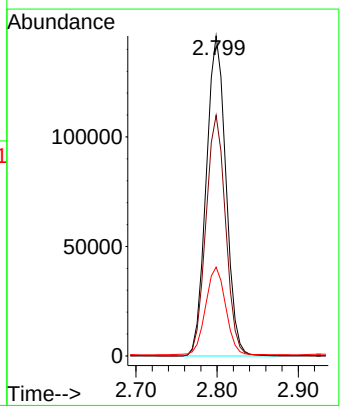
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

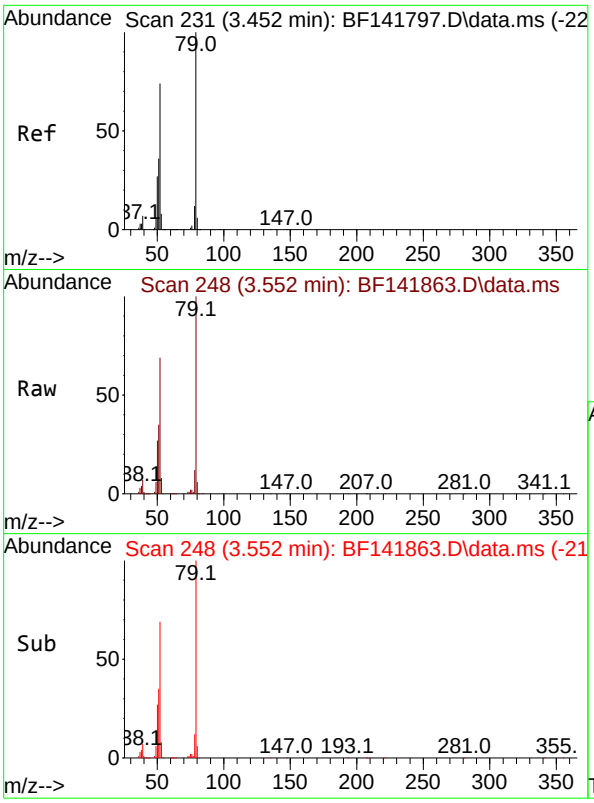


#2
1,4-Dioxane
Concen: 39.589 ng
RT: 2.799 min Scan# 120
Delta R.T. 0.112 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion: 88 Resp: 245824

Ion	Ratio	Lower	Upper
88	100		
58	75.3	63.9	95.9
43	28.0	23.0	34.6

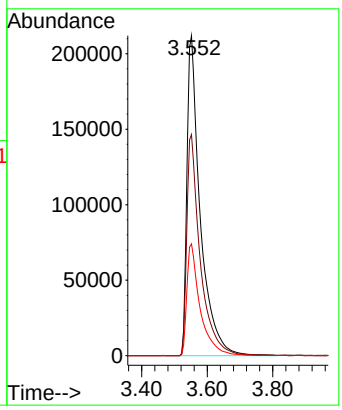




#3
Pyridine
Concen: 38.662 ng
RT: 3.552 min Scan# 24
Delta R.T. 0.100 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion: 79 Resp: 59731

Ion	Ratio	Lower	Upper
79	100		
52	69.1	59.0	88.4
51	35.0	29.0	43.4



Instrument :
BNA_F
ClientSampleId :
PB166982BSD

Manual Integrations
APPROVED

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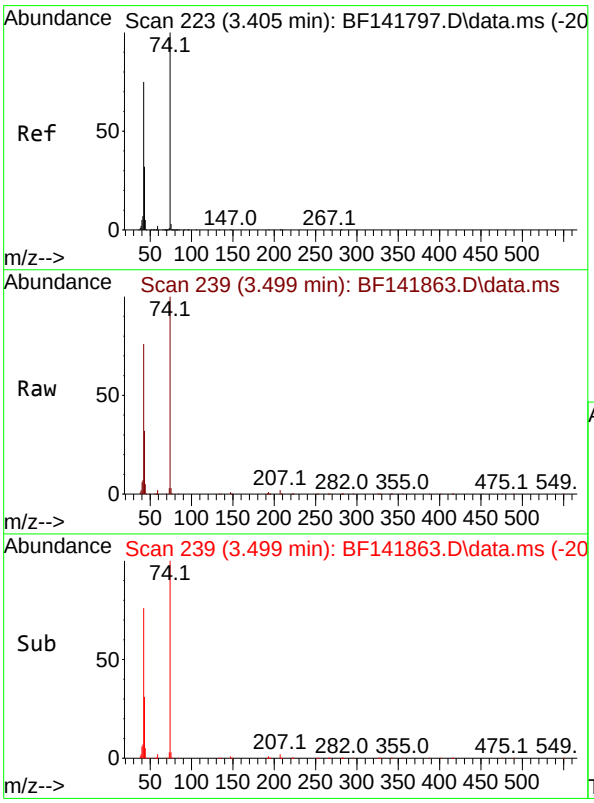
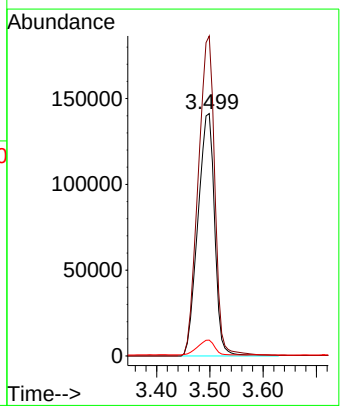
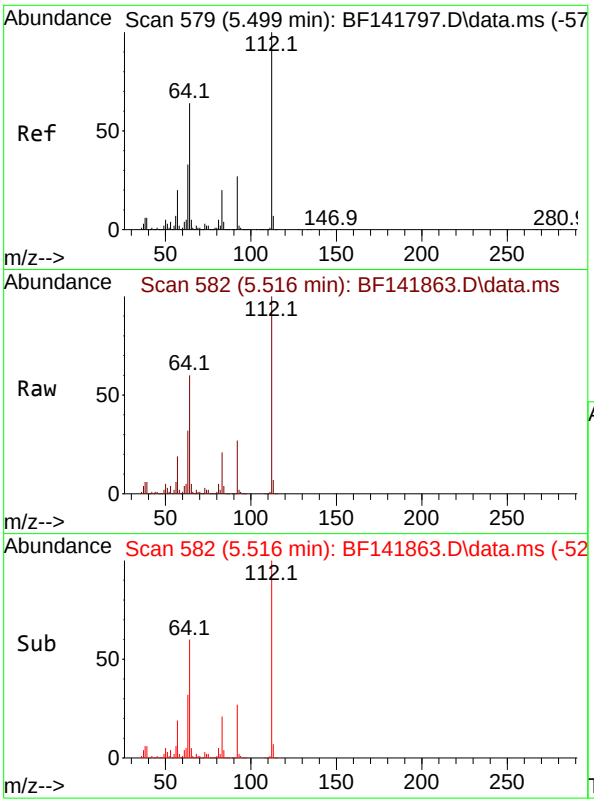


#4
n-Nitrosodimethylamine
Concen: 41.513 ng
RT: 3.499 min Scan# 239
Delta R.T. 0.094 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion: 42 Resp: 308594

Ion	Ratio	Lower	Upper
42	100		
74	132.0	107.1	160.7
44	6.5	6.6	9.8#

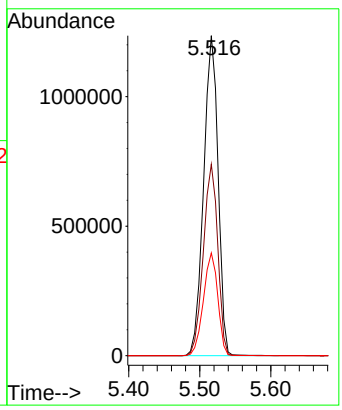




#5
2-Fluorophenol
Concen: 128.078 ng
RT: 5.516 min Scan# 5
Delta R.T. 0.018 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:112 Resp: 175270

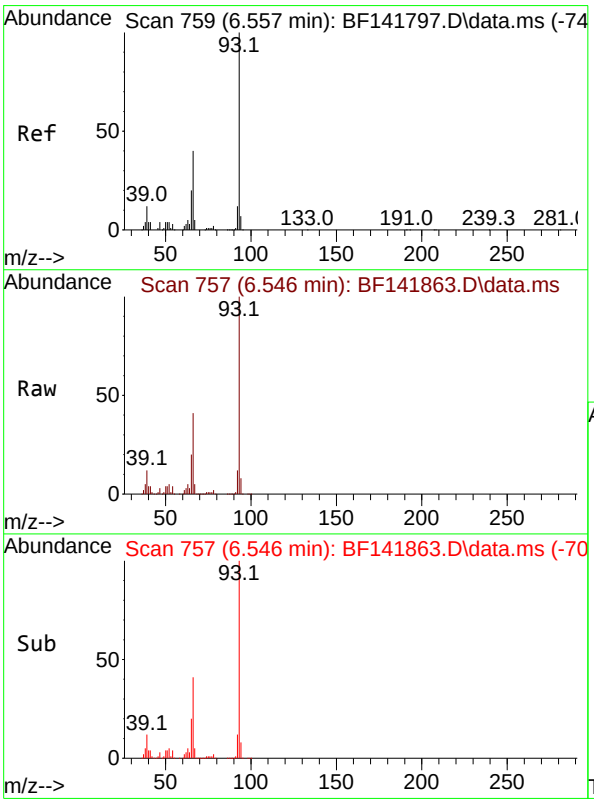
Ion	Ratio	Lower	Upper
112	100		
64	59.8	51.3	76.9
63	32.1	26.2	39.4



Instrument :
BNA_F
ClientSampleId :
PB166982BSD

Manual Integrations
APPROVED

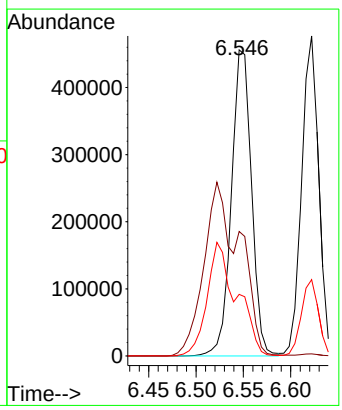
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

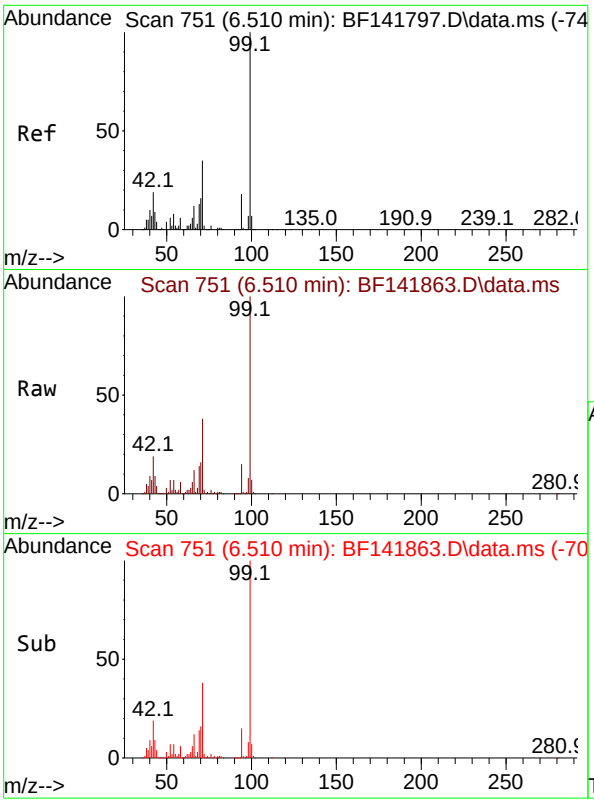


#6
Aniline
Concen: 36.400 ng
RT: 6.546 min Scan# 757
Delta R.T. -0.012 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion: 93 Resp: 674037

Ion	Ratio	Lower	Upper
93	100		
66	40.7	32.3	48.5
65	20.2	15.9	23.9

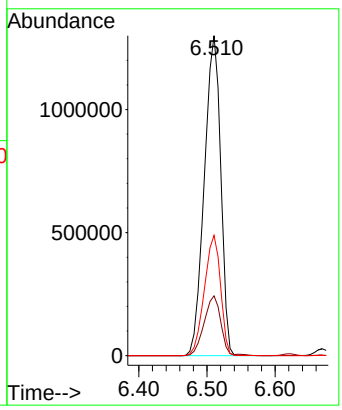




#7
Phenol-d6
Concen: 122.218 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion: 99 Resp: 217691

Ion	Ratio	Lower	Upper
99	100		
42	18.7	15.2	22.8
71	37.6	28.2	42.2



Instrument :
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ClientSampleId :
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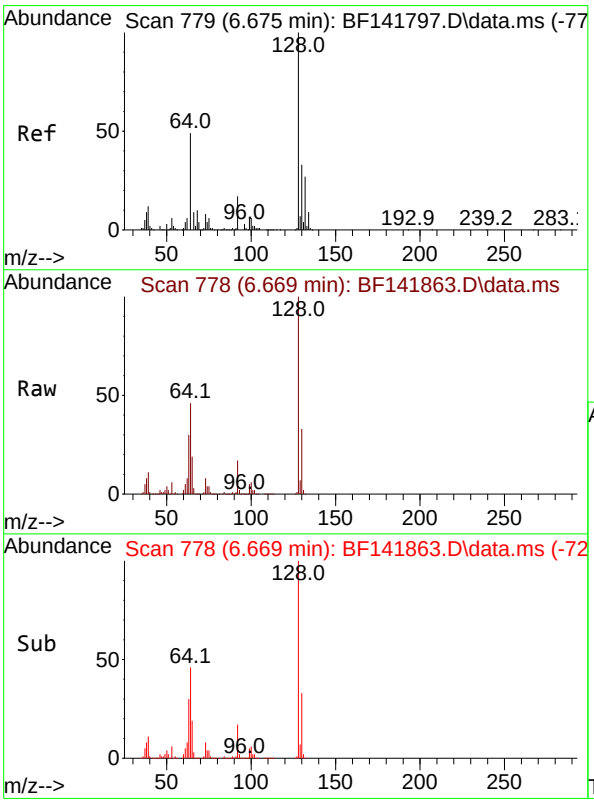
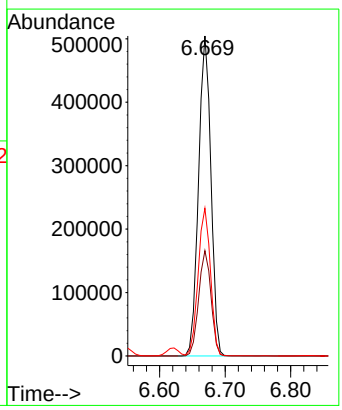
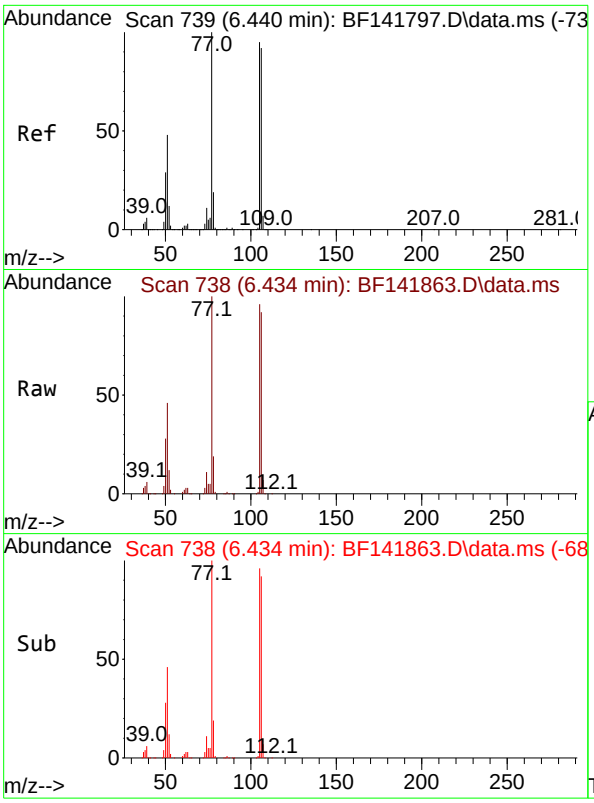


#8
2-Chlorophenol
Concen: 44.760 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:128 Resp: 662613

Ion	Ratio	Lower	Upper
128	100		
130	32.9	12.6	52.6
64	46.2	31.1	71.1

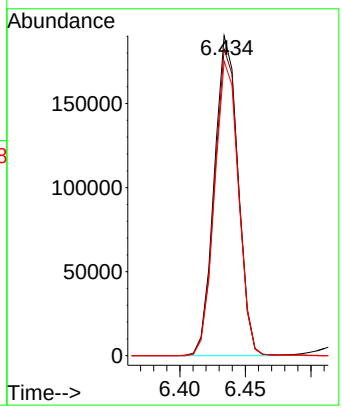




#9
Benzaldehyde
Concen: 23.047 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion: 77 Resp: 23878

Ion	Ratio	Lower	Upper
77	100		
105	95.8	75.3	115.3
106	92.1	72.3	112.3



Instrument :
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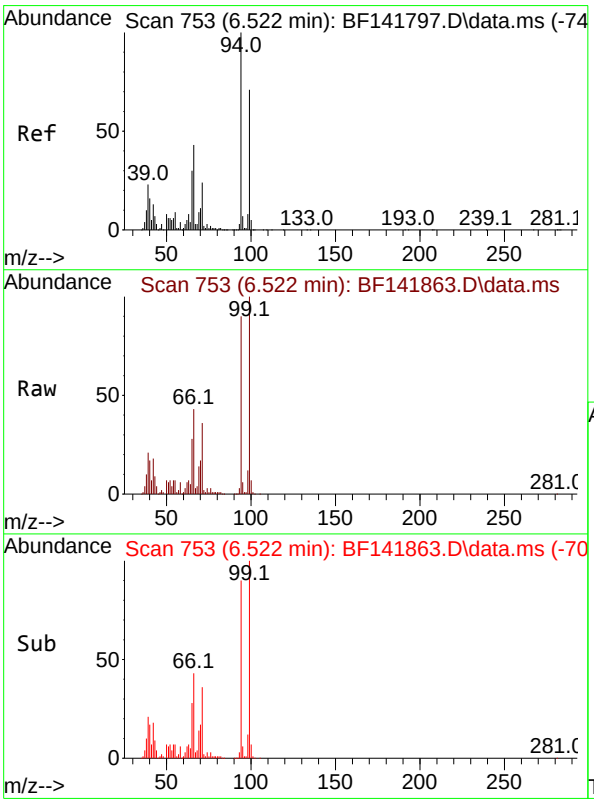
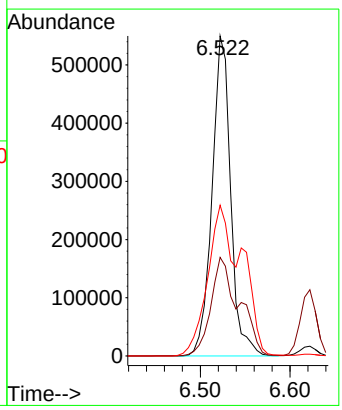
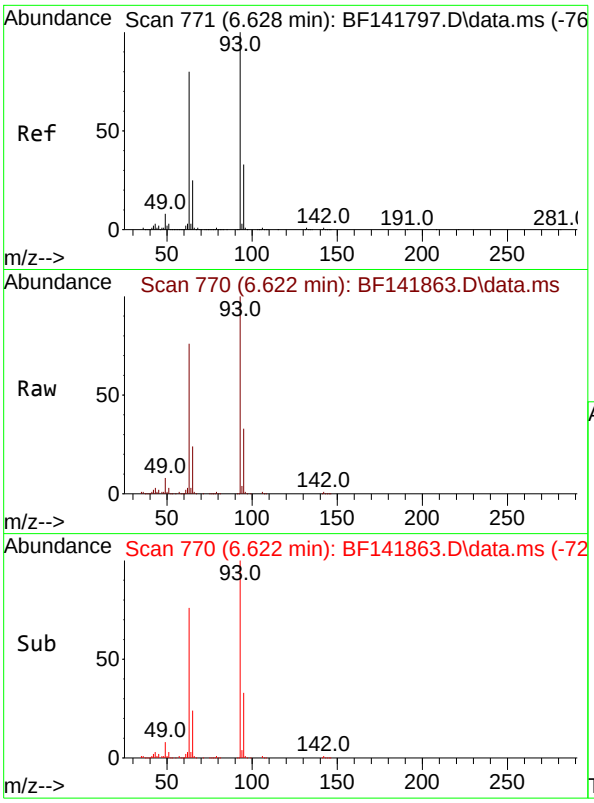


#10
Phenol
Concen: 41.636 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.000 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion: 94 Resp: 792480

Ion	Ratio	Lower	Upper
94	100		
65	30.8	10.2	50.2
66	47.1	23.2	63.2

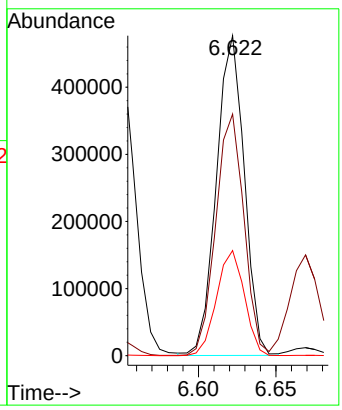




#11
bis(2-Chloroethyl)ether
Concen: 41.116 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion: 93 Resp: 59652

Ion	Ratio	Lower	Upper
93	100		
63	75.5	59.3	99.3
95	32.9	13.2	53.2



Instrument :
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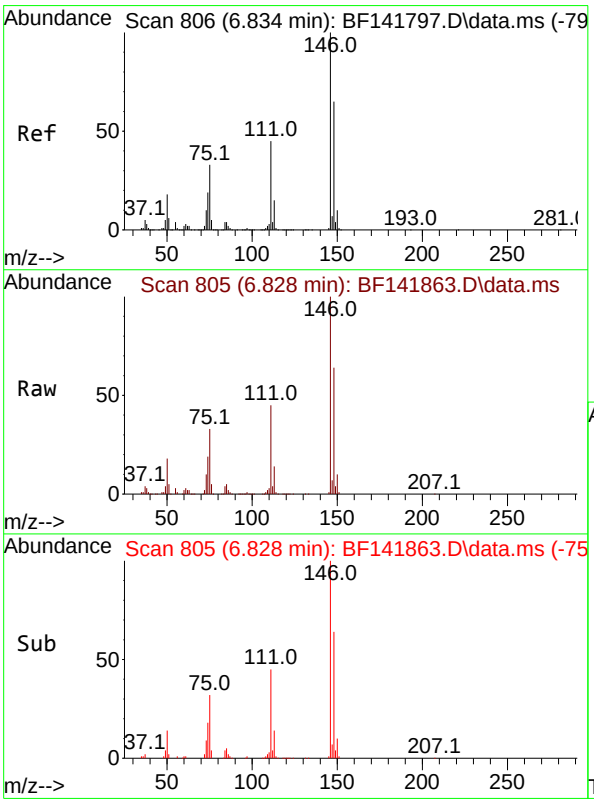
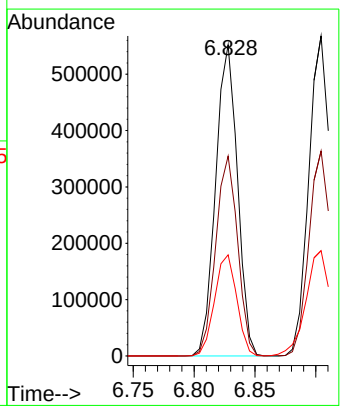
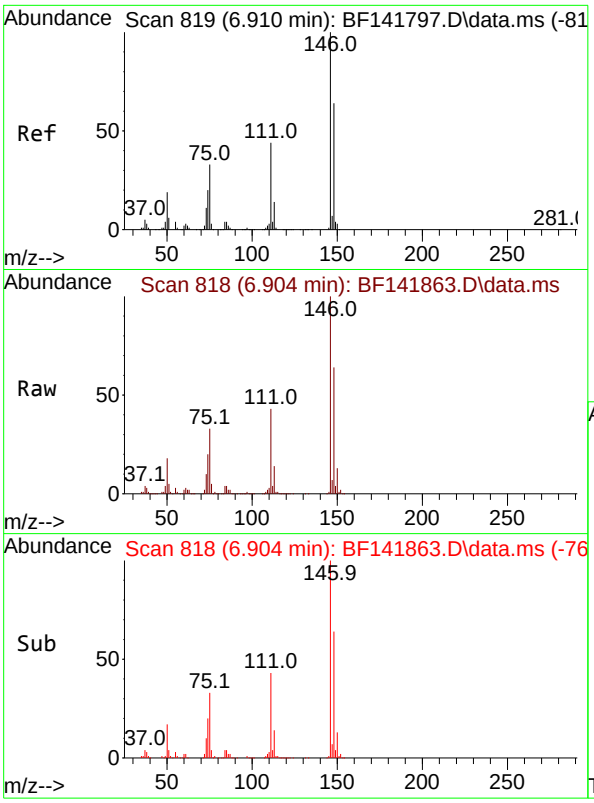


#12
1,3-Dichlorobenzene
Concen: 43.615 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:146 Resp: 691448

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.8	77.6
75	32.5	26.2	39.4

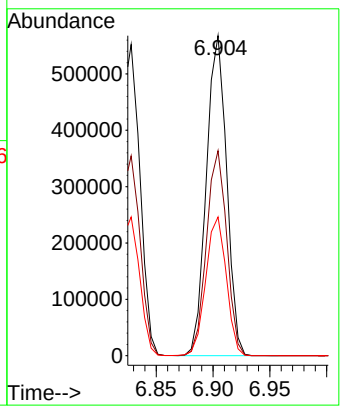




#13
1,4-Dichlorobenzene
Concen: 44.160 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:146 Resp: 70539

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.4	77.2
111	43.4	35.5	53.3



Instrument :
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ClientSampleId :
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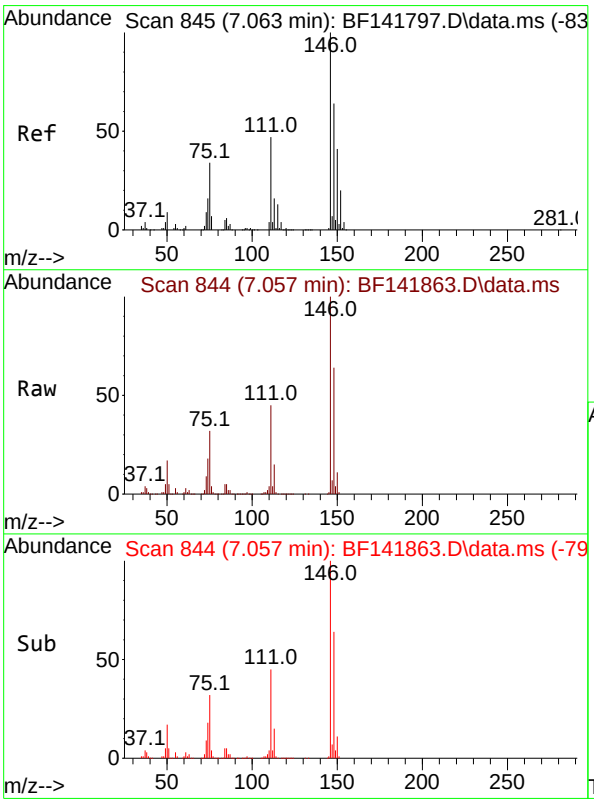
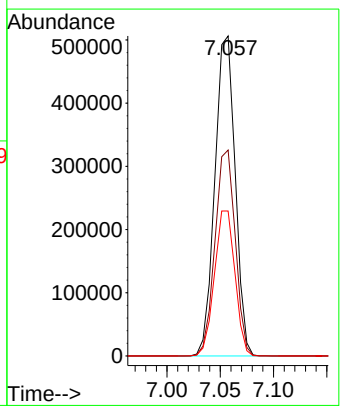
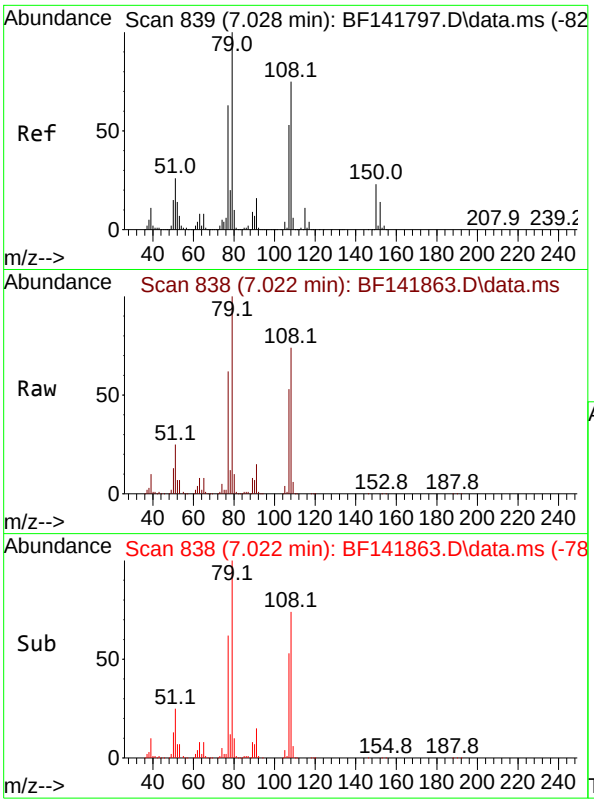


#14
1,2-Dichlorobenzene
Concen: 44.993 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:146 Resp: 671122

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.2	76.8
111	45.3	37.8	56.6

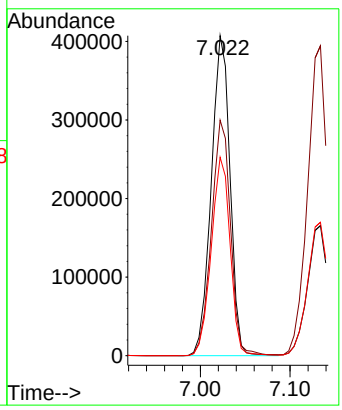




#15
Benzyl Alcohol
Concen: 41.567 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion: 79 Resp: 59171

Ion	Ratio	Lower	Upper
79	100		
108	73.6	60.2	90.2
77	62.0	50.2	75.2



Instrument :
BNA_F
ClientSampleId :
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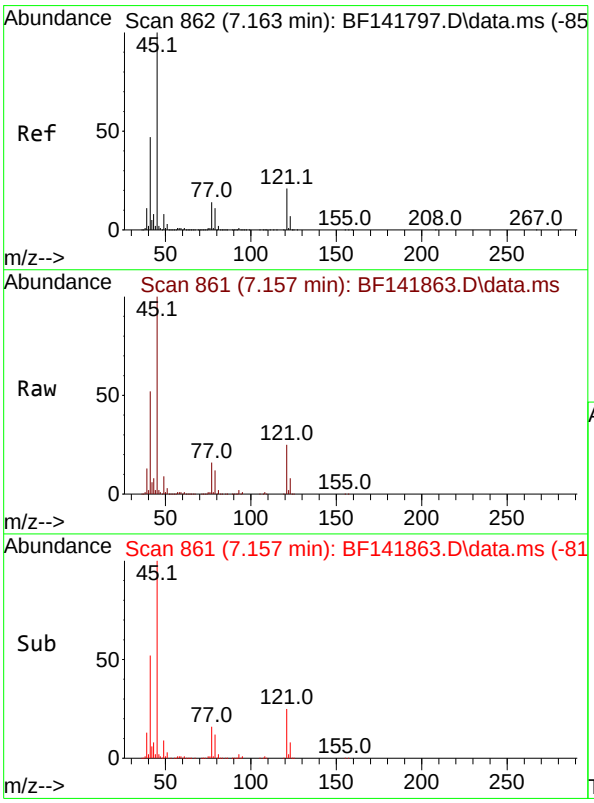
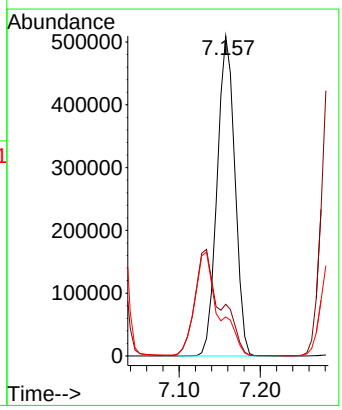
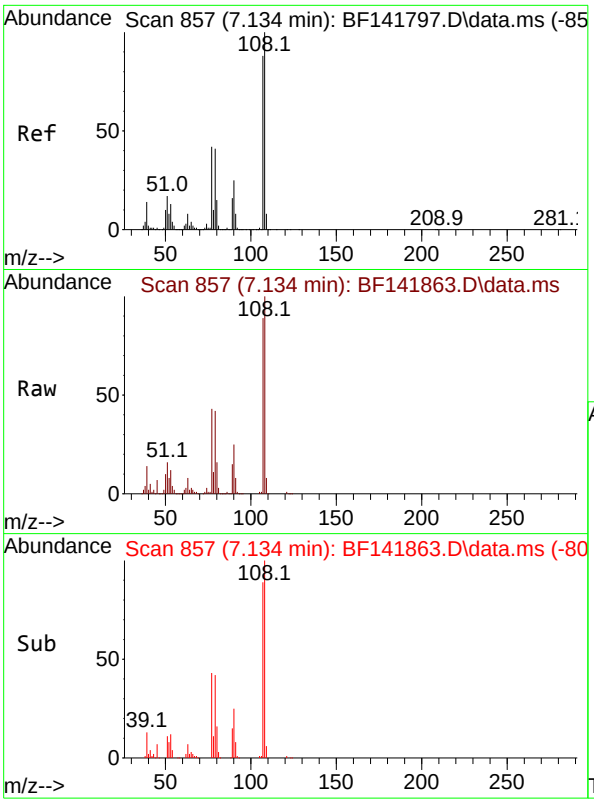


#16
2,2'-oxybis(1-Chloropropane)
Concen: 35.106 ng
RT: 7.157 min Scan# 861
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion: 45 Resp: 773514

Ion	Ratio	Lower	Upper
45	100		
77	16.2	0.0	34.4
79	12.2	0.0	30.9

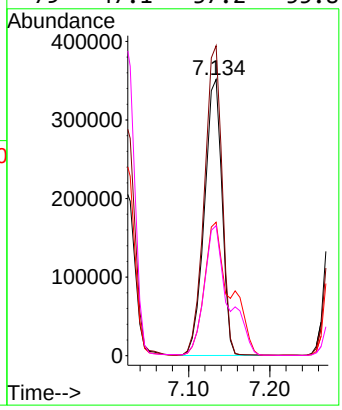




#17
2-Methylphenol
Concen: 43.202 ng
RT: 7.134 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:107 Resp: 52789

Ion	Ratio	Lower	Upper
107	100		
108	112.2	90.6	135.8
77	48.3	37.7	56.5
79	47.1	37.2	55.8



Instrument :
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ClientSampleId :
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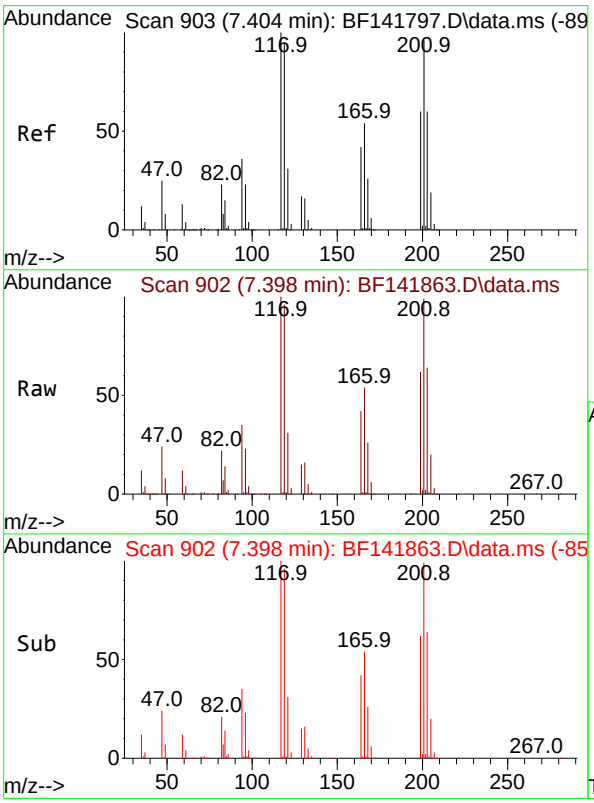
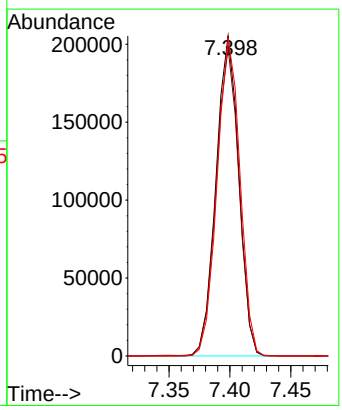
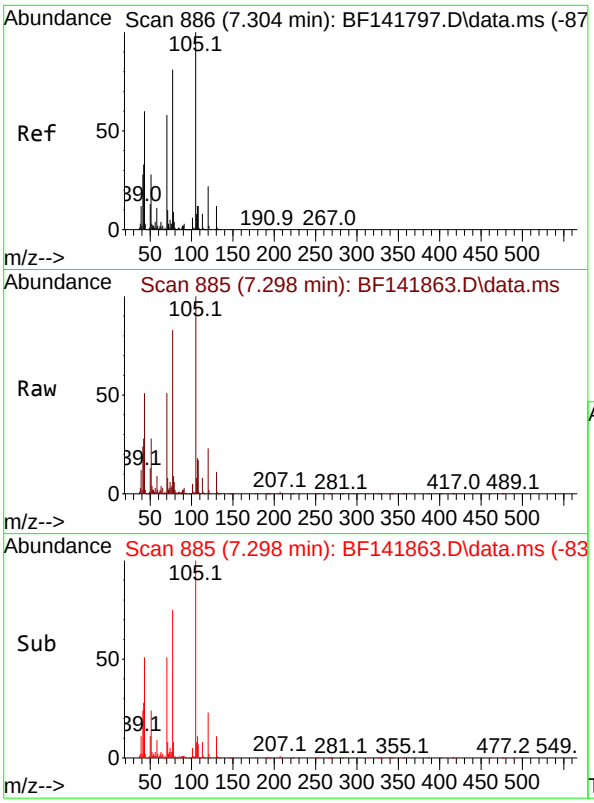


#18
Hexachloroethane
Concen: 44.725 ng
RT: 7.398 min Scan# 902
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:117 Resp: 267400

Ion	Ratio	Lower	Upper
117	100		
119	96.1	75.8	113.8
201	99.3	76.7	115.1

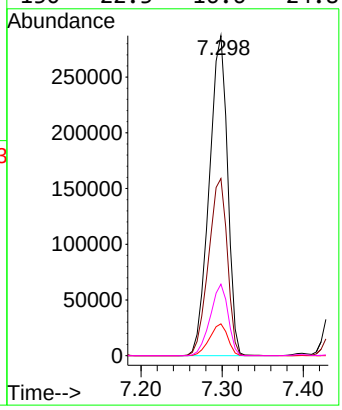




#19
n-Nitroso-di-n-propylamine
Concen: 38.456 ng
RT: 7.298 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion: 70 Resp: 45027

Ion	Ratio	Lower	Upper
70	100		
42	55.4	45.4	68.0
101	9.9	7.8	11.8
130	22.3	16.6	24.8



Instrument :
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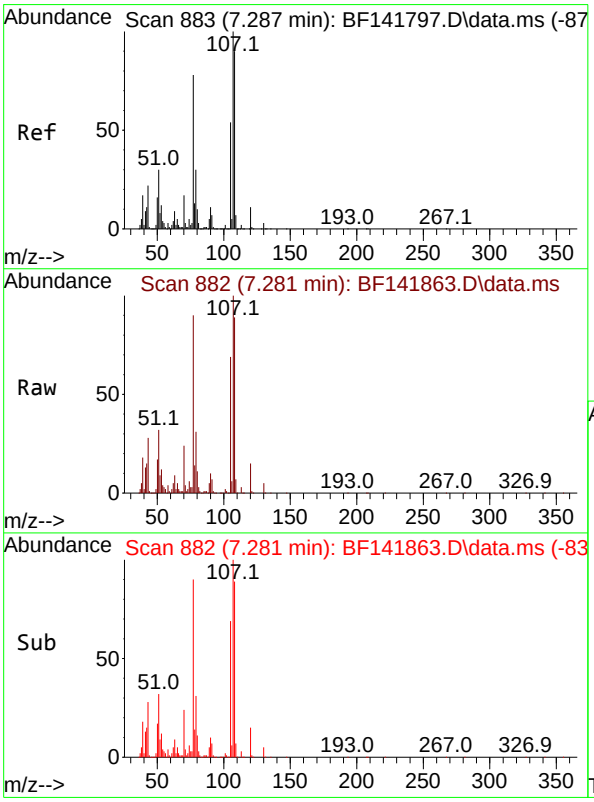
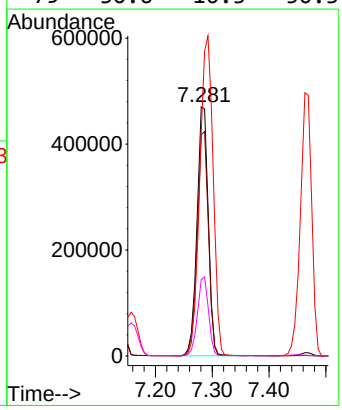
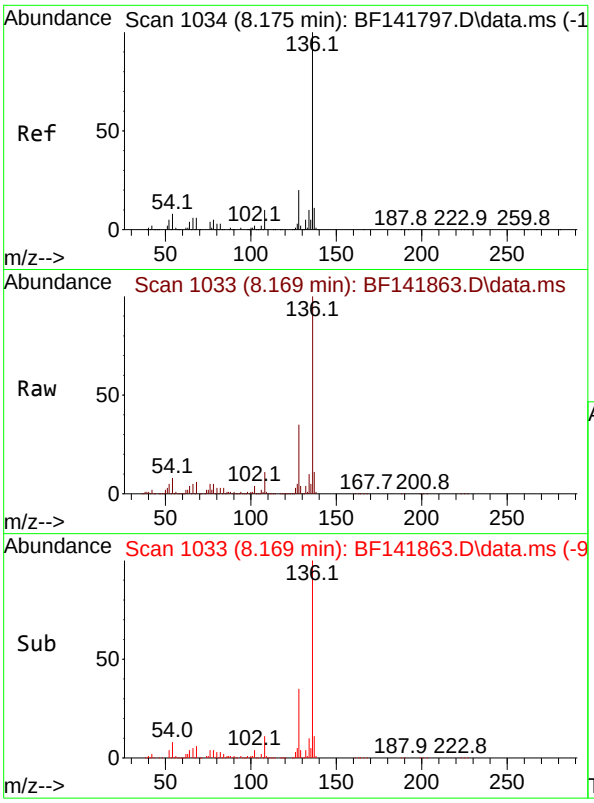


#20
3+4-Methylphenols
Concen: 42.771 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:107 Resp: 650789

Ion	Ratio	Lower	Upper
107	100		
108	88.8	69.7	109.7
77	89.8	58.3	98.3
79	30.6	10.3	50.3

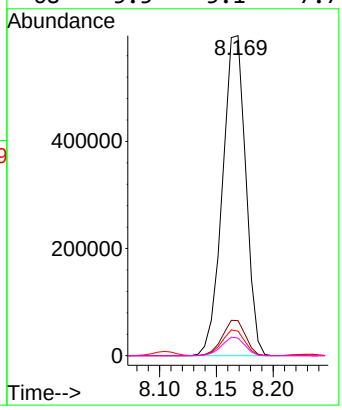




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:136 Resp: 85056

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	7.6	6.9	10.3
68	5.5	5.1	7.7



Instrument :
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ClientSampleId :
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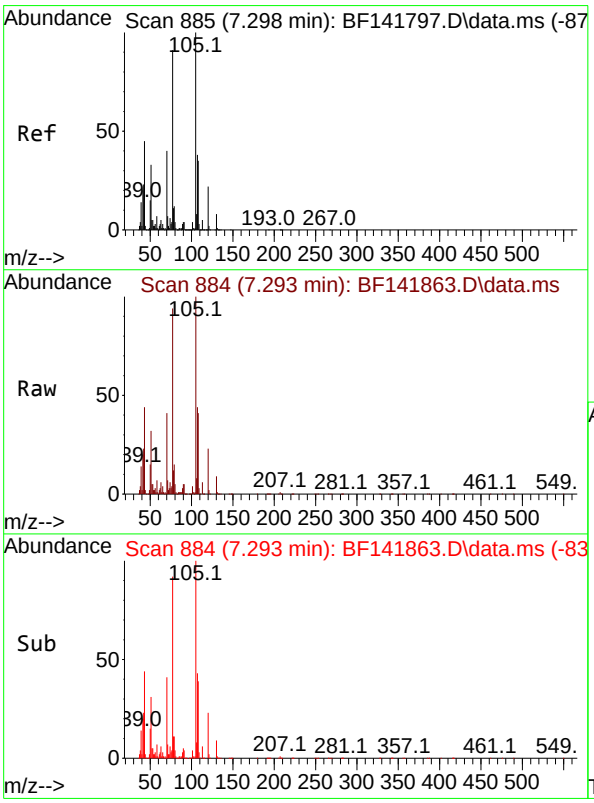
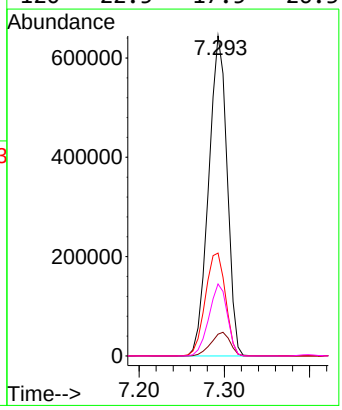
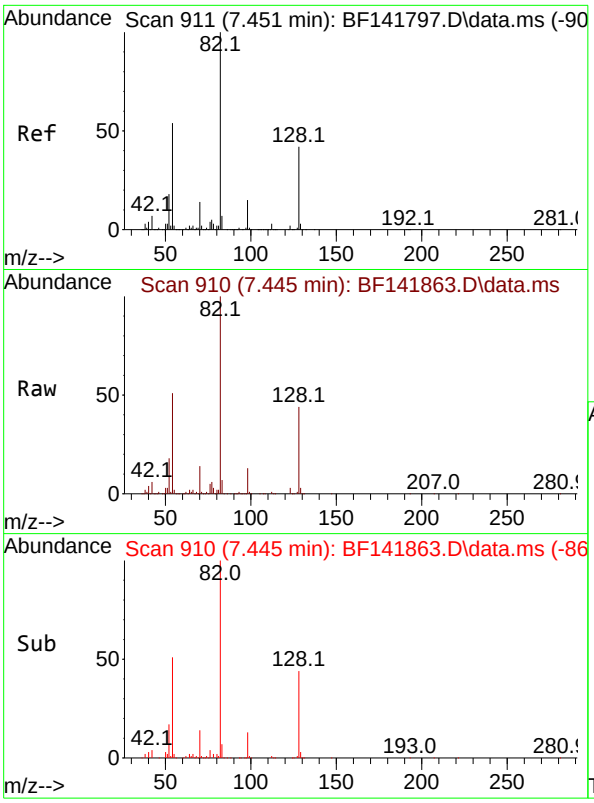


#22
Acetophenone
Concen: 46.826 ng
RT: 7.293 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:105 Resp: 970026

Ion	Ratio	Lower	Upper
105	100		
71	6.8	5.4	8.0
51	32.1	26.1	39.1
120	22.5	17.5	26.3

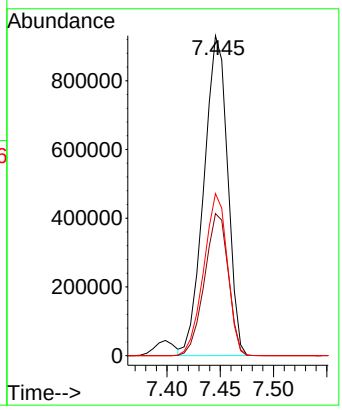




#23
Nitrobenzene-d5
Concen: 108.534 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion: 82 Resp: 144422

Ion	Ratio	Lower	Upper
82	100		
128	44.4	33.5	50.3
54	50.6	42.7	64.1



Instrument :
BNA_F
ClientSampleId :
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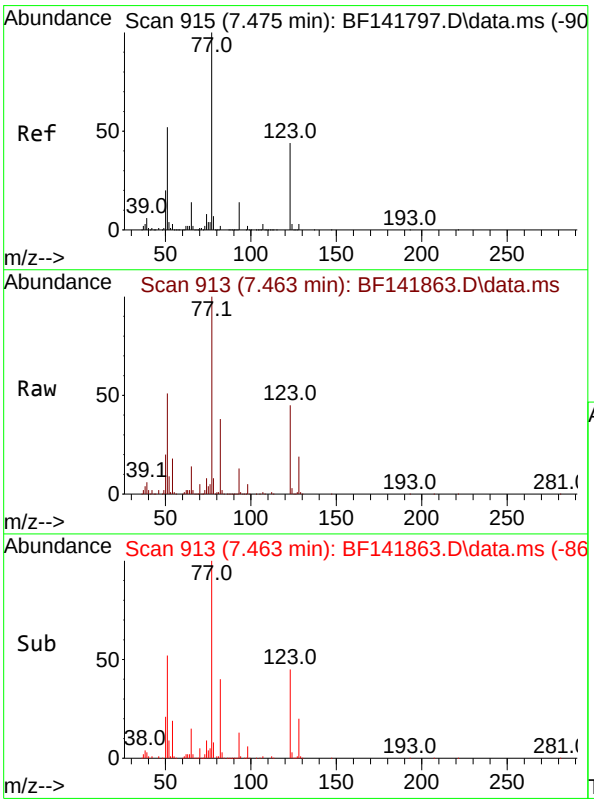
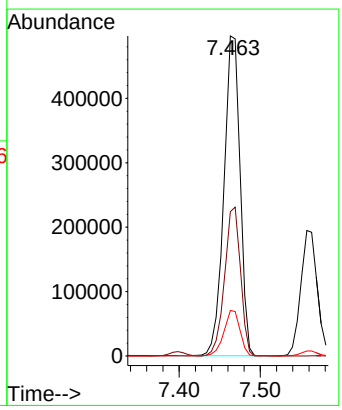
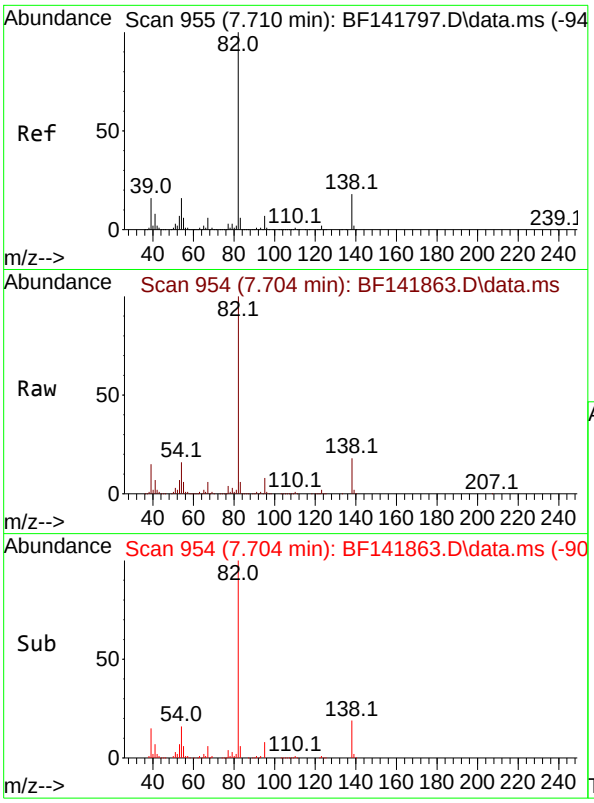


#24
Nitrobenzene
Concen: 48.471 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion: 77 Resp: 690687

Ion	Ratio	Lower	Upper
77	100		
123	45.1	35.8	53.8
65	14.2	11.2	16.8

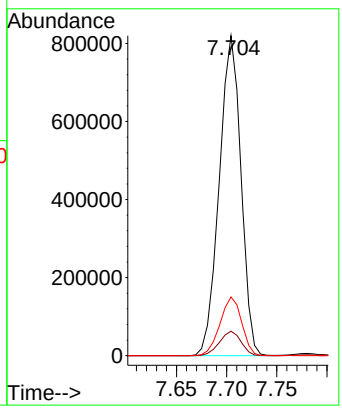




#25
Isophorone
Concen: 43.115 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion: 82 Resp: 123253

Ion	Ratio	Lower	Upper
82	100		
95	7.6	5.8	8.8
138	18.4	14.0	21.0



Instrument :
BNA_F
ClientSampleId :
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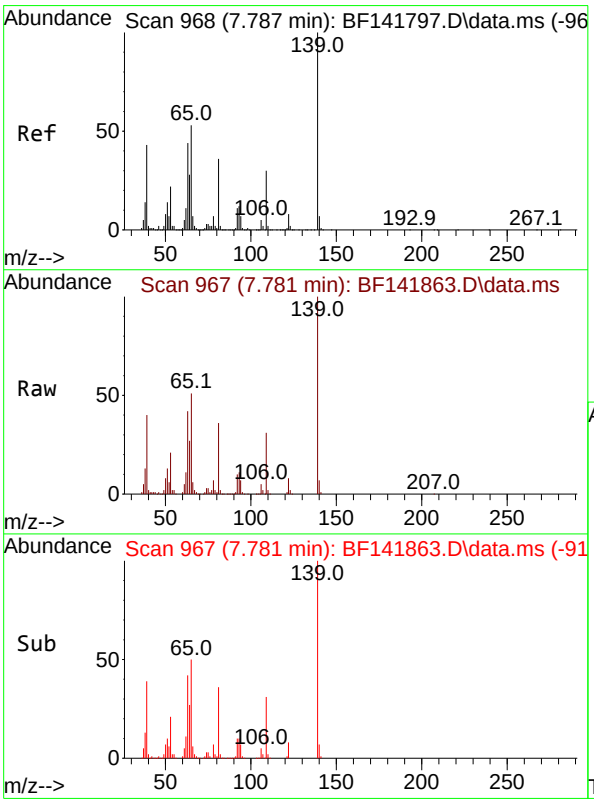
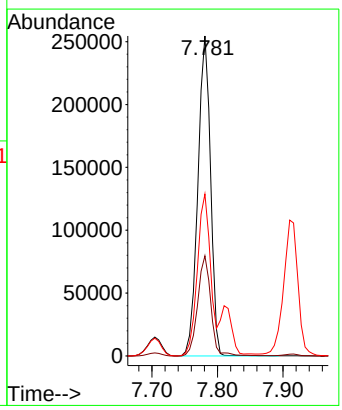
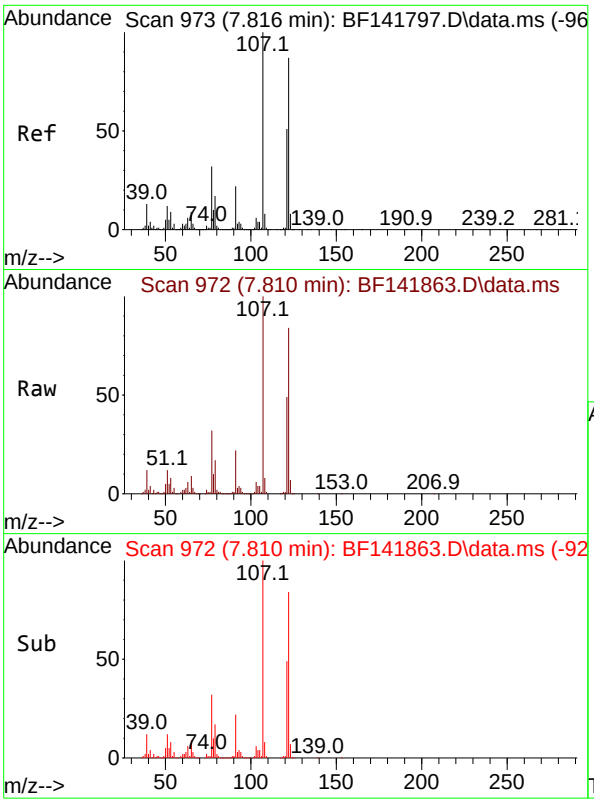


#26
2-Nitrophenol
Concen: 53.396 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:139 Resp: 343487

Ion	Ratio	Lower	Upper
139	100		
109	31.3	24.1	36.1
65	50.6	42.3	63.5

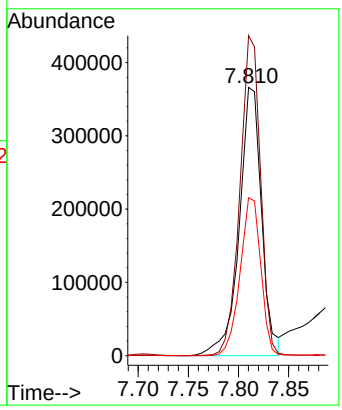




#27
2,4-Dimethylphenol
Concen: 53.938 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:122 Resp: 56680

Ion	Ratio	Lower	Upper
122	100		
107	119.3	92.5	138.7
121	58.8	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
PB166982BSD

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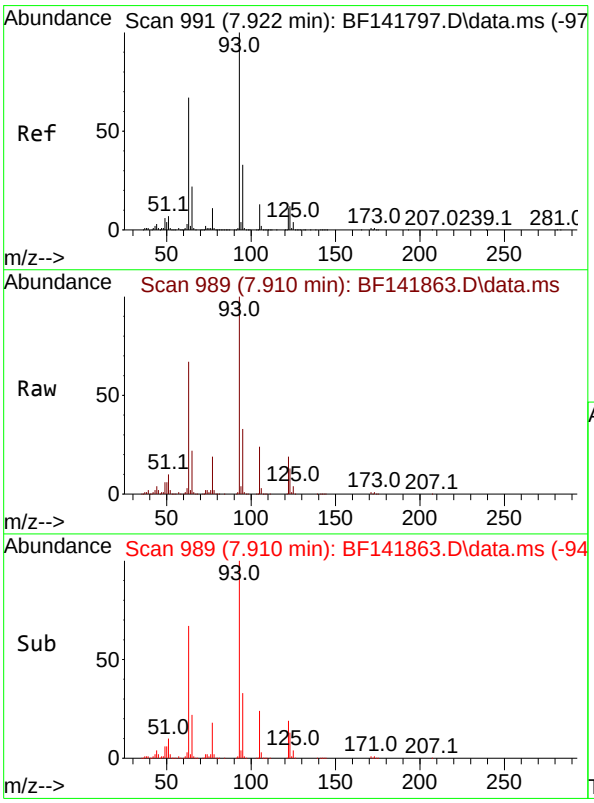
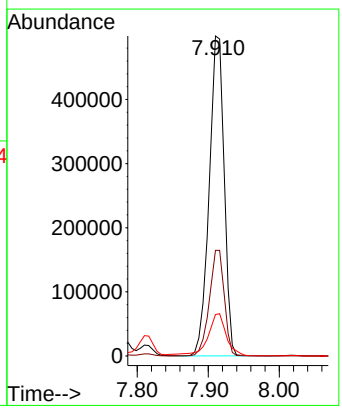
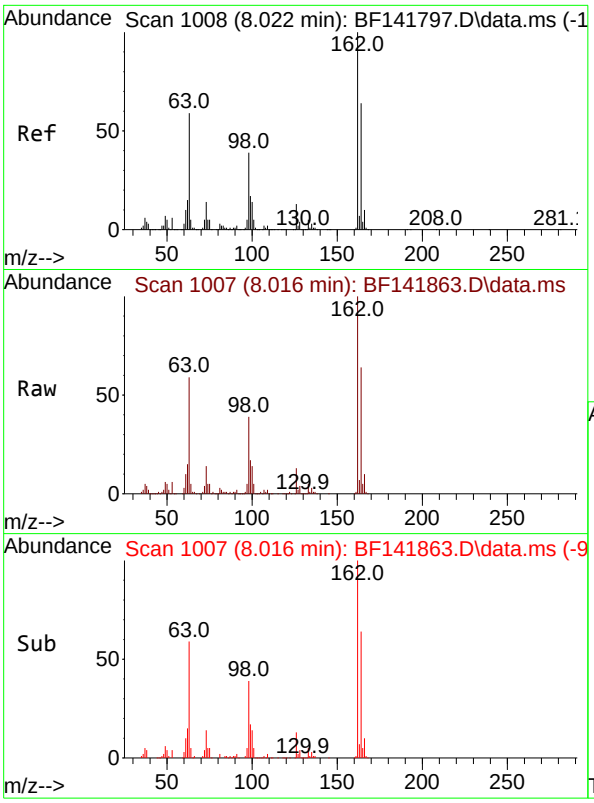


#28
bis(2-Chloroethoxy)methane
Concen: 40.113 ng
RT: 7.910 min Scan# 989
Delta R.T. -0.012 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion: 93 Resp: 731505

Ion	Ratio	Lower	Upper
93	100		
95	33.0	26.5	39.7
123	12.9	10.0	15.0

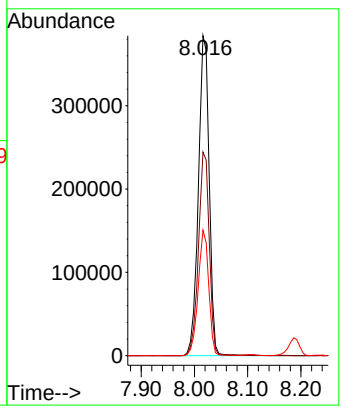




#29
2,4-Dichlorophenol
Concen: 44.554 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:162 Resp: 54012

Ion	Ratio	Lower	Upper
162	100		
164	63.7	44.3	84.3
98	39.2	19.6	59.6



Instrument :
BNA_F
ClientSampleId :
PB166982BSD

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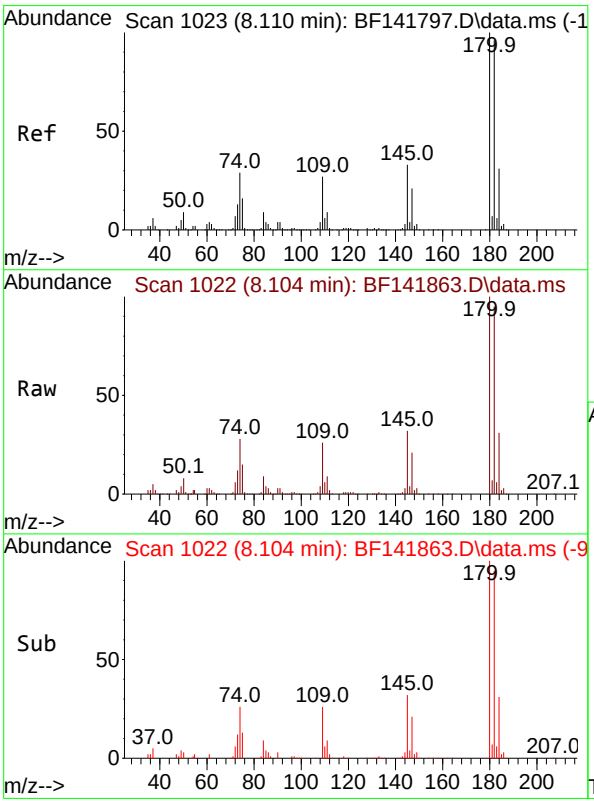
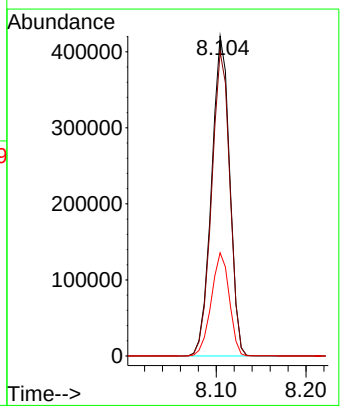
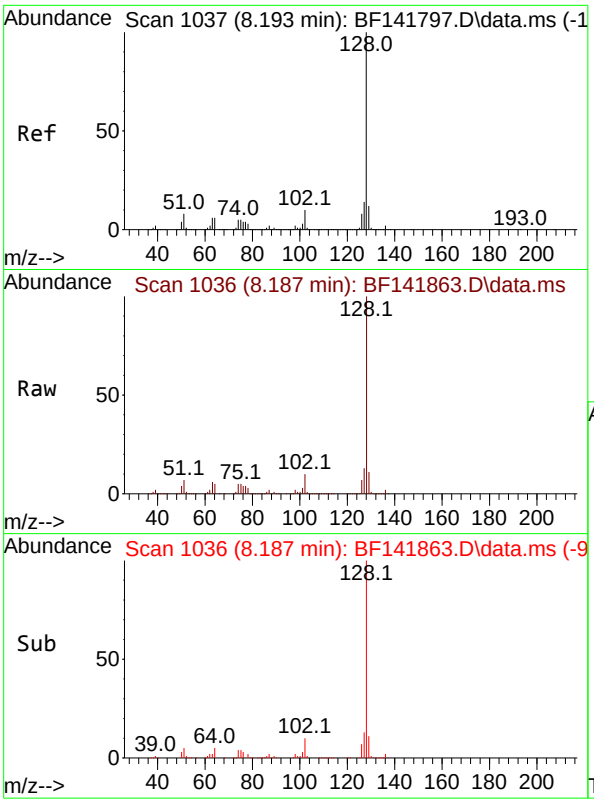


#30
1,2,4-Trichlorobenzene
Concen: 44.476 ng
RT: 8.104 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:180 Resp: 590826

Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.8	115.2
145	32.2	26.4	39.6





#31
Naphthalene
Concen: 43.113 ng
RT: 8.187 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:128 Resp: 188468

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.2	13.8
127	13.3	11.0	16.4

Instrument :
BNA_F
ClientSampleId :
PB166982BSD

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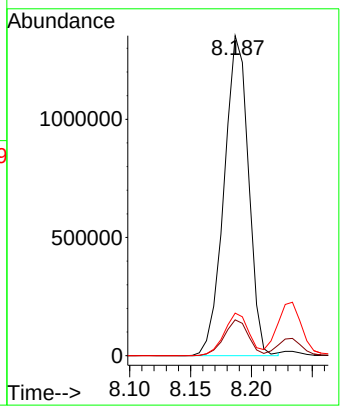
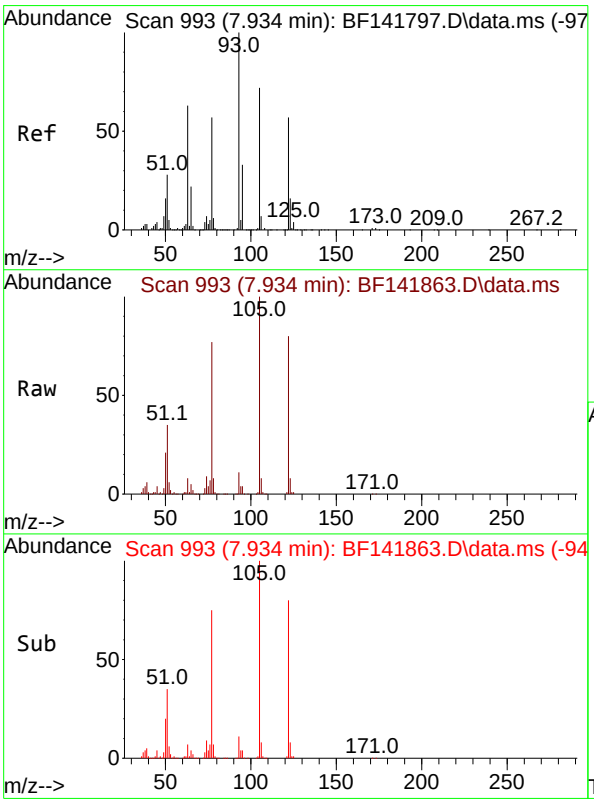
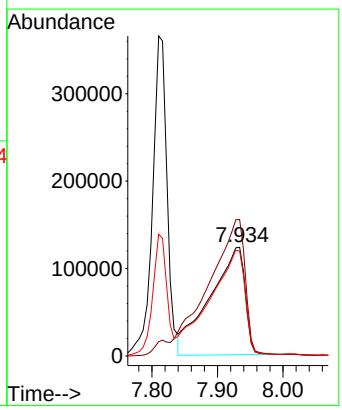


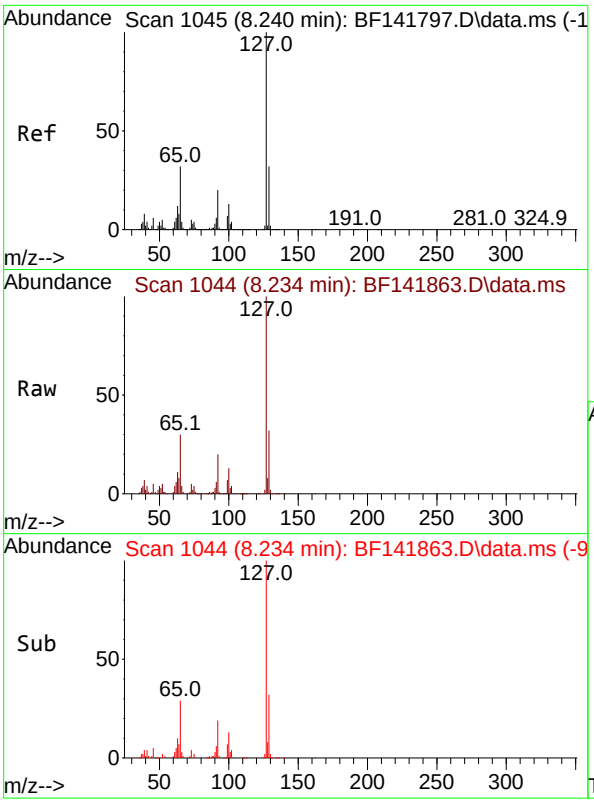


#32
Benzoic acid
Concen: 51.796 ng
RT: 7.934 min Scan# 993
Delta R.T. -0.000 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:122 Resp: 460651

Ion	Ratio	Lower	Upper
122	100		
105	125.6	105.8	145.8
77	96.5	79.9	119.9





#33
4-Chloroaniline
Concen: 20.077 ng
RT: 8.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Instrument :
BNA_F
ClientSampleId :
PB166982BSD

Tgt Ion:127 Resp: 32180

Ion	Ratio	Lower	Upper
127	100		
129	32.3	26.1	39.1
65	30.4	25.7	38.5
92	19.5	16.1	24.1

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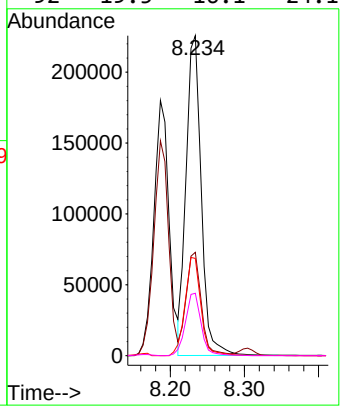
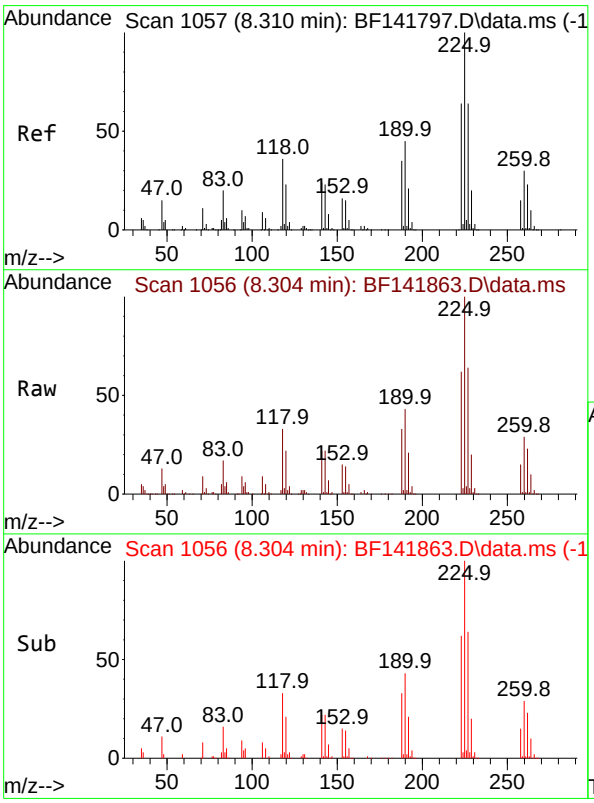
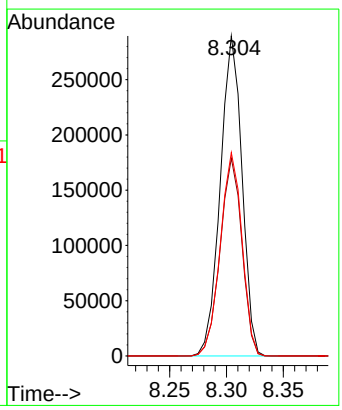


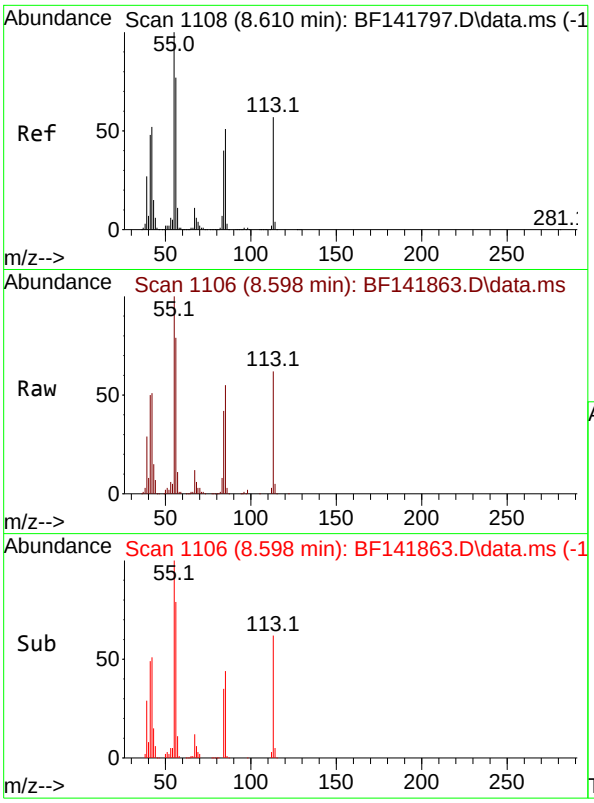


#34
Hexachlorobutadiene
Concen: 46.592 ng
RT: 8.304 min Scan# 1056
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:225 Resp: 384615

Ion	Ratio	Lower	Upper
225	100		
223	61.8	51.4	77.2
227	63.6	51.6	77.4

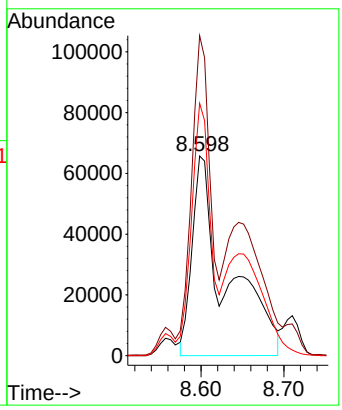




#35
Caprolactam
Concen: 50.476 ng m
RT: 8.598 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:113 Resp: 18824

Ion	Ratio	Lower	Upper
113	100		
55	160.3	155.6	195.6
56	126.4	114.6	154.6



Instrument :
BNA_F
ClientSampleId :
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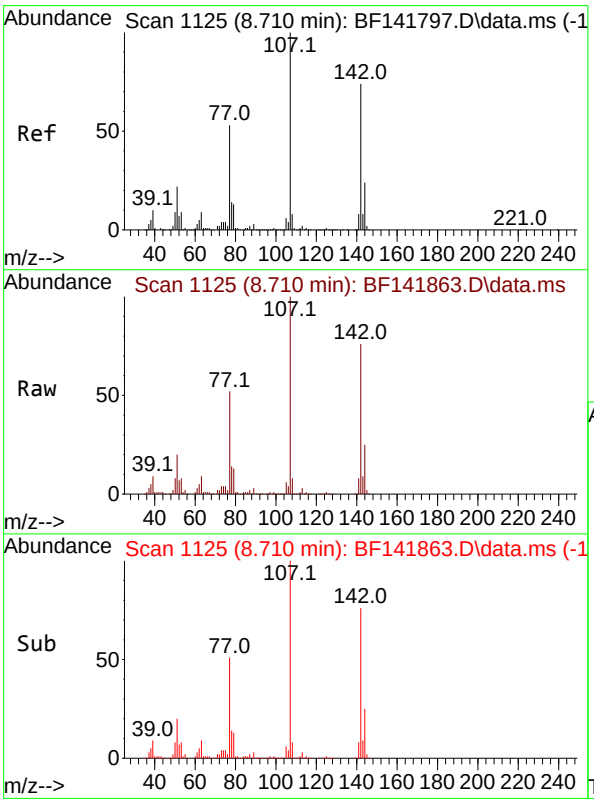
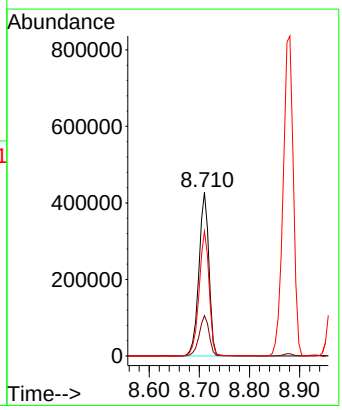
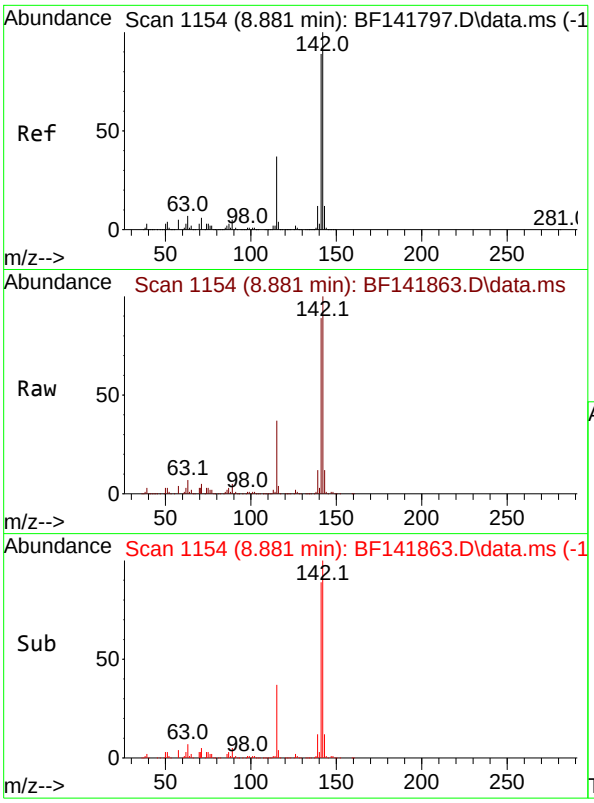


#36
4-Chloro-3-methylphenol
Concen: 43.912 ng
RT: 8.710 min Scan# 1125
Delta R.T. 0.000 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:107 Resp: 591369

Ion	Ratio	Lower	Upper
107	100		
144	24.6	19.4	29.0
142	76.2	59.4	89.0

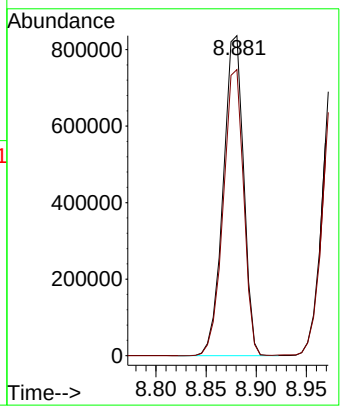




#37
2-Methylnaphthalene
Concen: 41.221 ng
RT: 8.881 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:142 Resp: 118195

Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.1	106.7



Instrument :
BNA_F
ClientSampleId :
PB166982BSD

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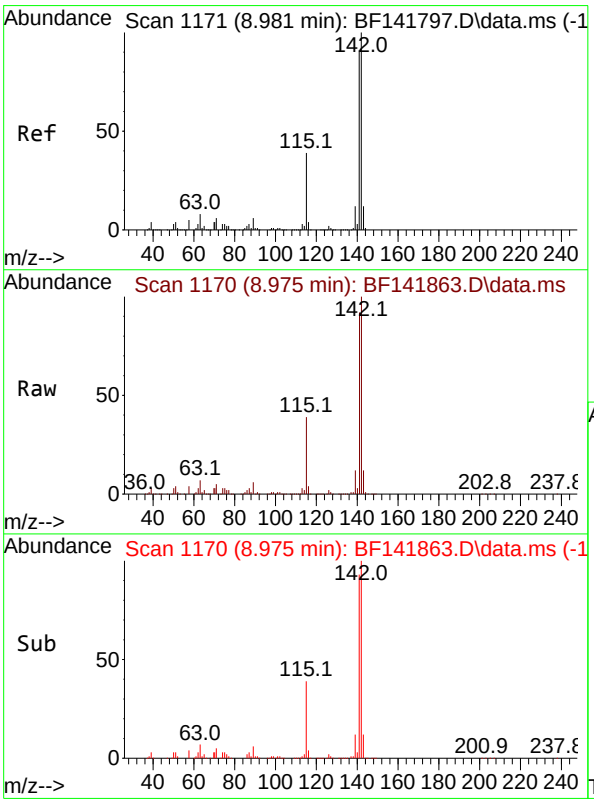
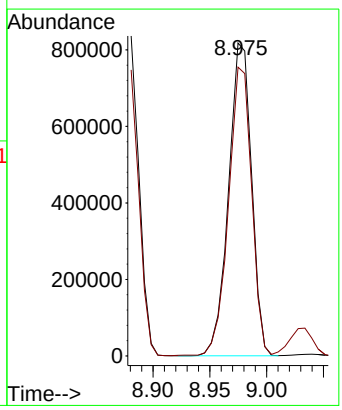
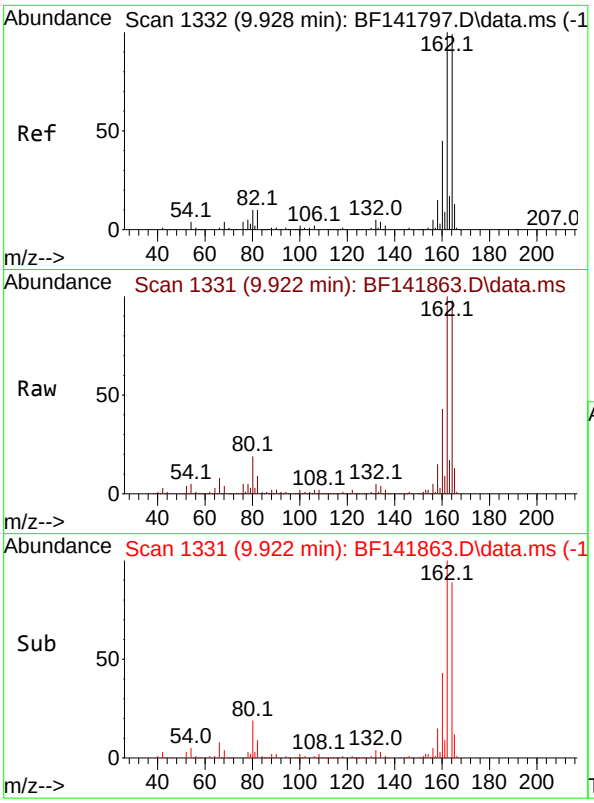


#38
1-Methylnaphthalene
Concen: 41.811 ng
RT: 8.975 min Scan# 1170
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:142 Resp: 1150355

Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.1	109.7

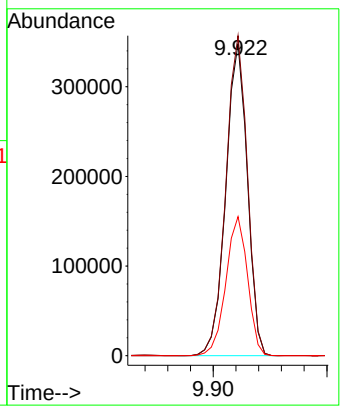




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:164 Resp: 45846

Ion	Ratio	Lower	Upper
164	100		
162	102.5	80.6	120.8
160	44.6	36.3	54.5



Instrument :
BNA_F
ClientSampleId :
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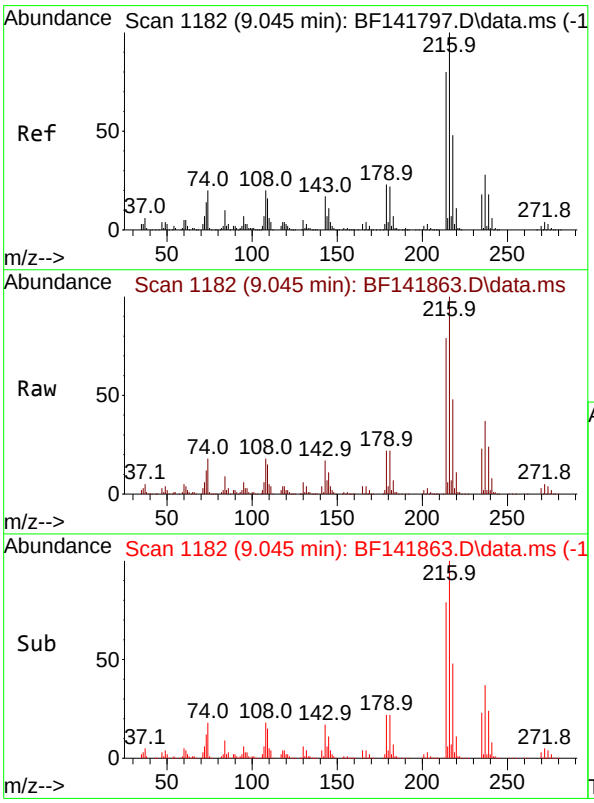
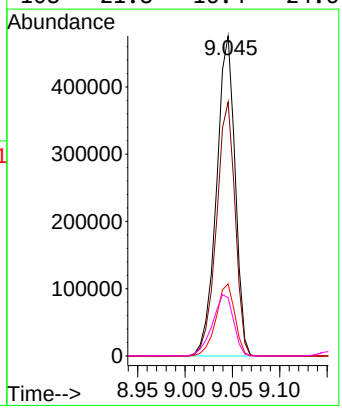
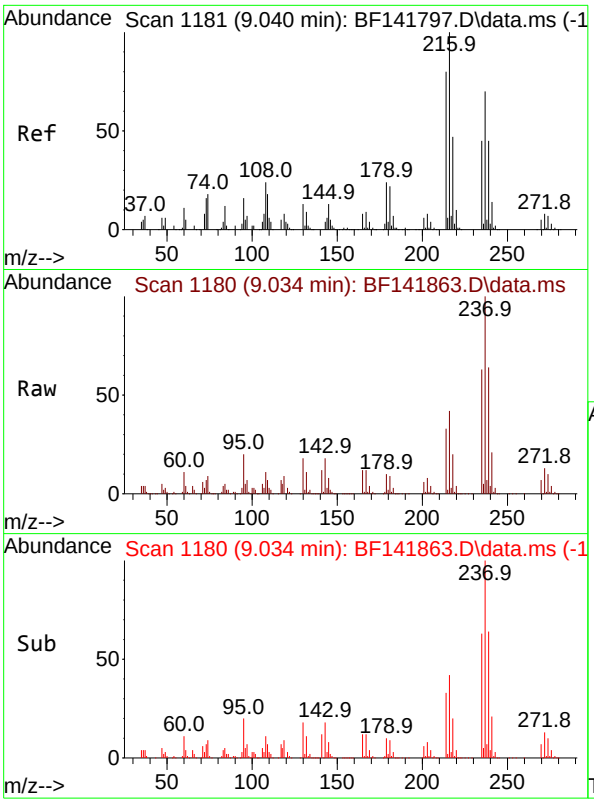


#40
1,2,4,5-Tetrachlorobenzene
Concen: 49.197 ng
RT: 9.045 min Scan# 1182
Delta R.T. 0.000 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:216 Resp: 651413

Ion	Ratio	Lower	Upper
216	100		
214	79.3	63.5	95.3
179	22.7	18.1	27.1
108	21.8	16.4	24.6





#41
Hexachlorocyclopentadiene
Concen: 155.461 ng
RT: 9.034 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Instrument :
BNA_F
ClientSampleId :
PB166982BSD

Tgt Ion:237 Resp: 85904

Ion	Ratio	Lower	Upper
237	100		
235	62.8	43.3	83.3
272	12.8	0.0	31.9

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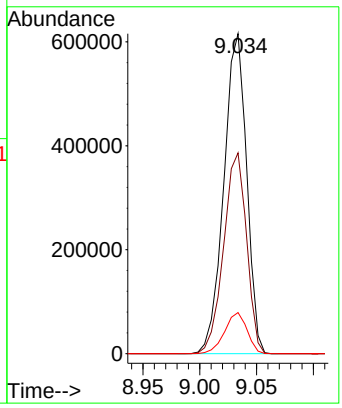
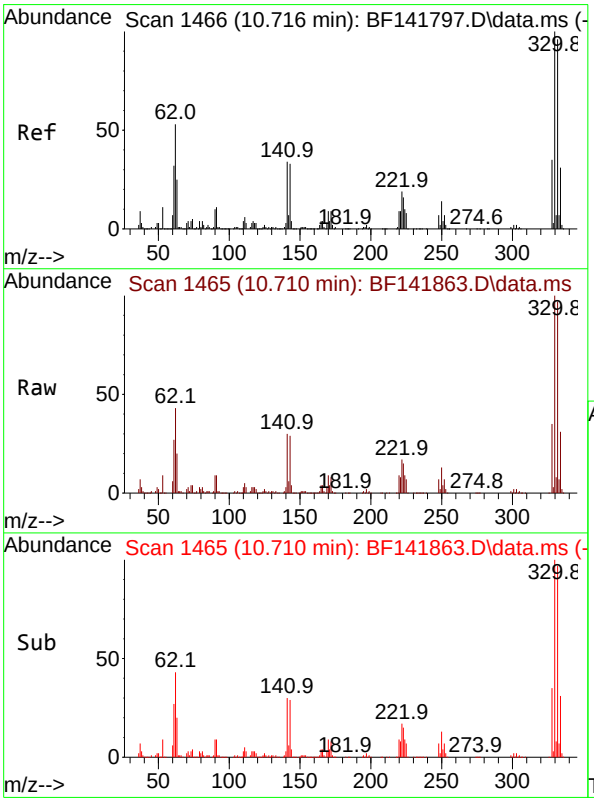
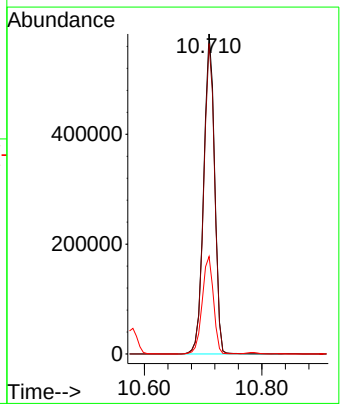


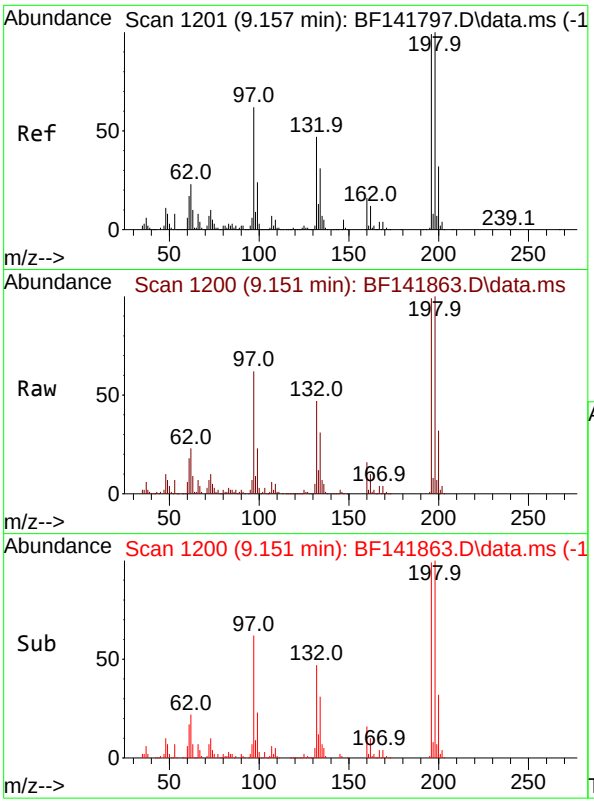


#42
2,4,6-Tribromophenol
Concen: 174.213 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:330 Resp: 749833

Ion	Ratio	Lower	Upper
330	100		
332	97.1	76.6	115.0
141	31.5	29.0	43.4

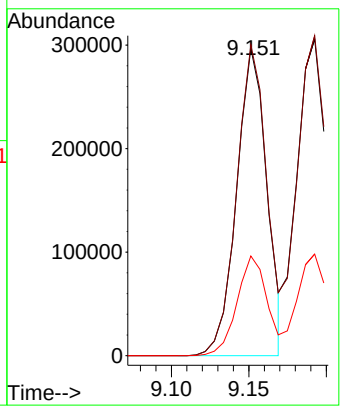




#43
2,4,6-Trichlorophenol
Concen: 46.992 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:196 Resp: 40192

Ion	Ratio	Lower	Upper
196	100		
198	101.2	80.4	120.6
200	32.4	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
PB166982BSD

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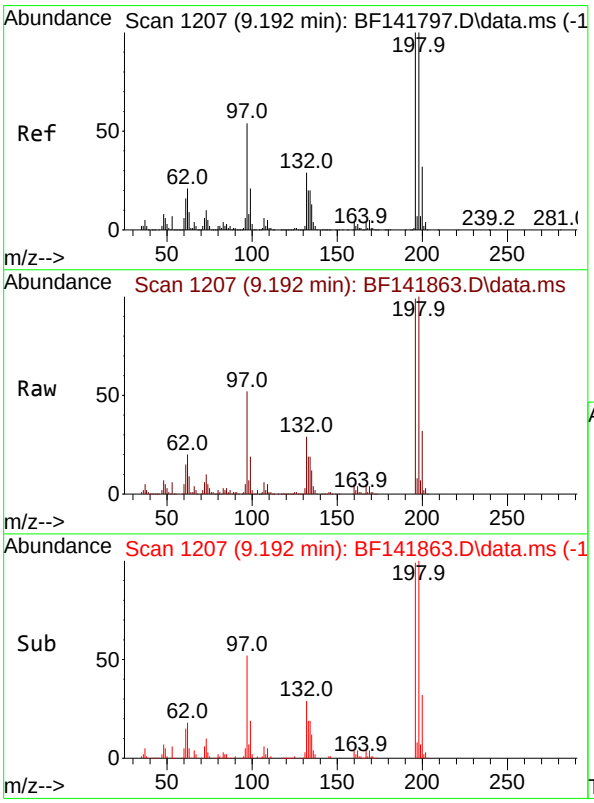
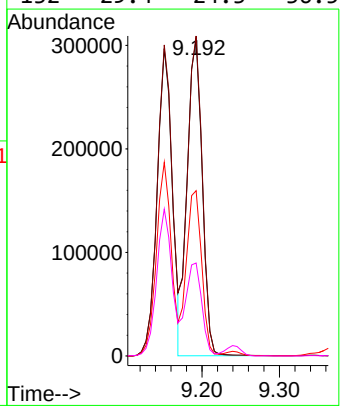
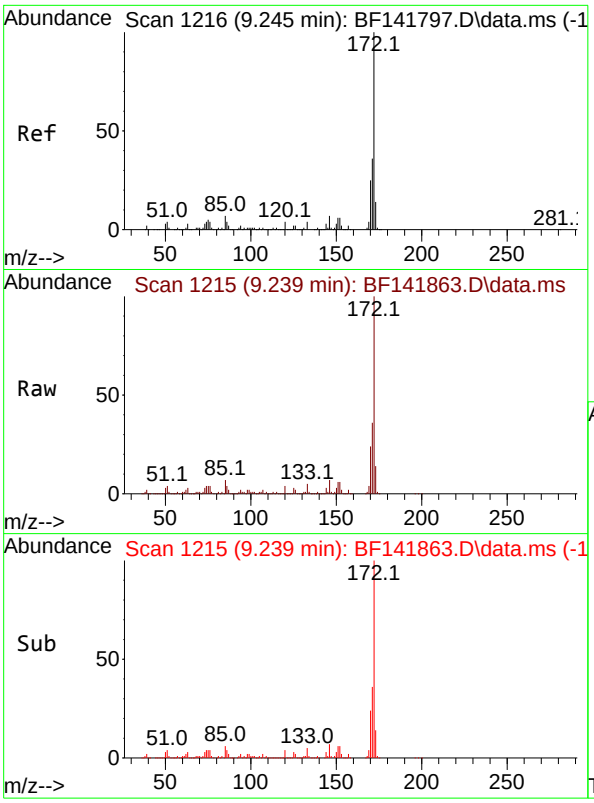


#44
2,4,5-Trichlorophenol
Concen: 48.786 ng
RT: 9.192 min Scan# 1207
Delta R.T. 0.000 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:196 Resp: 413188

Ion	Ratio	Lower	Upper
196	100		
198	101.0	79.7	119.5
97	52.2	44.2	66.2
132	29.4	24.3	36.5

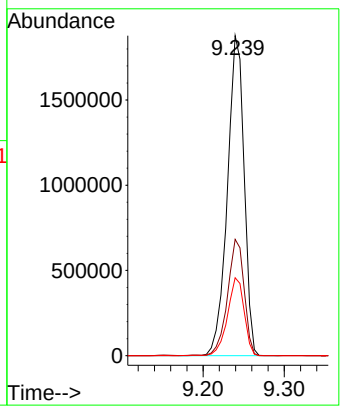




#45
2-Fluorobiphenyl
Concen: 93.977 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:172 Resp: 268702

Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.2	43.8
170	24.3	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
PB166982BSD

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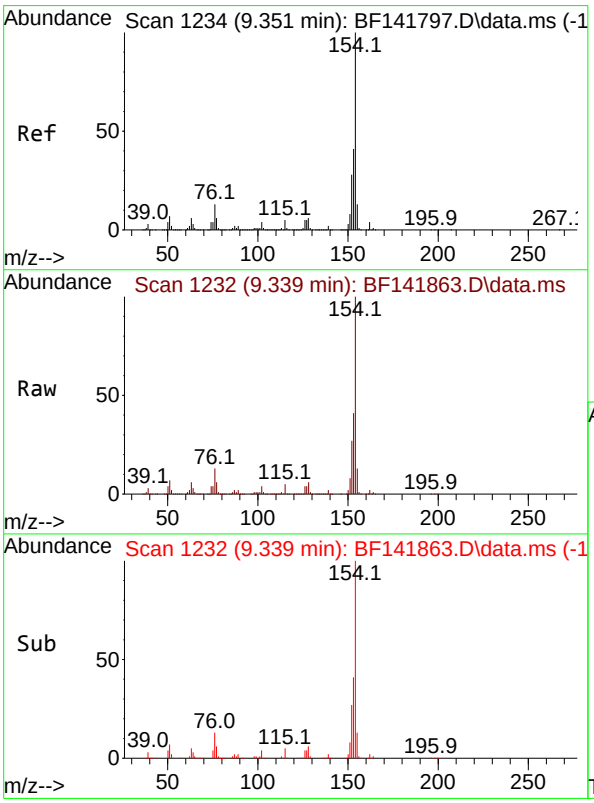
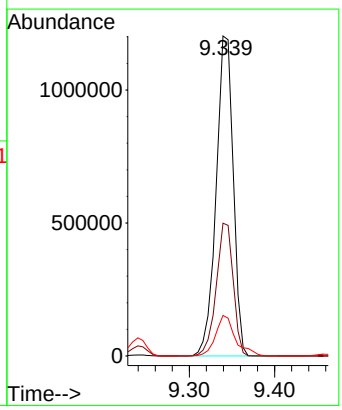
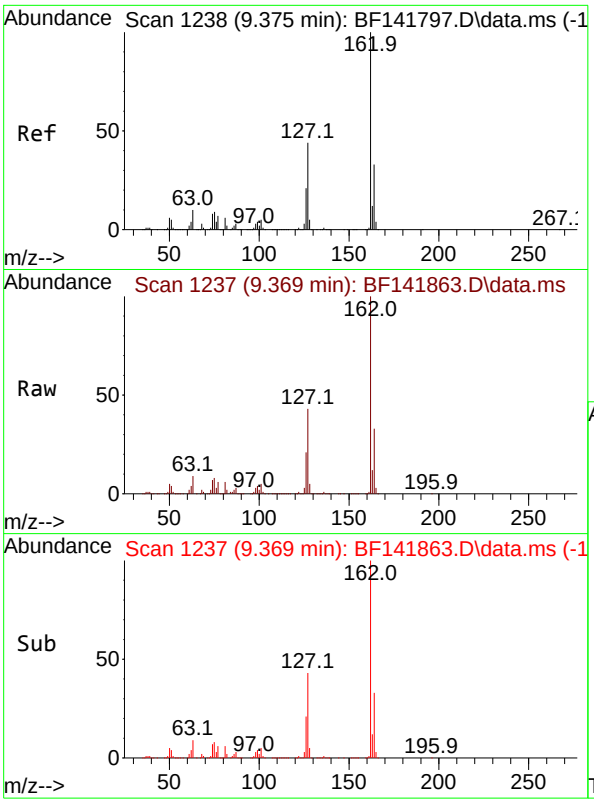


#46
1,1'-Biphenyl
Concen: 48.029 ng
RT: 9.339 min Scan# 1232
Delta R.T. -0.012 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:154 Resp: 1676041

Ion	Ratio	Lower	Upper
154	100		
153	41.5	21.4	61.4
76	12.7	0.0	33.4

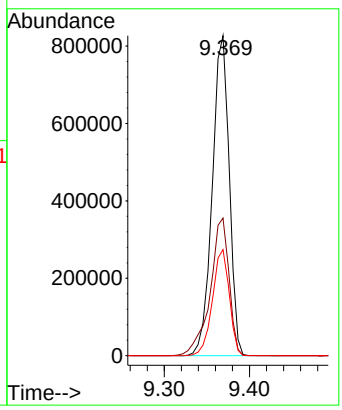




#47
2-Chloronaphthalene
Concen: 44.336 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:162 Resp: 114191

Ion	Ratio	Lower	Upper
162	100		
127	43.0	35.0	52.6
164	33.1	26.6	40.0



Instrument :
BNA_F
ClientSampleId :
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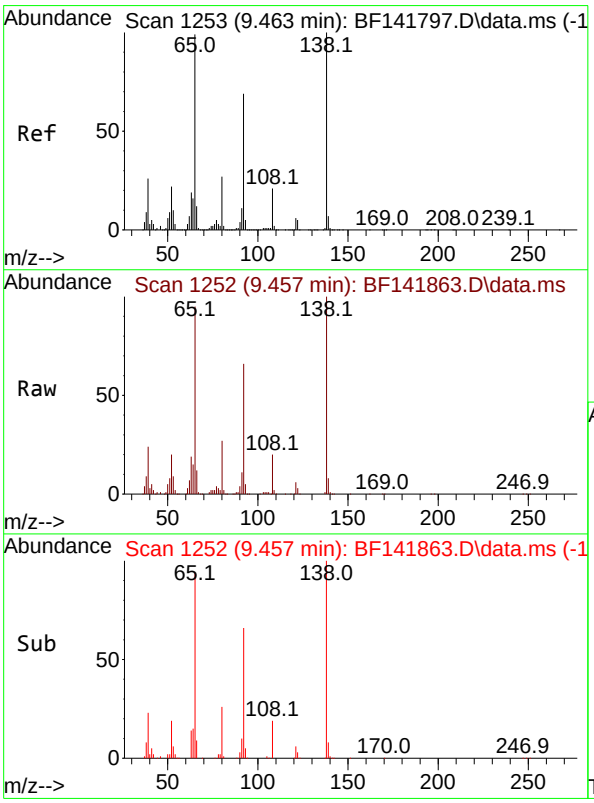
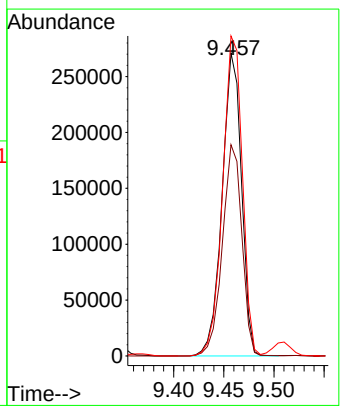
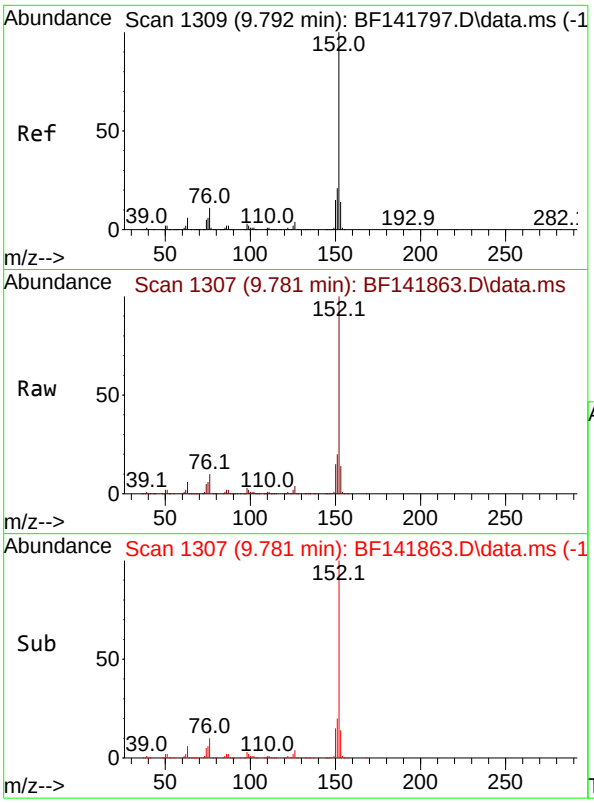


#48
2-Nitroaniline
Concen: 51.359 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion: 65 Resp: 364440

Ion	Ratio	Lower	Upper
65	100		
92	69.7	55.7	83.5
138	105.7	80.6	121.0

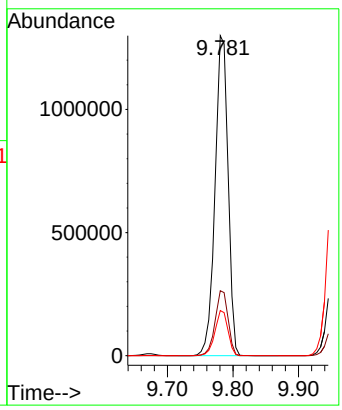




#49
Acenaphthylene
Concen: 46.273 ng
RT: 9.781 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:152 Resp: 178690

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.6	24.8
153	14.1	11.2	16.8



Instrument :
BNA_F
ClientSampleId :
PB166982BSD

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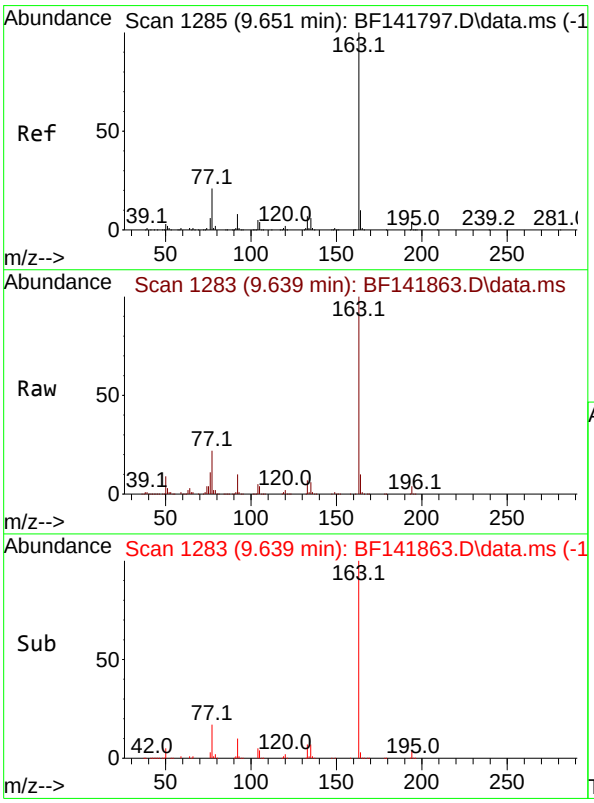
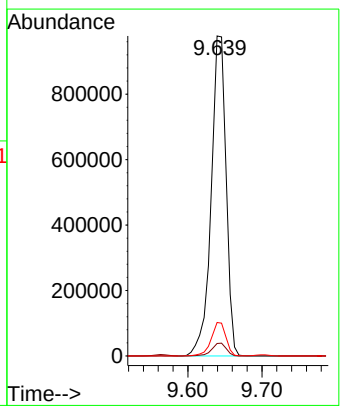
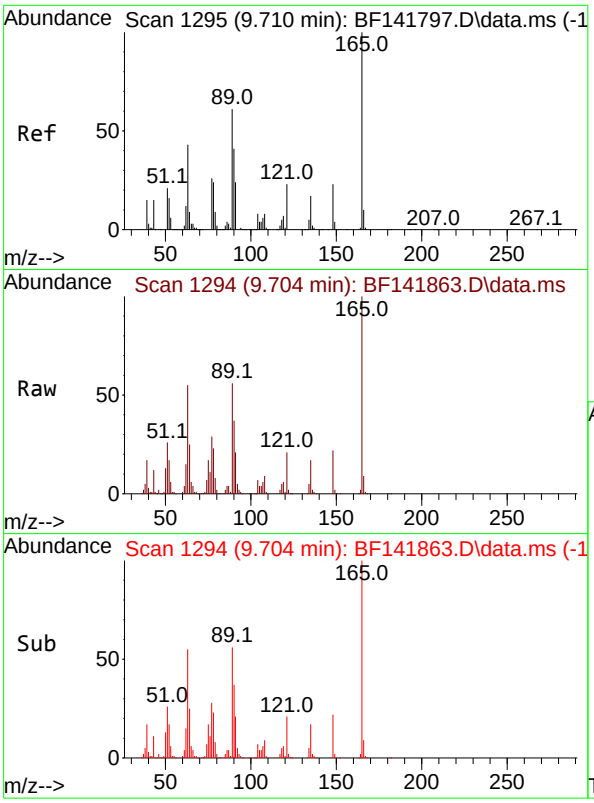


#50
Dimethylphthalate
Concen: 44.596 ng
RT: 9.639 min Scan# 1283
Delta R.T. -0.012 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:163 Resp: 1369183

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.4	8.4	12.6





#51
2,6-Dinitrotoluene
Concen: 51.550 ng
RT: 9.704 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:165 Resp: 30407

Ion	Ratio	Lower	Upper
165	100		
63	55.0	49.5	74.3
89	55.6	49.0	73.4

Instrument :
BNA_F
ClientSampleId :
PB166982BSD

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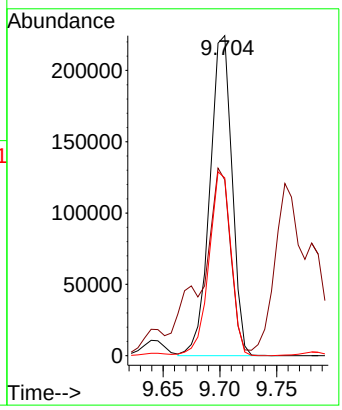
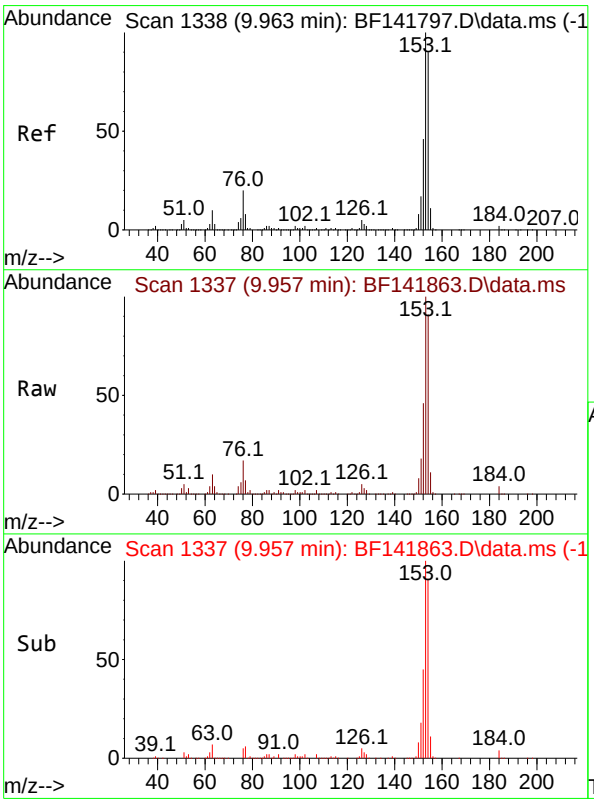
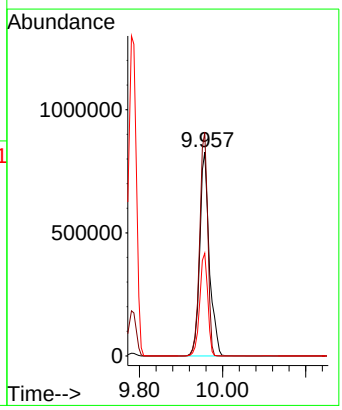


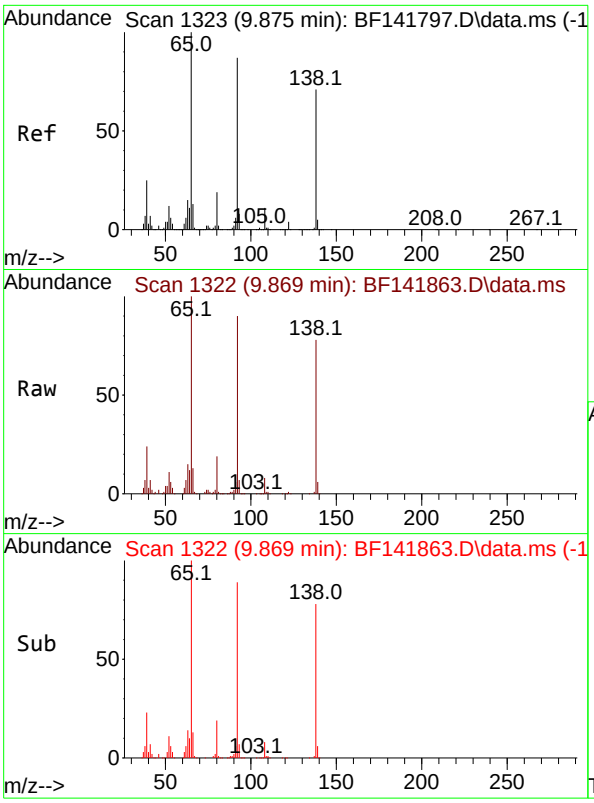


#52
Acenaphthene
Concen: 50.968 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:154 Resp: 1328050

Ion	Ratio	Lower	Upper
154	100		
153	109.7	88.7	133.1
152	50.4	40.9	61.3





#53
3-Nitroaniline
Concen: 34.701 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:138 Resp: 21161

Ion	Ratio	Lower	Upper
138	100		
108	10.8	12.7	19.1#
92	115.5	97.9	146.9

Instrument :
BNA_F
ClientSampleId :
PB166982BSD

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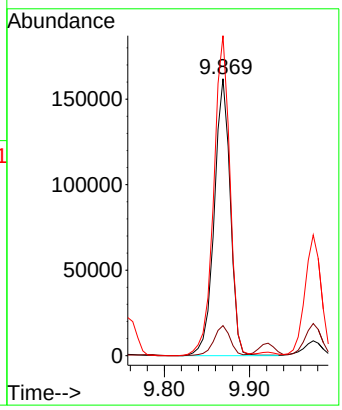
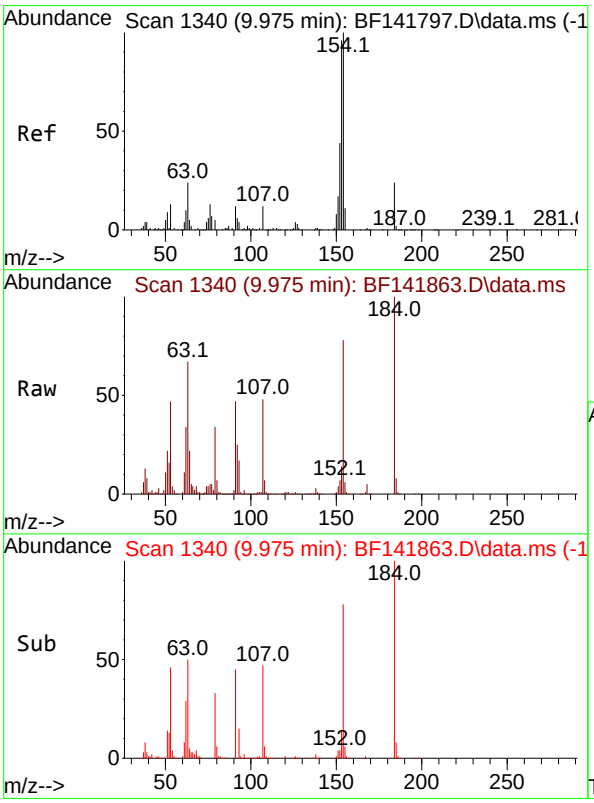
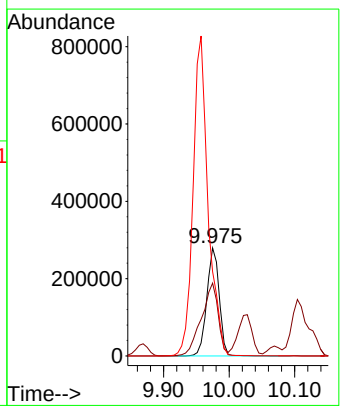


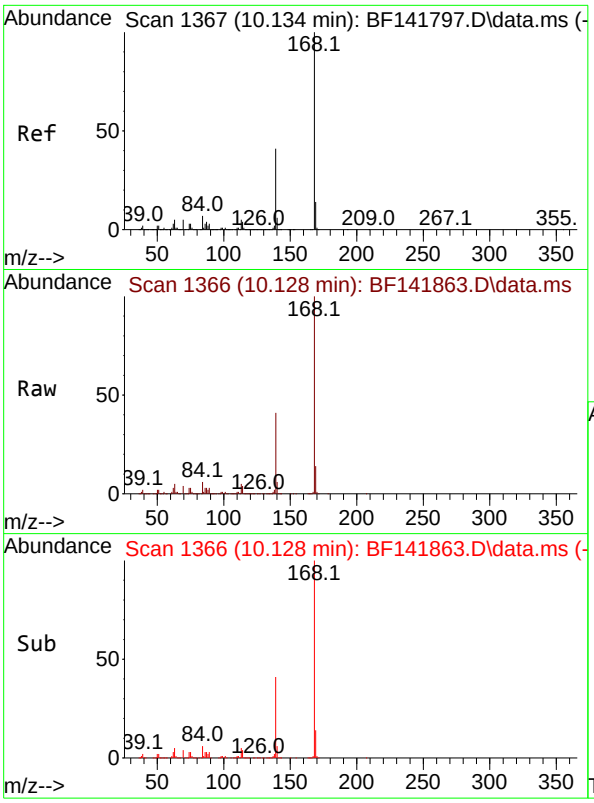


#54
2,4-Dinitrophenol
Concen: 117.425 ng
RT: 9.975 min Scan# 1340
Delta R.T. -0.000 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:184 Resp: 367510

Ion	Ratio	Lower	Upper
184	100		
63	67.4	79.0	118.6#
154	78.1	335.8	503.8#





#55
Dibenzofuran
Concen: 42.391 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Instrument :
BNA_F
ClientSampleId :
PB166982BSD

Tgt Ion:168 Resp: 160769

Ion	Ratio	Lower	Upper
168	100		
139	41.2	32.9	49.3
169	13.7	11.1	16.7

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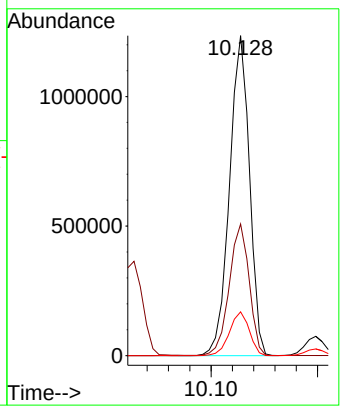
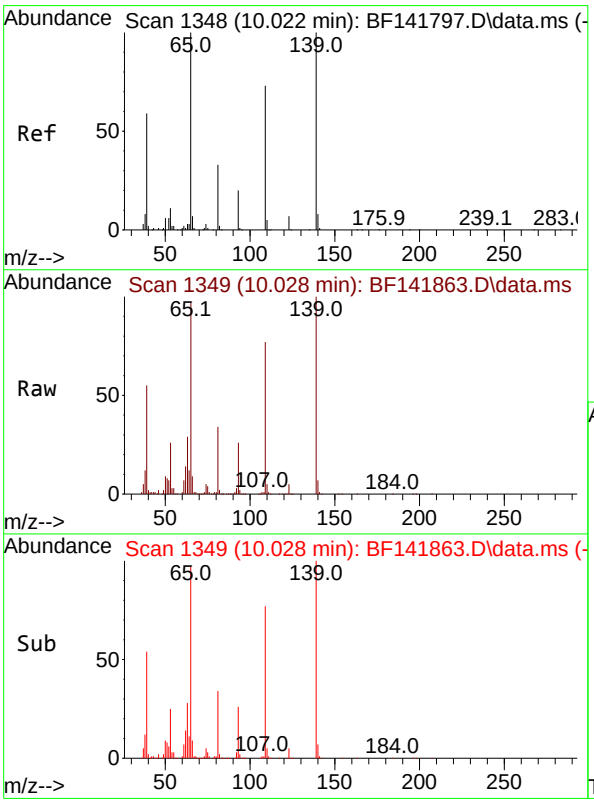
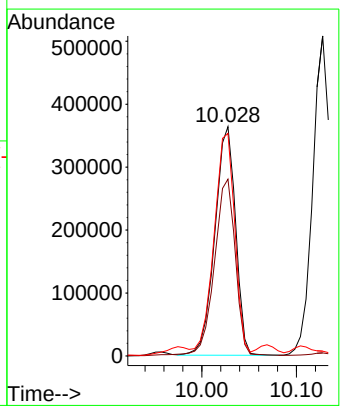


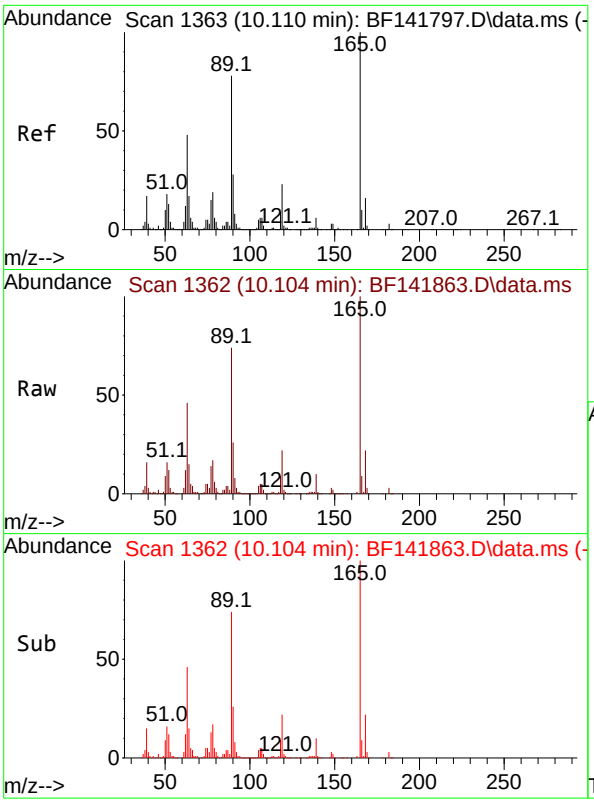


#56
4-Nitrophenol
Concen: 122.009 ng
RT: 10.028 min Scan# 1349
Delta R.T. 0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:139 Resp: 553259

Ion	Ratio	Lower	Upper
139	100		
109	77.1	53.4	93.4
65	97.0	82.1	122.1

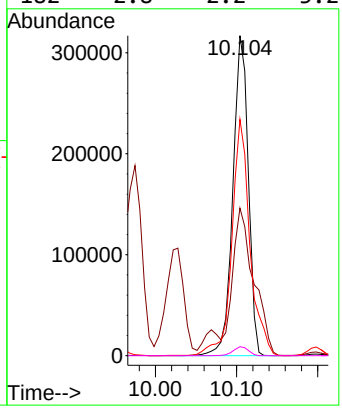




#57
2,4-Dinitrotoluene
Concen: 57.474 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:165 Resp: 41770

Ion	Ratio	Lower	Upper
165	100		
63	46.1	38.8	58.2
89	73.8	62.6	94.0
182	2.8	2.2	3.2



Instrument :
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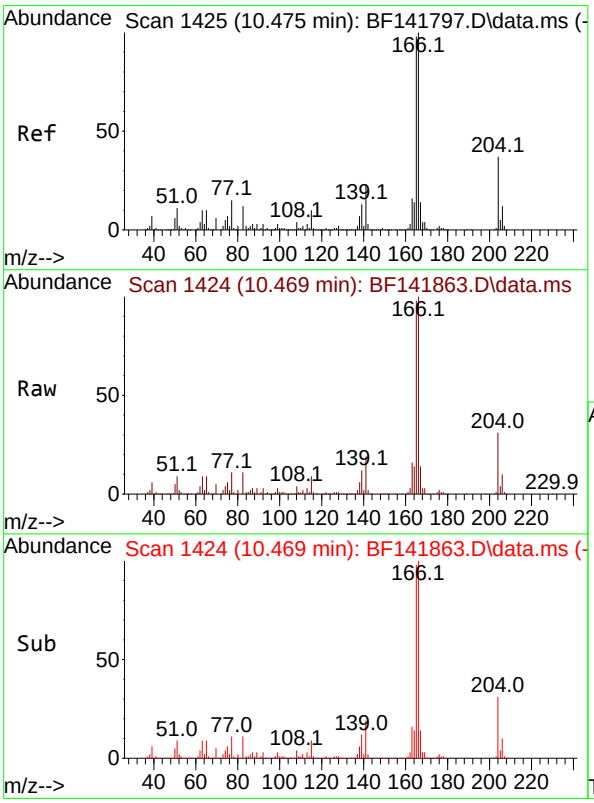
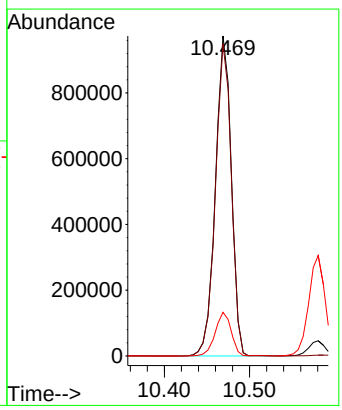
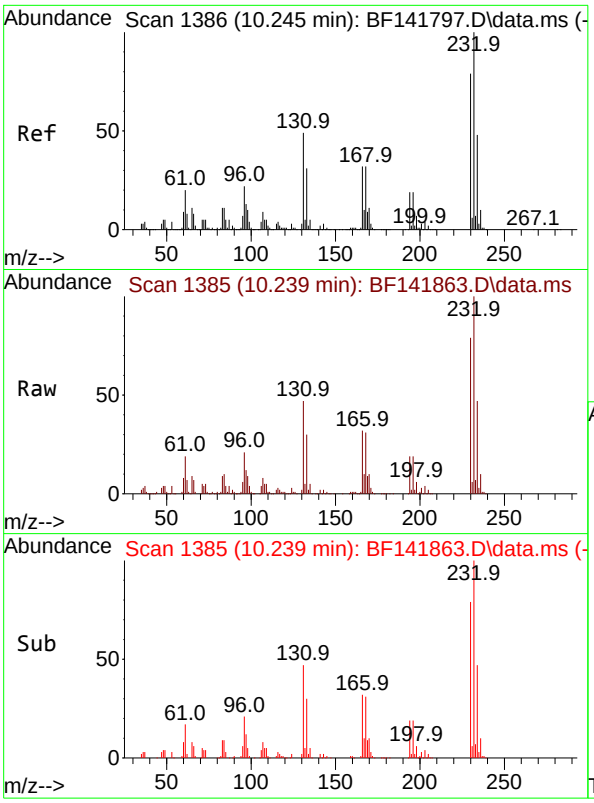


#58
Fluorene
Concen: 44.544 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:166 Resp: 1265412

Ion	Ratio	Lower	Upper
166	100		
165	97.6	78.6	117.8
167	13.7	11.0	16.4





#59
2,3,4,6-Tetrachlorophenol
Concen: 48.696 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Instrument :
BNA_F
ClientSampleId :
PB166982BSD

Tgt Ion:232 Resp: 35869

Ion	Ratio	Lower	Upper
232	100		
131	47.2	37.8	56.8
130	2.4	2.0	3.0
166	31.9	25.0	37.4

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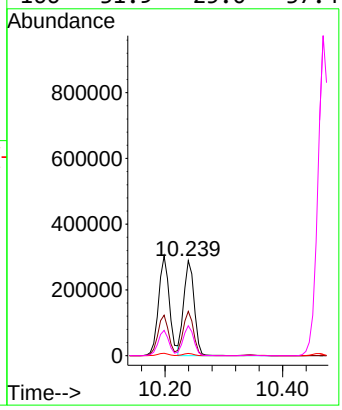
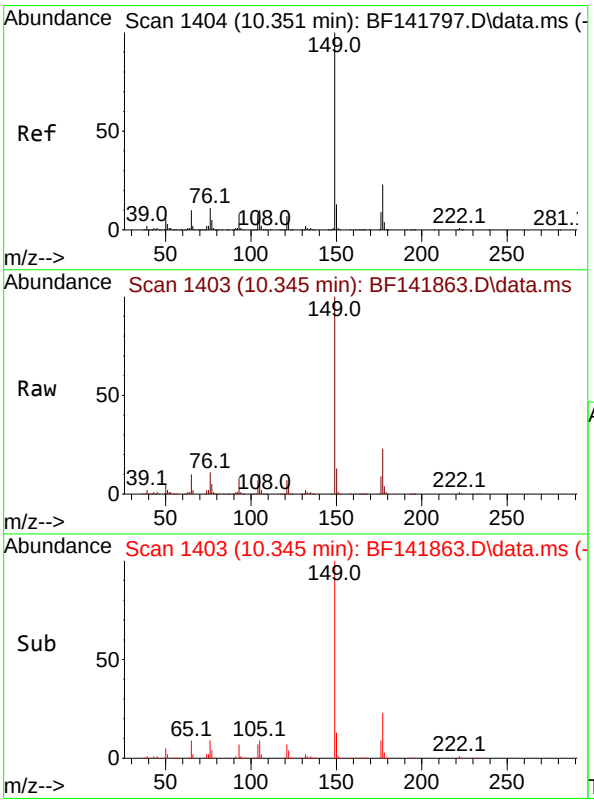
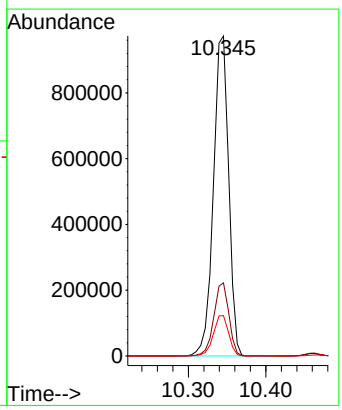


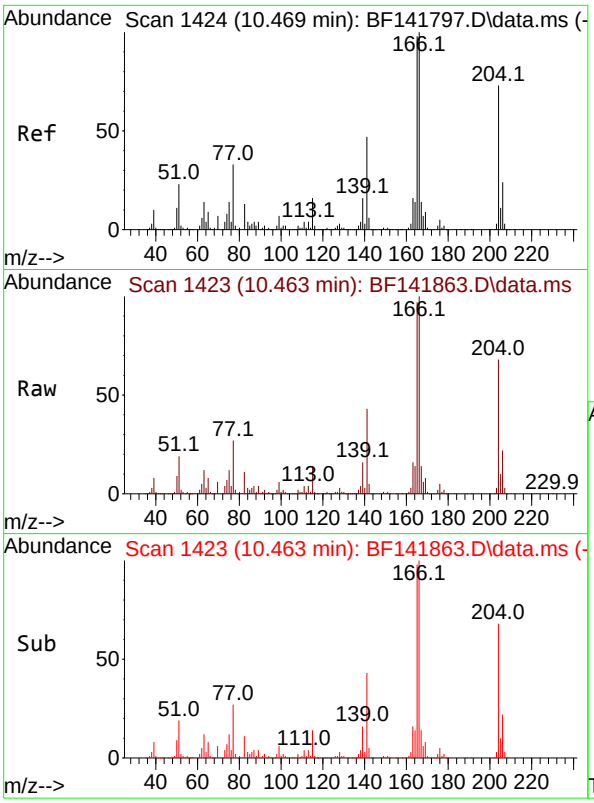


#60
Diethylphthalate
Concen: 43.160 ng
RT: 10.345 min Scan# 1403
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:149 Resp: 1328398

Ion	Ratio	Lower	Upper
149	100		
177	22.9	18.3	27.5
150	12.6	10.3	15.5





#61
4-Chlorophenyl-phenylether
Concen: 44.202 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Instrument :
BNA_F
ClientSampleId :
PB166982BSD

Tgt Ion:204 Resp: 62915

Ion	Ratio	Lower	Upper
204	100		
206	33.1	26.2	39.4
141	64.0	51.7	77.5

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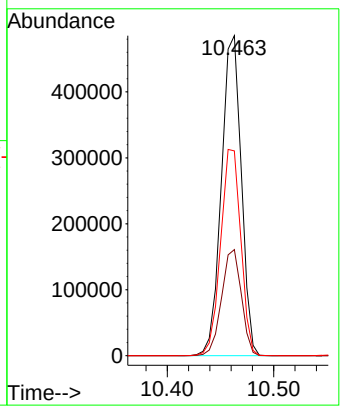
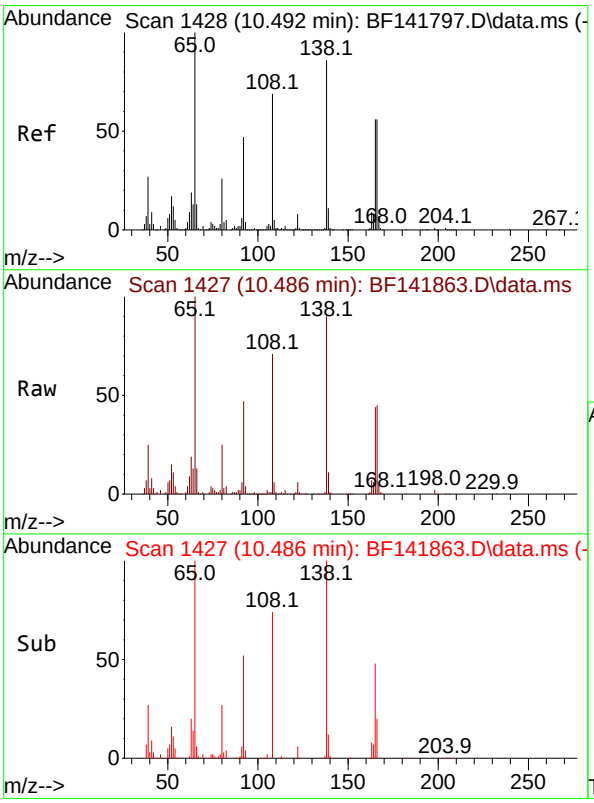
Supervised By :Jagrut Upadhyay 03/07/2025

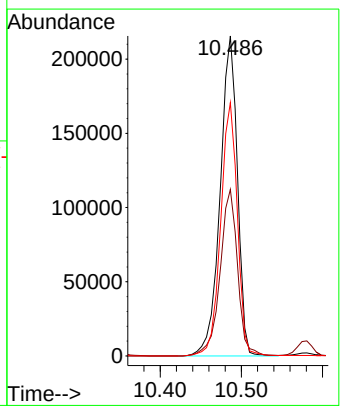


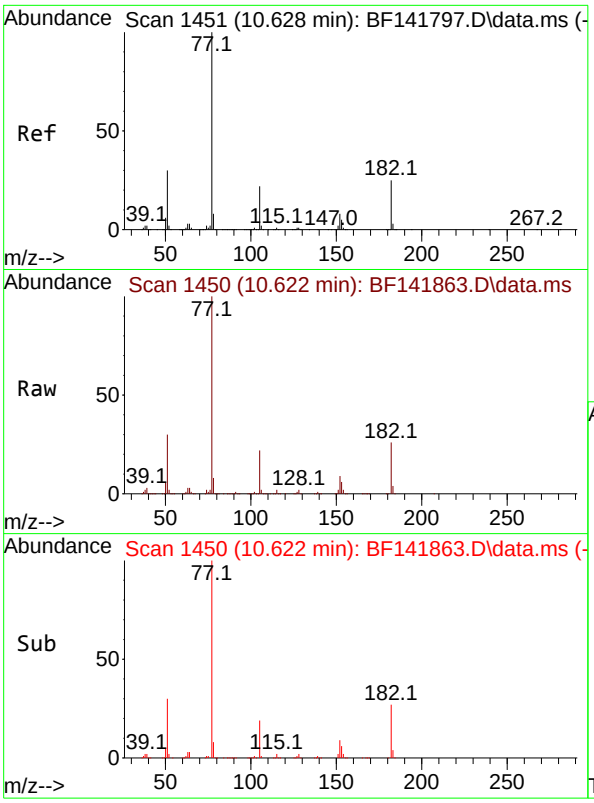


#62
4-Nitroaniline
Concen: 60.958 ng
RT: 10.486 min Scan# 1427
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:138 Resp: 319616

Ion	Ratio	Lower	Upper
138	100		
92	52.1	34.9	74.9
108	79.2	59.6	99.6

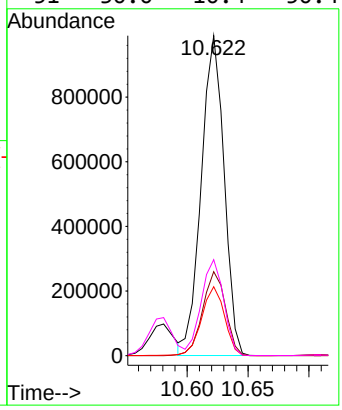




#63
Azobenzene
Concen: 39.805 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion: 77 Resp: 128998

Ion	Ratio	Lower	Upper
77	100		
182	26.3	4.2	44.2
105	21.6	1.5	41.5
51	30.0	10.4	50.4



Instrument :
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ClientSampleId :
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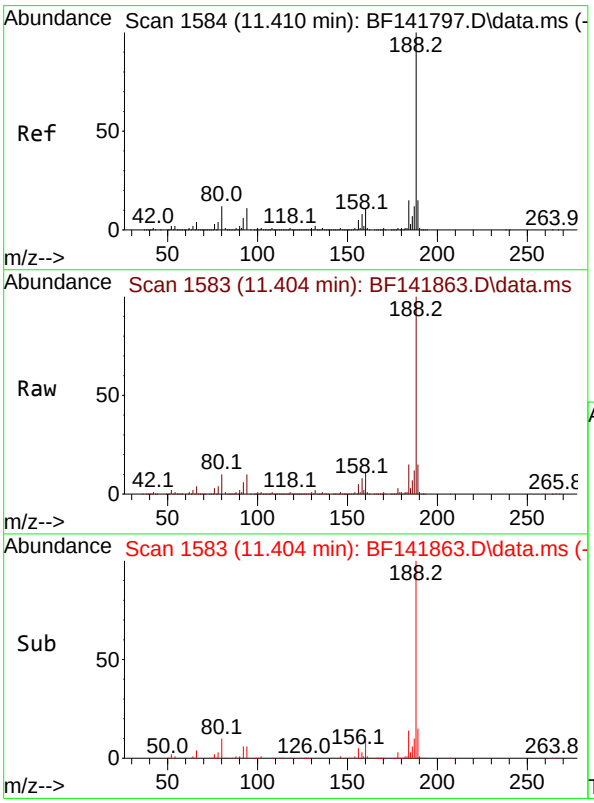
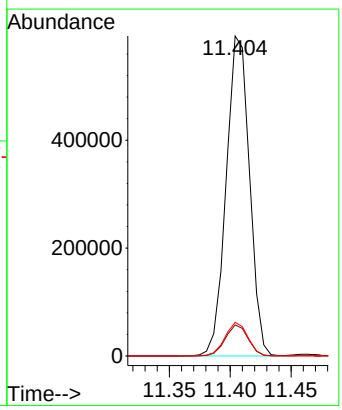
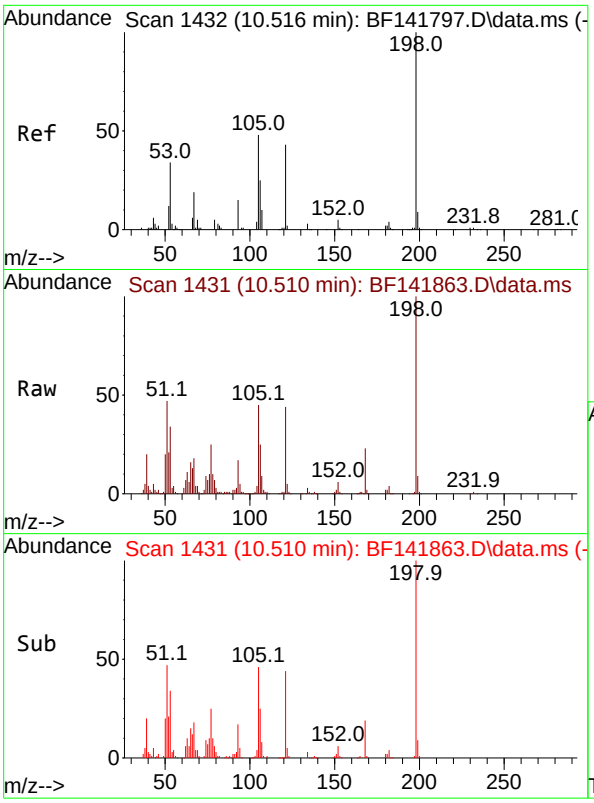


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:188 Resp: 790298

Ion	Ratio	Lower	Upper
188	100		
94	9.7	8.9	13.3
80	10.5	9.7	14.5





#65
4,6-Dinitro-2-methylphenol
Concen: 59.526 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:198 Resp: 23026

Ion	Ratio	Lower	Upper
198	100		
51	46.7	32.1	72.1
105	45.2	28.5	68.5

Instrument :
BNA_F
ClientSampleId :
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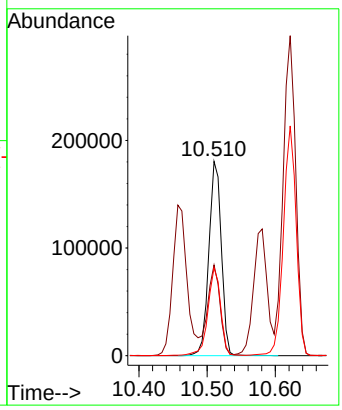
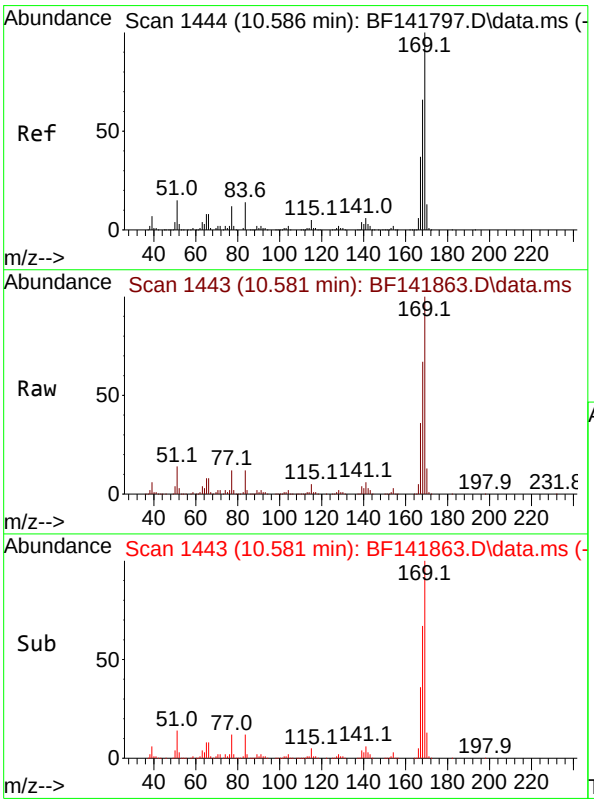
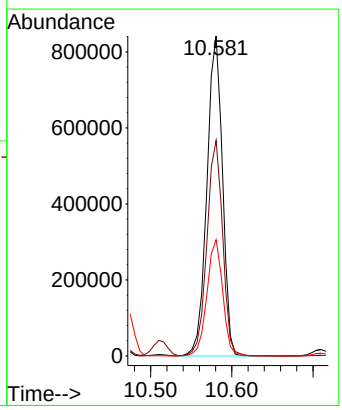


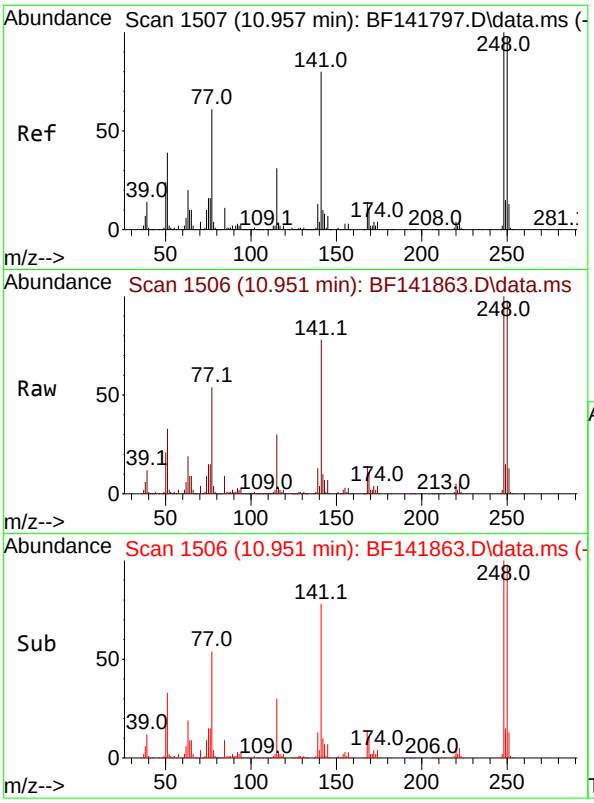


#66
n-Nitrosodiphenylamine
Concen: 42.991 ng
RT: 10.581 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:169 Resp: 1115654

Ion	Ratio	Lower	Upper
169	100		
168	67.4	53.0	79.6
167	36.3	29.3	43.9

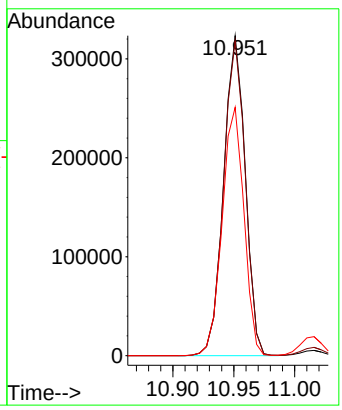




#67
4-Bromophenyl-phenylether
Concen: 43.426 ng
RT: 10.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:248 Resp: 40086

Ion	Ratio	Lower	Upper
248	100		
250	98.4	78.1	117.1
141	77.6	64.3	96.5



Instrument :
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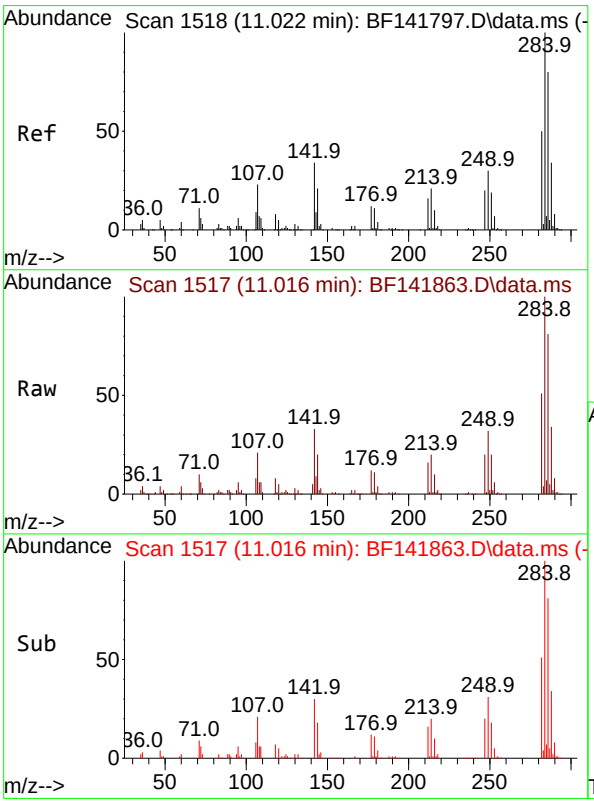
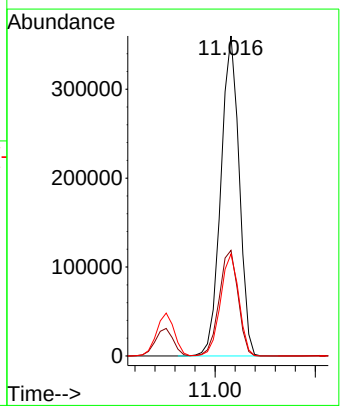
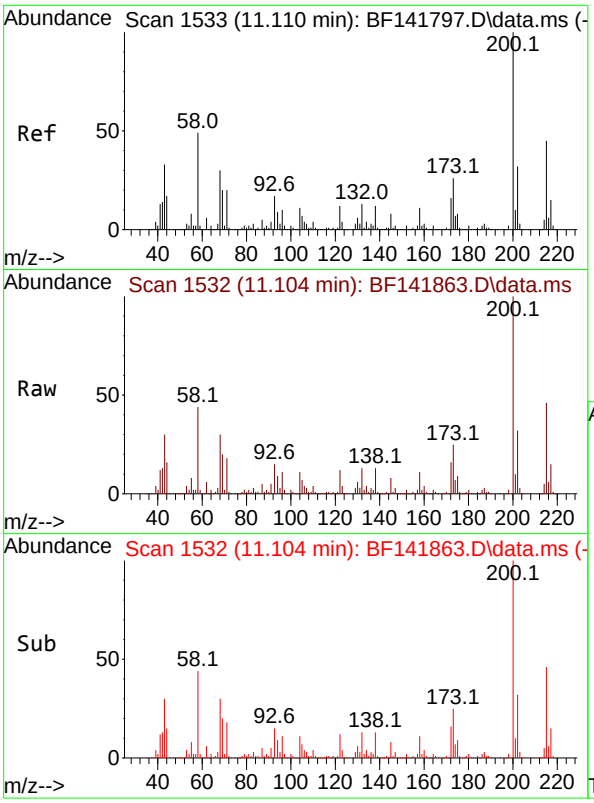


#68
Hexachlorobenzene
Concen: 46.749 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:284 Resp: 455692

Ion	Ratio	Lower	Upper
284	100		
142	33.0	28.2	42.2
249	31.8	25.5	38.3

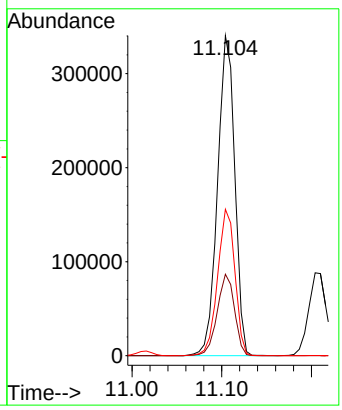




#69
Atrazine
Concen: 63.698 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:200 Resp: 45456

Ion	Ratio	Lower	Upper
200	100		
173	25.5	5.6	45.6
215	45.8	25.3	65.3



Instrument :
BNA_F
ClientSampleId :
PB166982BSD

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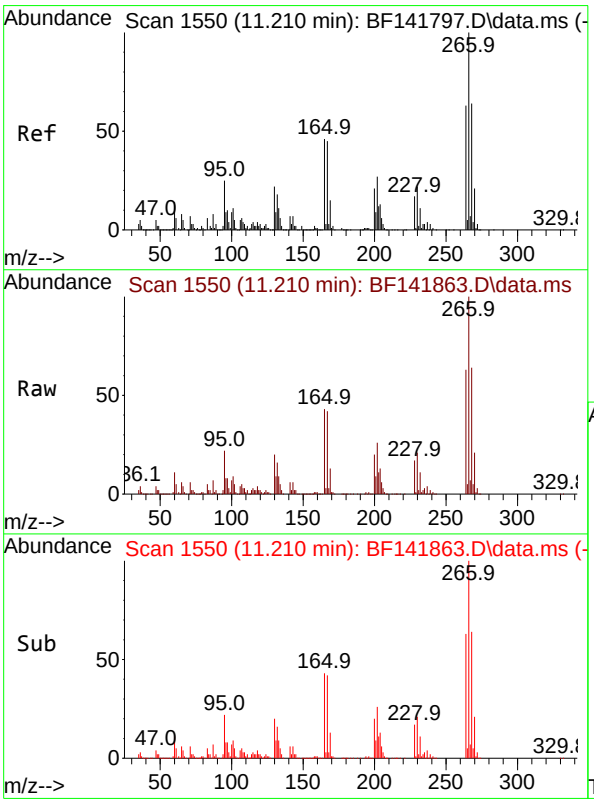
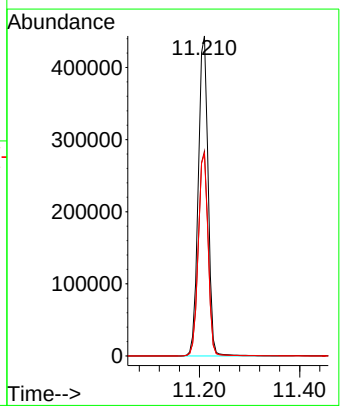
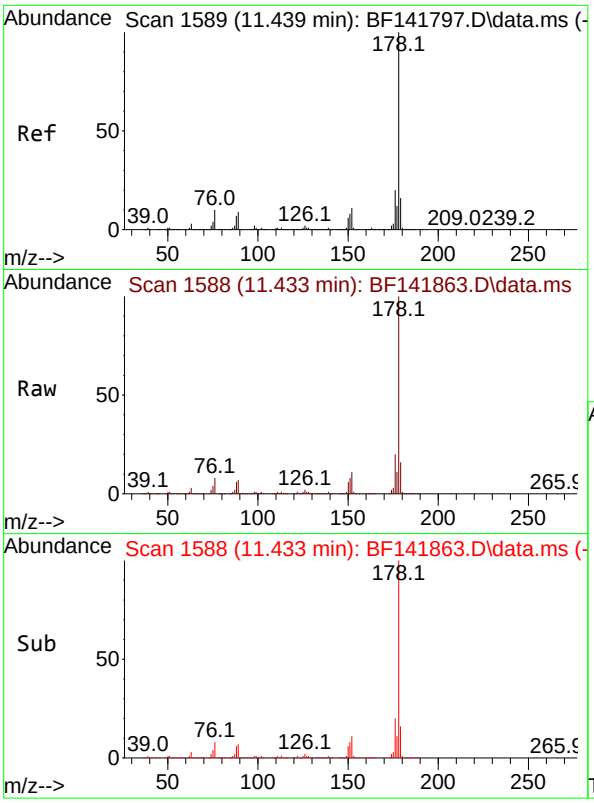


#70
Pentachlorophenol
Concen: 97.260 ng
RT: 11.210 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:266 Resp: 601294

Ion	Ratio	Lower	Upper
266	100		
268	64.0	50.9	76.3
264	63.2	50.2	75.4

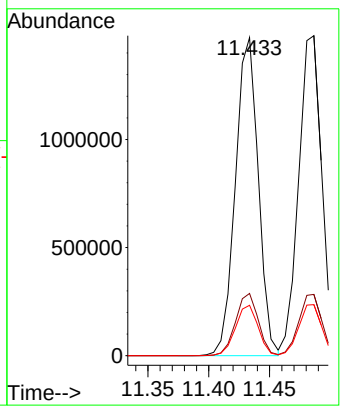




#71
Phenanthrene
Concen: 45.494 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:178 Resp: 192319

Ion	Ratio	Lower	Upper
178	100		
176	19.6	16.0	24.0
179	15.9	12.6	19.0



Instrument :
BNA_F
ClientSampleId :
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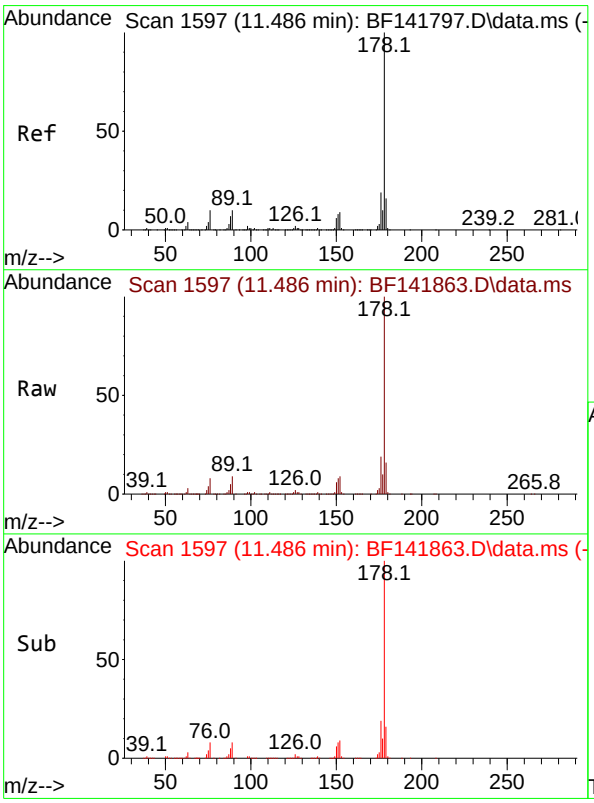
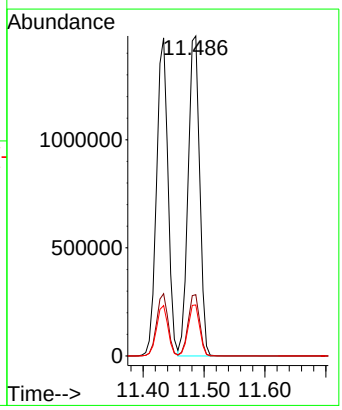
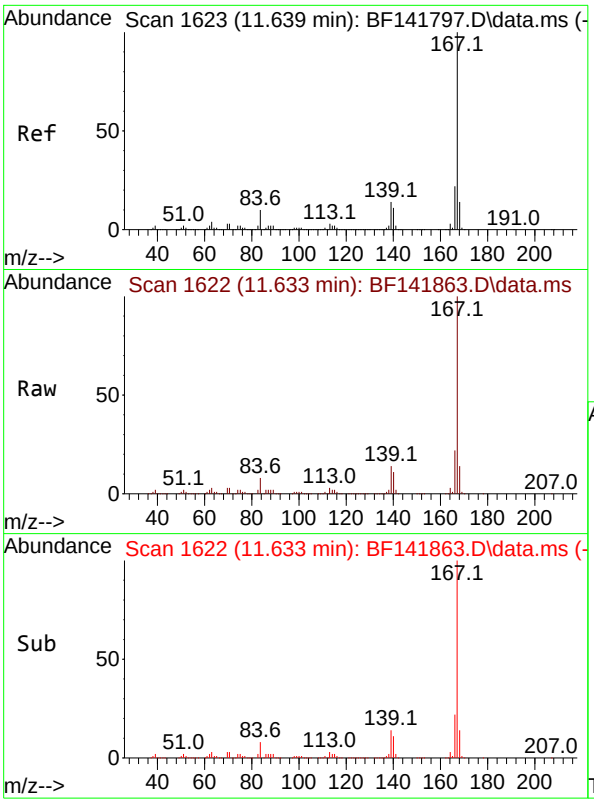


#72
Anthracene
Concen: 46.084 ng
RT: 11.486 min Scan# 1597
Delta R.T. 0.000 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:178 Resp: 1952460

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	16.0	12.8	19.2





#73
Carbazole
Concen: 46.406 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:167 Resp: 173619

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.5	26.3
139	14.0	11.3	16.9

Instrument :
BNA_F
ClientSampleId :
PB166982BSD

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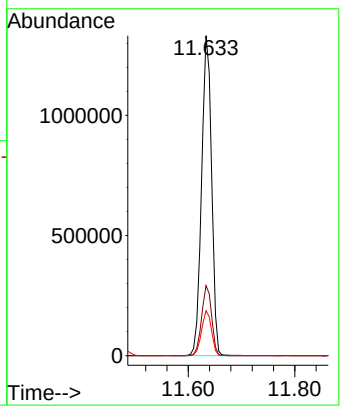
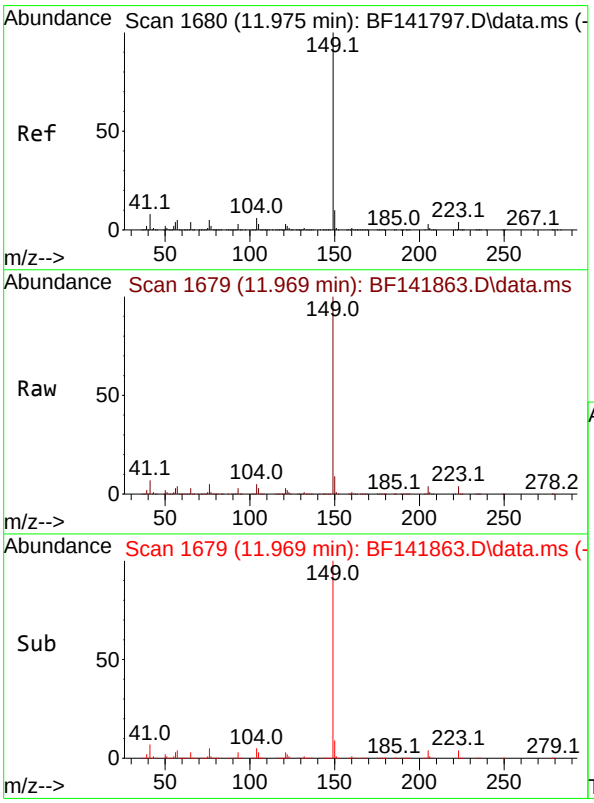
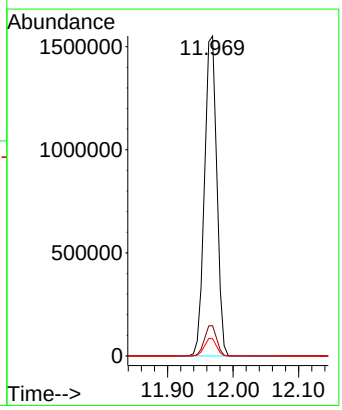


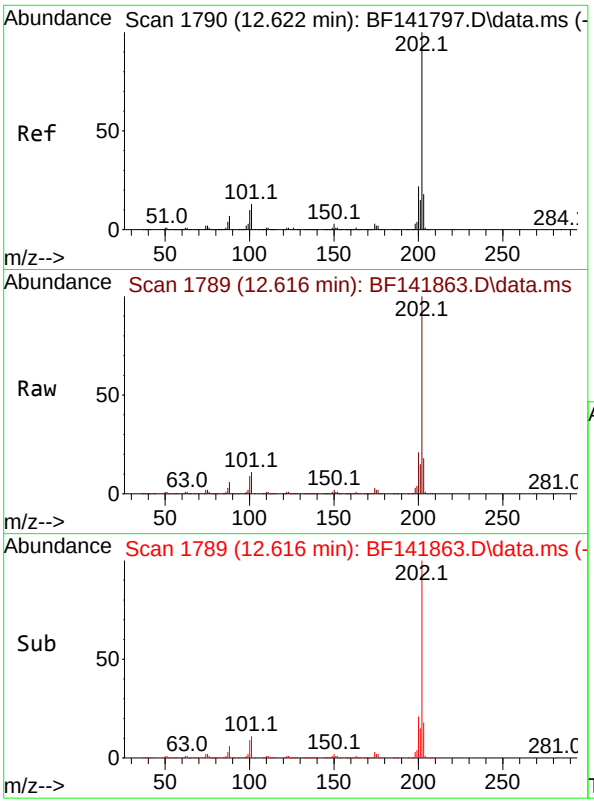


#74
Di-n-butylphthalate
Concen: 42.719 ng
RT: 11.969 min Scan# 1679
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:149 Resp: 2025906

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.7	11.5
104	5.4	4.4	6.6

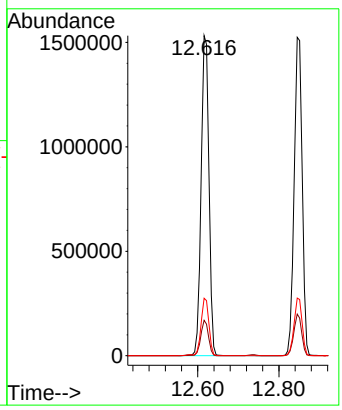




#75
Fluoranthene
Concen: 47.405 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:202 Resp: 205337

Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	32.8
203	17.9	0.0	38.0



Instrument :
BNA_F
ClientSampleId :
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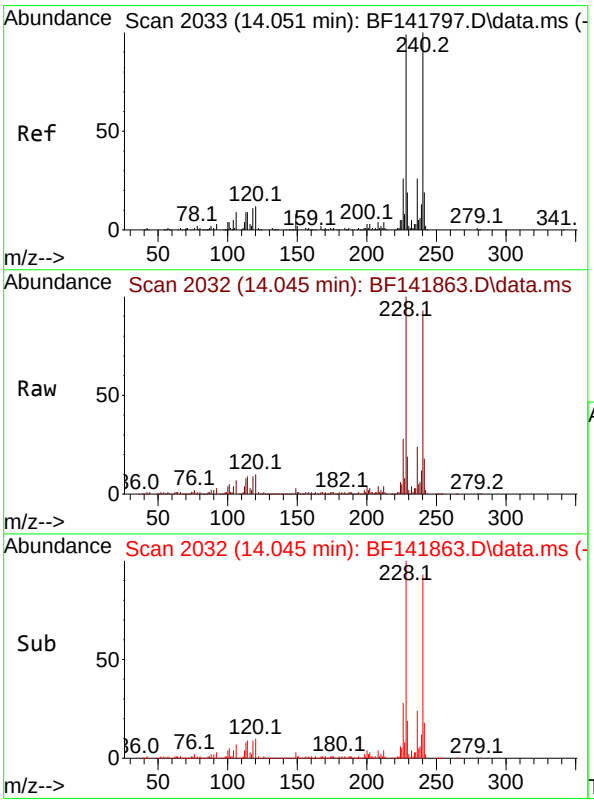
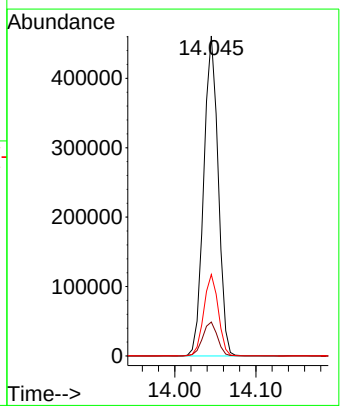
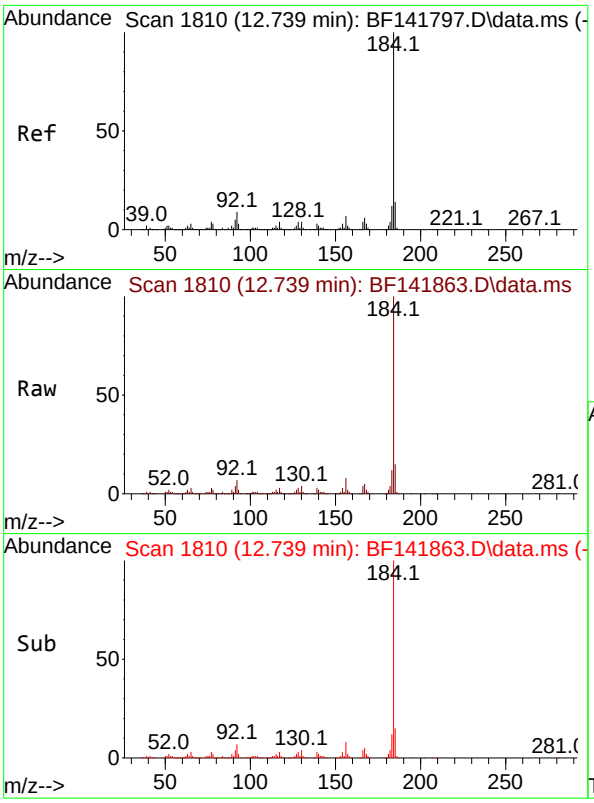


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:240 Resp: 569230

Ion	Ratio	Lower	Upper
240	100		
120	10.6	9.7	14.5
236	25.5	21.0	31.4

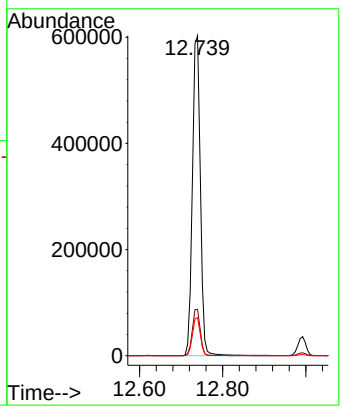




#77
Benzidine
Concen: 111.640 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:184 Resp: 79985

Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.6	17.4
183	11.9	9.4	14.0



Instrument :
BNA_F
ClientSampleId :
PB166982BSD

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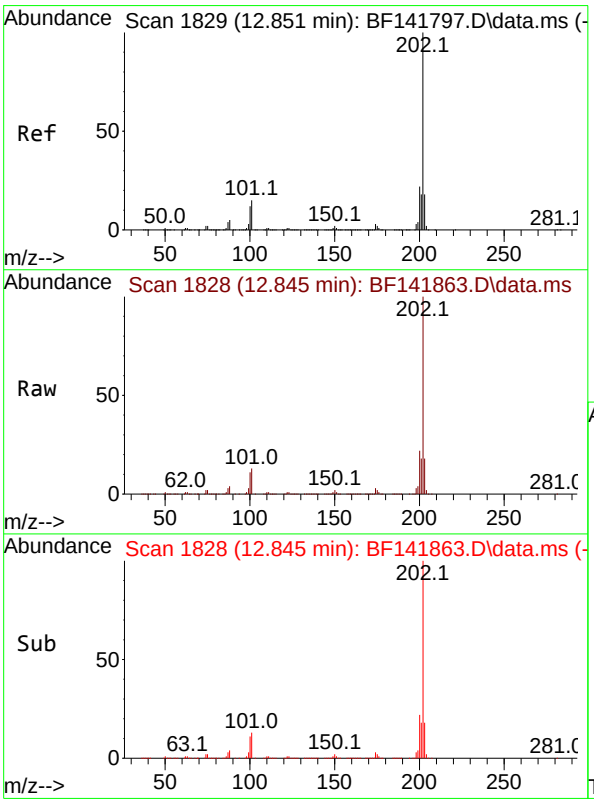
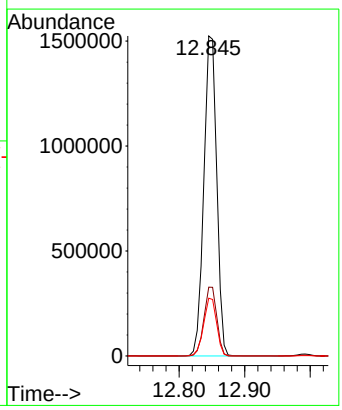
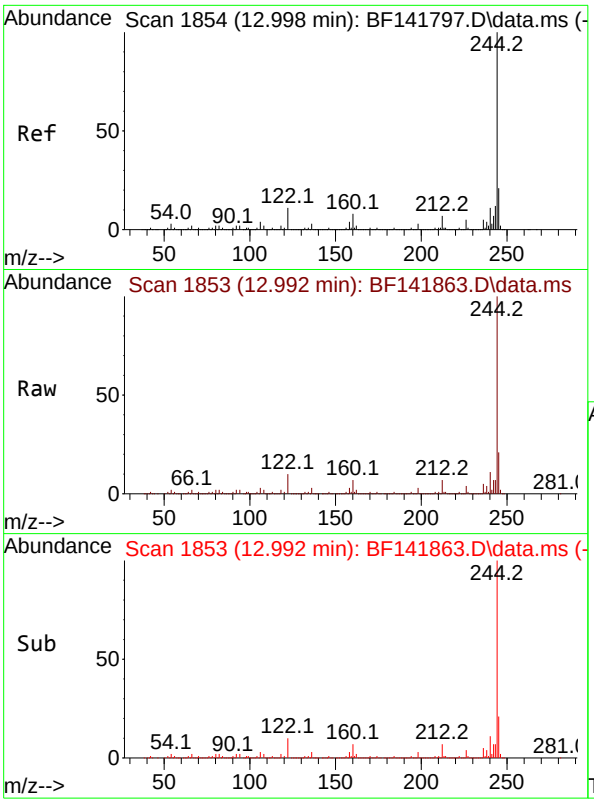


#78
Pyrene
Concen: 42.306 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:202 Resp: 2085318

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.4	26.0
203	18.1	14.6	22.0

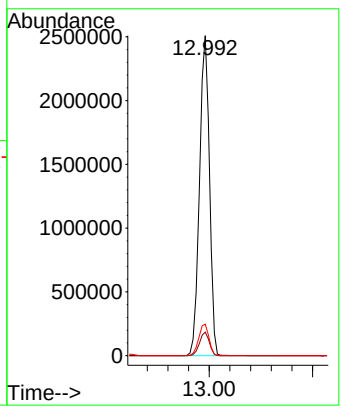




#79
Terphenyl-d14
Concen: 95.090 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:244 Resp: 334553

Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.0	9.0
122	9.8	9.0	13.6



Instrument :
BNA_F
ClientSampleId :
PB166982BSD

Manual Integrations
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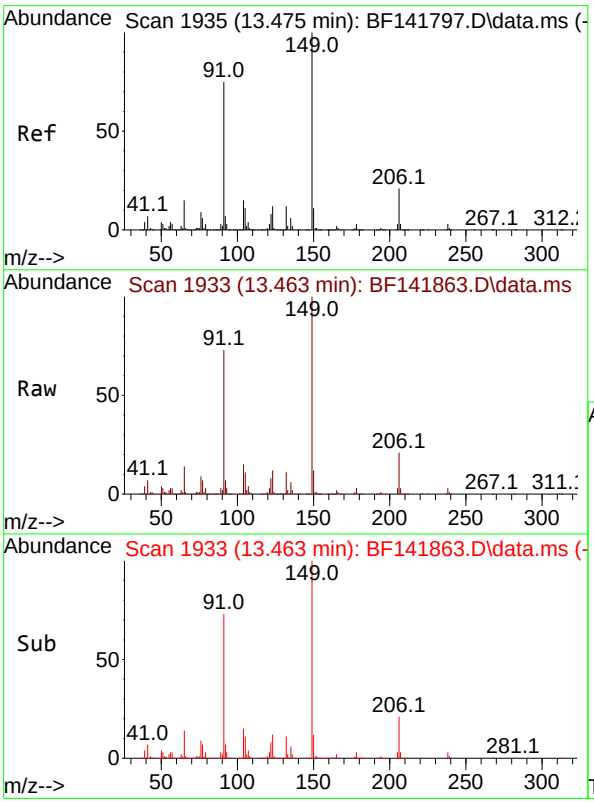
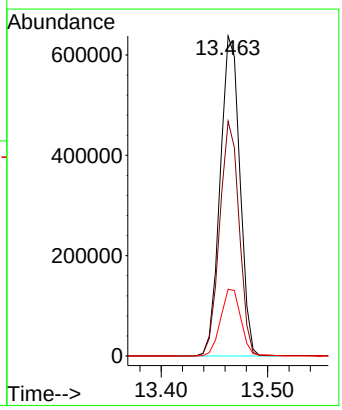
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

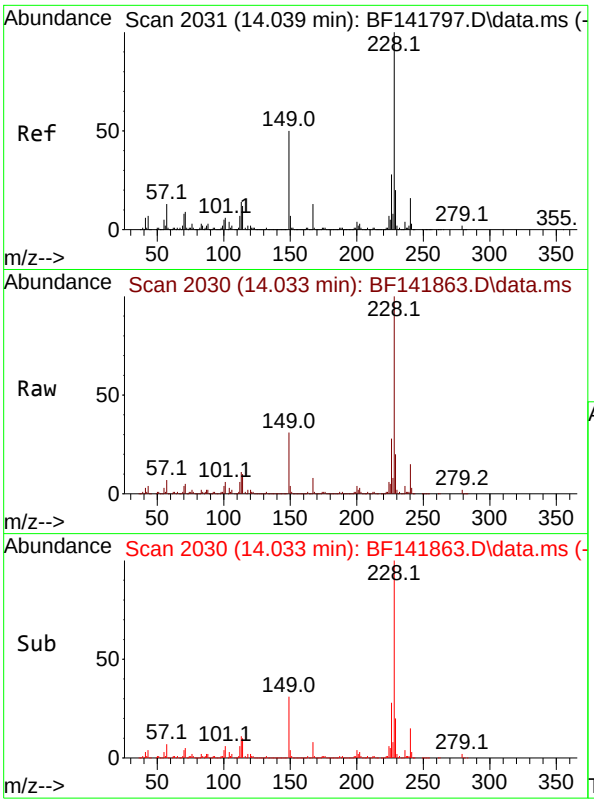


#80
Butylbenzylphthalate
Concen: 45.705 ng
RT: 13.463 min Scan# 1933
Delta R.T. -0.012 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:149 Resp: 818517

Ion	Ratio	Lower	Upper
149	100		
91	73.3	60.1	90.1
206	20.9	16.8	25.2

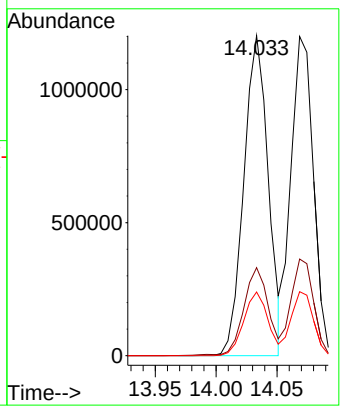




#81
Benzo(a)anthracene
Concen: 44.583 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:228 Resp: 167626

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.1	33.1
229	19.9	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
PB166982BSD

Manual Integrations
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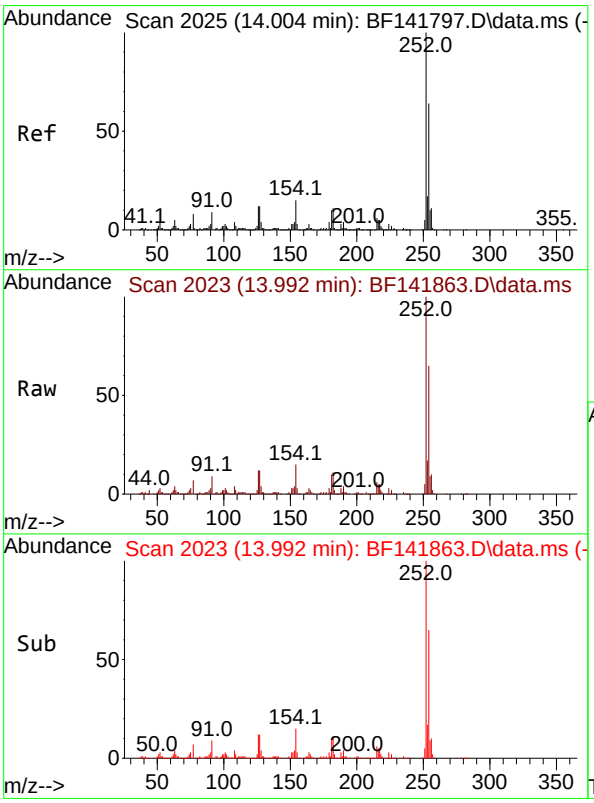
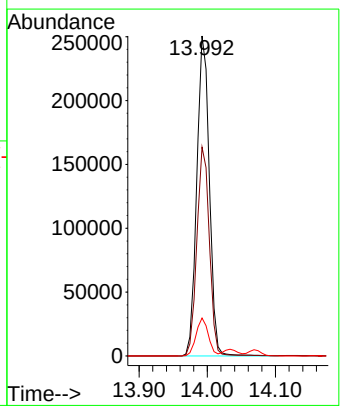
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

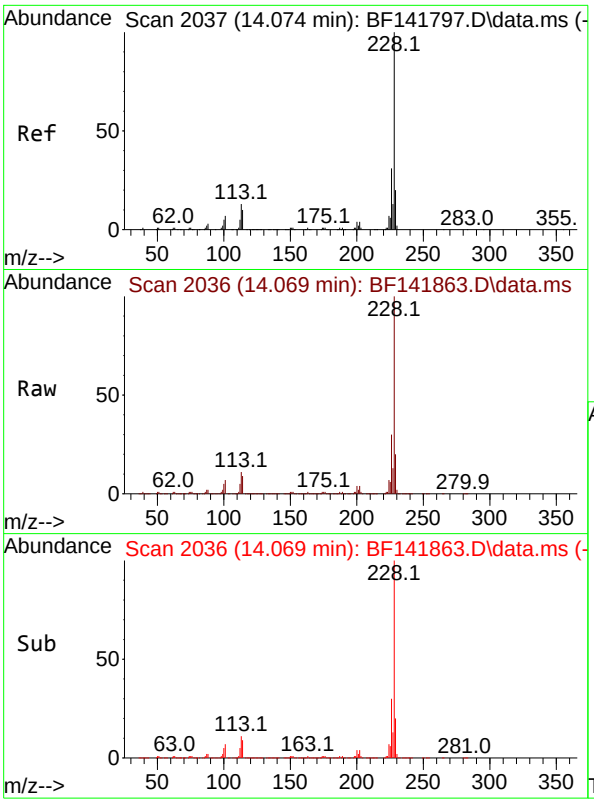


#82
3,3'-Dichlorobenzidine
Concen: 29.725 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:252 Resp: 320647

Ion	Ratio	Lower	Upper
252	100		
254	65.2	51.4	77.0
126	11.9	9.8	14.6

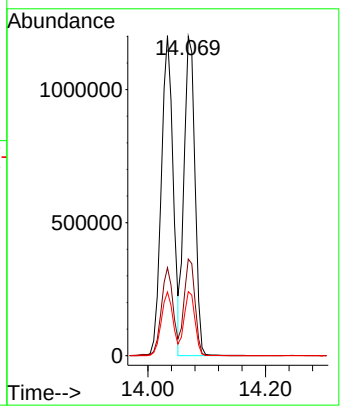




#83
Chrysene
Concen: 44.720 ng
RT: 14.069 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:228 Resp: 154995

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.6	37.0
229	20.1	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
PB166982BSD

Manual Integrations
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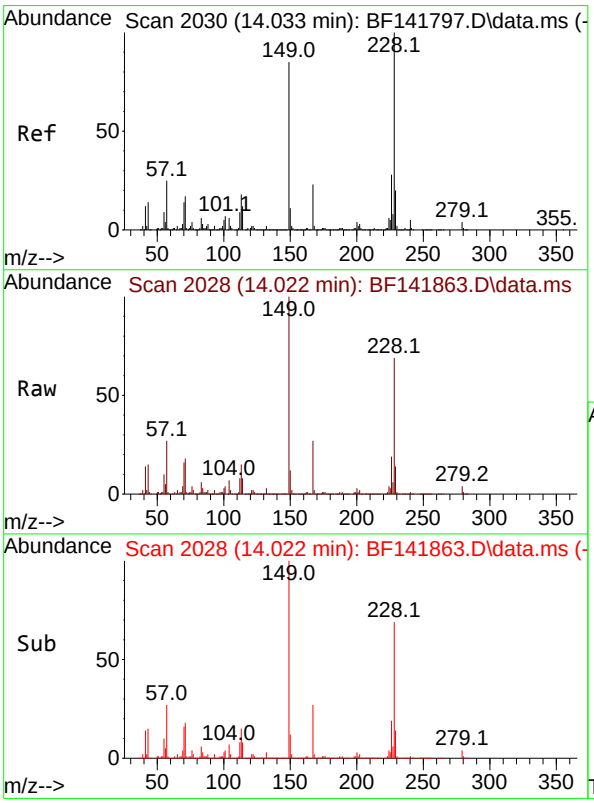
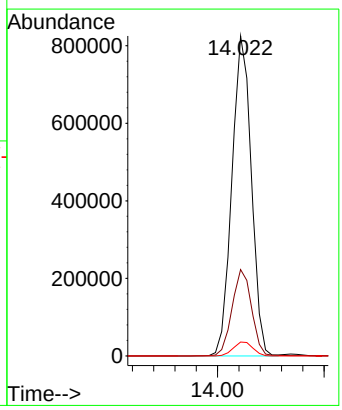
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

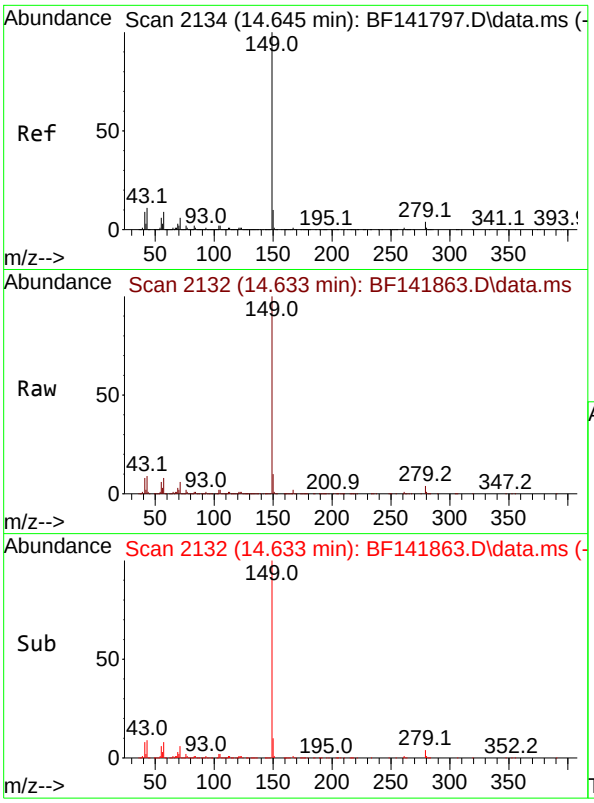


#84
Bis(2-ethylhexyl)phthalate
Concen: 46.892 ng
RT: 14.022 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:149 Resp: 1045650

Ion	Ratio	Lower	Upper
149	100		
167	27.0	21.2	31.8
279	4.4	3.3	4.9





#85
Di-n-octyl phthalate
Concen: 45.774 ng
RT: 14.633 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:149 Resp: 152812

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	9.1	8.6	12.8

Instrument :
BNA_F
ClientSampleId :
PB166982BSD

Manual Integrations
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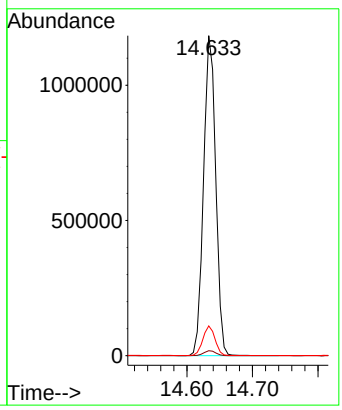
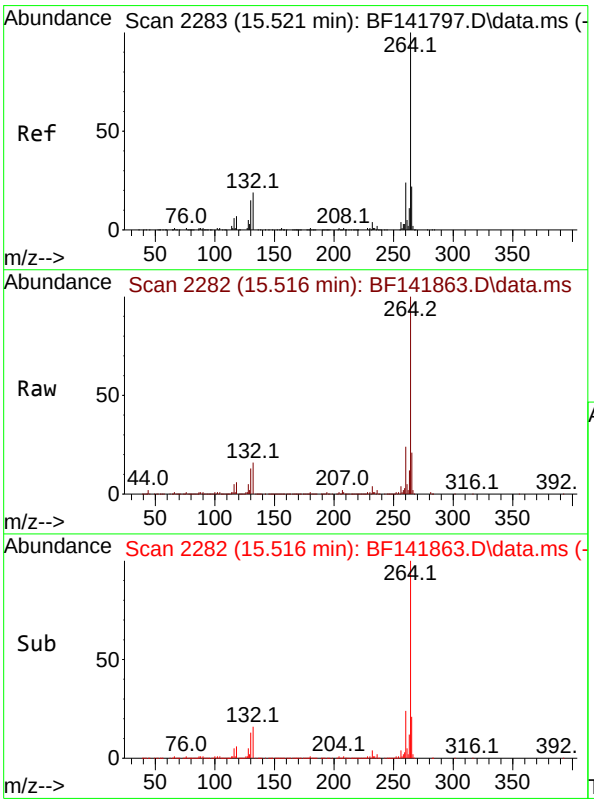
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

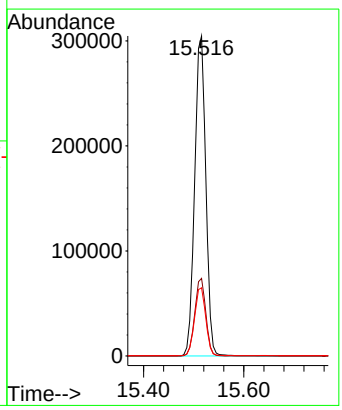


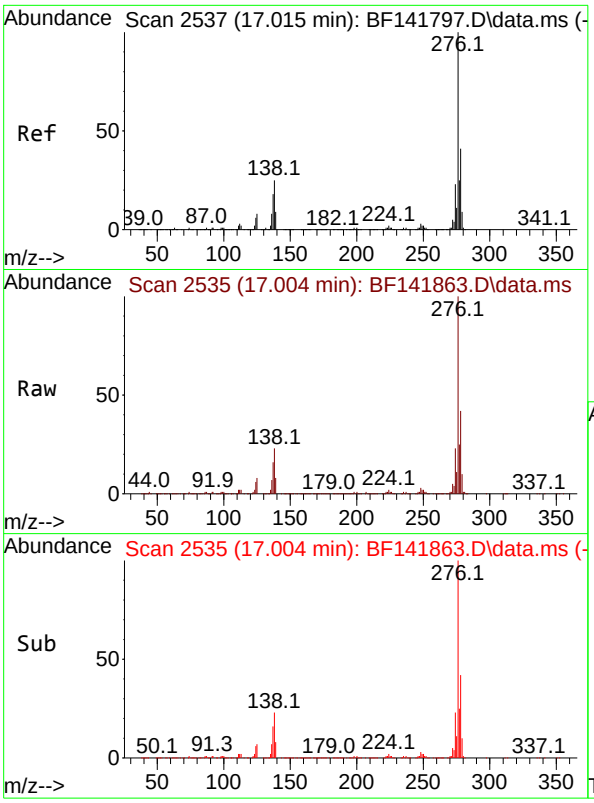


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.516 min Scan# 2282
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:264 Resp: 468514

Ion	Ratio	Lower	Upper
264	100		
260	24.2	18.9	28.3
265	21.3	17.4	26.0

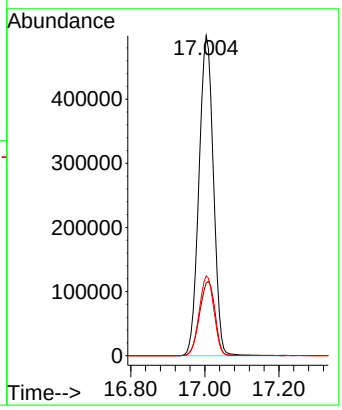




#87
Indeno(1,2,3-cd)pyrene
Concen: 45.269 ng
RT: 17.004 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:276 Resp: 135052

Ion	Ratio	Lower	Upper
276	100		
138	24.8	22.5	33.7
277	25.4	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
PB166982BSD

Manual Integrations
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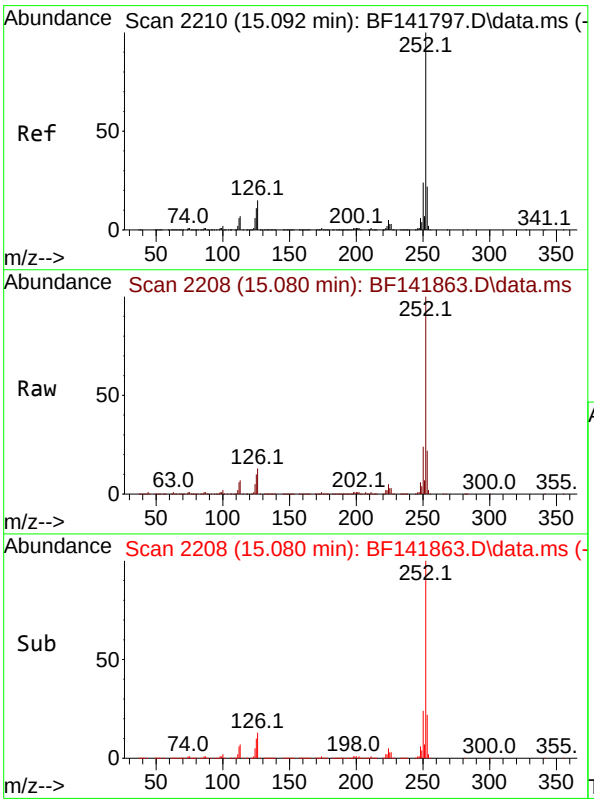
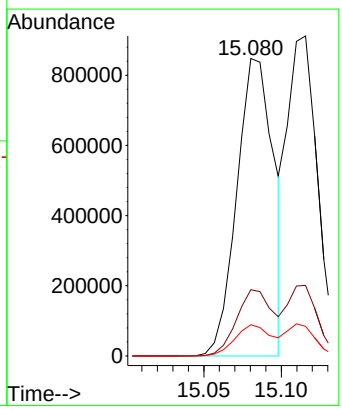
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

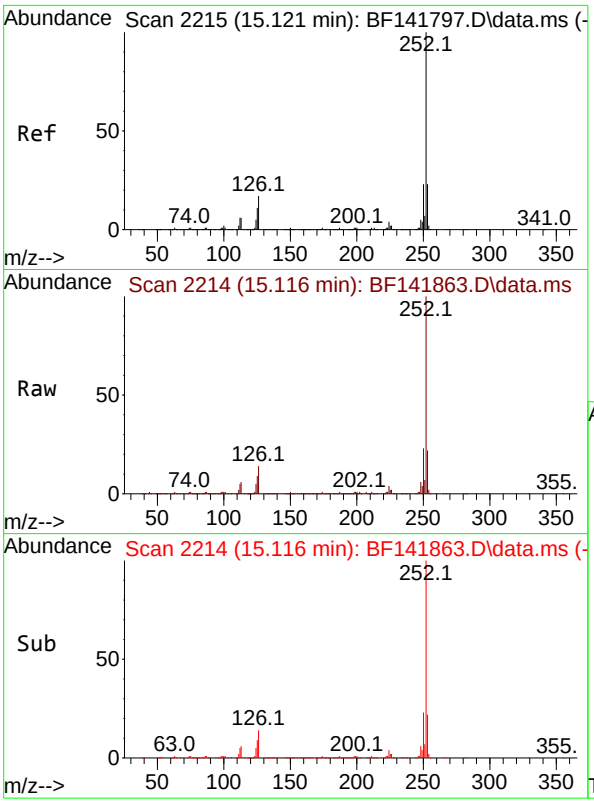


#88
Benzo(b)fluoranthene
Concen: 43.962 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.012 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:252 Resp: 1402993

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	10.5	8.6	13.0

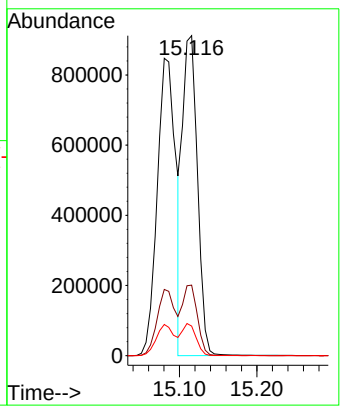




#89
Benzo(k)fluoranthene
Concen: 45.150 ng
RT: 15.116 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:252 Resp: 122470

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.8
125	9.3	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
PB166982BSD

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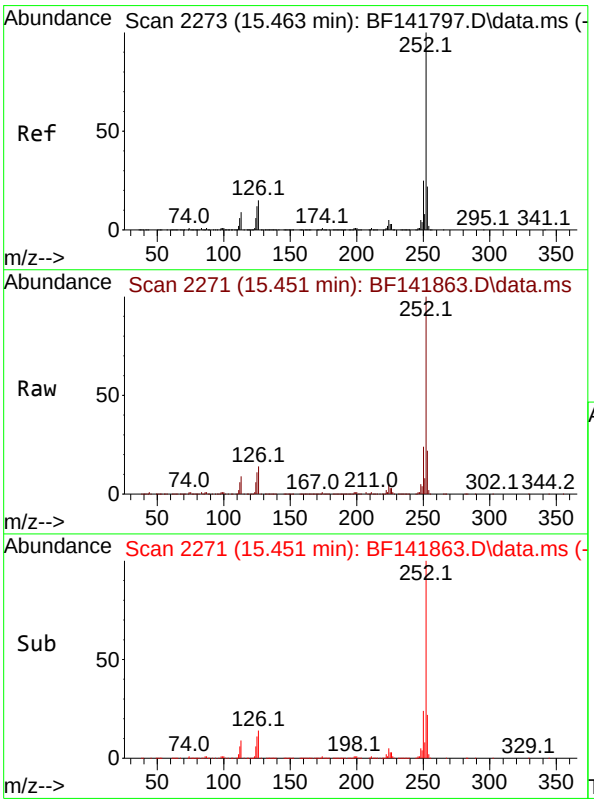
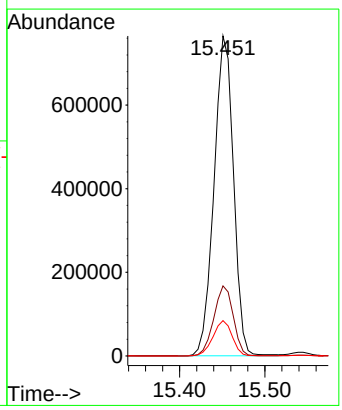
Supervised By :Jagrut Upadhyay 03/07/2025

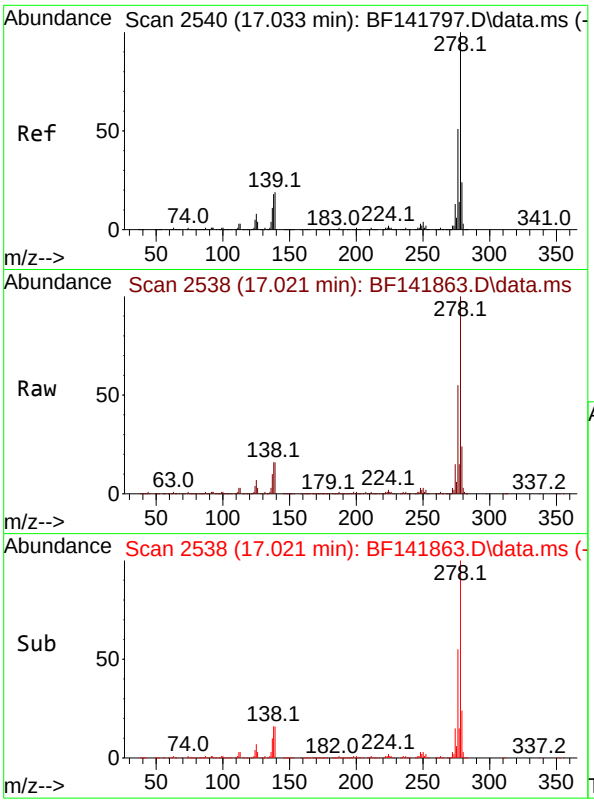


#90
Benzo(a)pyrene
Concen: 47.474 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:252 Resp: 1215083

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	11.1	9.4	14.2

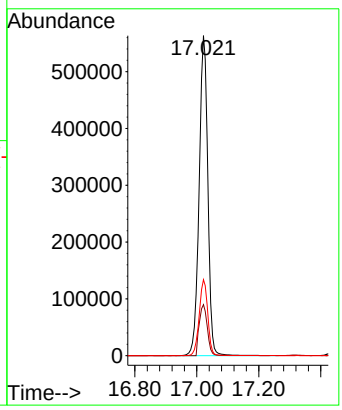




#91
Dibenzo(a,h)anthracene
Concen: 44.973 ng
RT: 17.021 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:278 Resp: 109517

Ion	Ratio	Lower	Upper
278	100		
139	15.9	14.9	22.3
279	23.7	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
PB166982BSD

Manual Integrations
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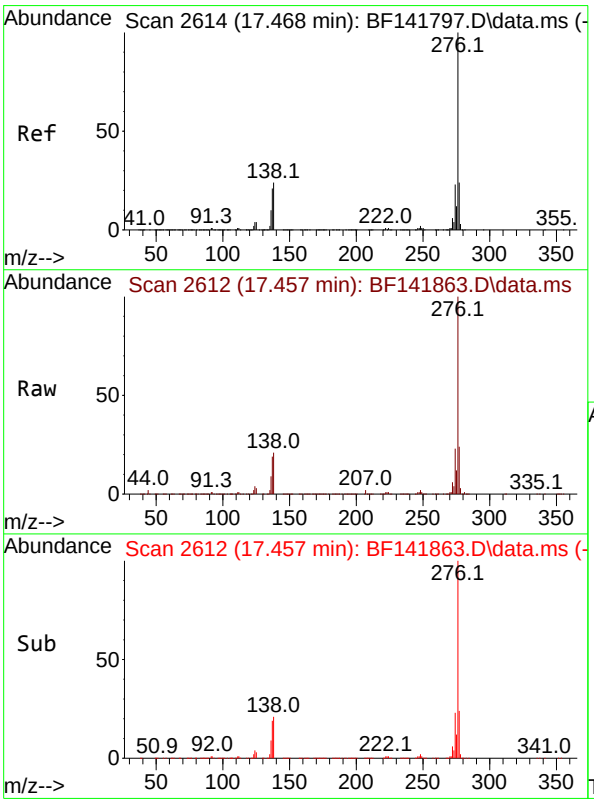
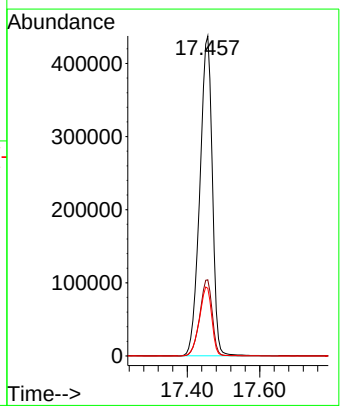
Supervised By :Jagrut Upadhyay 03/07/2025



#92
Benzo(g,h,i)perylene
Concen: 41.770 ng
RT: 17.457 min Scan# 2612
Delta R.T. -0.012 min
Lab File: BF141863.D
Acq: 06 Mar 2025 12:21

Tgt Ion:276 Resp: 1042057

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.4	29.0
138	21.2	19.3	28.9



Raw Data: **BF141844.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	DN-B-42MS	SDG No.:	Q1488
Lab Sample ID:	Q1487-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
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
BF141844.D	1	03/05/25 09:40	03/05/25 15:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	850		210	370	ug/Kg
108-95-2	Phenol	1600		94.0	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		94.9	190	ug/Kg
95-57-8	2-Chlorophenol	1600		94.7	190	ug/Kg
95-48-7	2-Methylphenol	1600		91.4	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		100	190	ug/Kg
98-86-2	Acetophenone	1700		98.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	1600		90.5	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		45.7	90.7	ug/Kg
67-72-1	Hexachloroethane	1600		94.1	190	ug/Kg
98-95-3	Nitrobenzene	1800		100	190	ug/Kg
78-59-1	Isophorone	1600		95.9	190	ug/Kg
88-75-5	2-Nitrophenol	1900		110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2000		110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		97.3	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		85.6	190	ug/Kg
91-20-3	Naphthalene	1600		93.7	190	ug/Kg
106-47-8	4-Chloroaniline	910		93.7	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		94.5	190	ug/Kg
105-60-2	Caprolactam	1900		98.4	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		87.9	190	ug/Kg
91-57-6	2-Methylnaphthalene	1500		93.6	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4800	E	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		81.0	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1800		83.9	190	ug/Kg
92-52-4	1,1-Biphenyl	1800		99.1	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		94.5	190	ug/Kg
88-74-4	2-Nitroaniline	1900		110	190	ug/Kg
131-11-3	Dimethylphthalate	1600		92.6	190	ug/Kg

Raw Data: **BF141844.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	DN-B-42MS	SDG No.:	Q1488
Lab Sample ID:	Q1487-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
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
BF141844.D	1	03/05/25 09:40	03/05/25 15:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1700		98.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		94.3	190	ug/Kg
99-09-2	3-Nitroaniline	1300		100	190	ug/Kg
83-32-9	Acenaphthene	1700		92.0	190	ug/Kg
51-28-5	2,4-Dinitrophenol	2700		280	370	ug/Kg
100-02-7	4-Nitrophenol	4200	E	130	370	ug/Kg
132-64-9	Dibenzofuran	1600		95.7	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2000		97.7	190	ug/Kg
84-66-2	Diethylphthalate	1500		90.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		97.1	190	ug/Kg
86-73-7	Fluorene	1600		97.0	190	ug/Kg
100-01-6	4-Nitroaniline	1900		120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		92.5	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		89.5	190	ug/Kg
118-74-1	Hexachlorobenzene	1700		96.4	190	ug/Kg
1912-24-9	Atrazine	2400		100	190	ug/Kg
87-86-5	Pentachlorophenol	3200	E	87.7	370	ug/Kg
85-01-8	Phenanthrene	1700		95.3	190	ug/Kg
120-12-7	Anthracene	1700		95.7	190	ug/Kg
86-74-8	Carbazole	1700		91.1	190	ug/Kg
84-74-2	Di-n-butylphthalate	1500		95.6	190	ug/Kg
206-44-0	Fluoranthene	1500		92.6	190	ug/Kg
129-00-0	Pyrene	1400		94.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	1400		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1800		110	370	ug/Kg
56-55-3	Benzo(a)anthracene	1700		91.5	190	ug/Kg
218-01-9	Chrysene	1600		90.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1400		100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1700		120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		92.0	190	ug/Kg

Raw Data: **BF141844.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	DN-B-42MS	SDG No.:	Q1488
Lab Sample ID:	Q1487-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
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
BF141844.D	1	03/05/25 09:40	03/05/25 15:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1500		93.7	190	ug/Kg
50-32-8	Benzo(a)pyrene	1700		110	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1300		88.6	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1300		92.1	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1100		90.8	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		98.4	190	ug/Kg
123-91-1	1,4-Dioxane	1600		120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		84.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	107		30 (18) - 130 (112)	71%	SPK: 150
13127-88-3	Phenol-d6	102		30 (15) - 130 (107)	68%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.4		30 (18) - 130 (107)	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.3		30 (20) - 130 (109)	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	113		30 (10) - 130 (116)	76%	SPK: 150
1718-51-0	Terphenyl-d14	55.5		30 (10) - 130 (105)	56%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	192000	6.886			
1146-65-2	Naphthalene-d8	734000	8.169			
15067-26-2	Acenaphthene-d10	370000	9.922			
1517-22-2	Phenanthrene-d10	565000	11.404			
1719-03-5	Chrysene-d12	409000	14.039			
1520-96-3	Perylene-d12	473000	15.509			

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: **BF141844.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141844.D
Acq On : 05 Mar 2025 15:21
Operator : RC/JU
Sample : Q1487-01MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 05 15:58:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	192210	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	734232	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	370025	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	565314	20.000	ng	0.00
76) Chrysene-d12	14.039	240	409462	20.000	ng	-0.01
86) Perylene-d12	15.509	264	473342	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	1284833	106.751	ng	0.00
7) Phenol-d6	6.504	99	1597457	101.972	ng	0.00
23) Nitrobenzene-d5	7.445	82	1004018	87.407	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	393680	113.326	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1691234	73.287	ng	0.00
79) Terphenyl-d14	12.986	244	1404647	55.502	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.710	88	228610	41.861	ng	98
3) Pyridine	3.475	79	539964	39.738	ng	98
4) n-Nitrosodimethylamine	3.416	42	280375	42.884	ng	95
6) Aniline	6.545	93	612696	37.620	ng	100
8) 2-Chlorophenol	6.669	128	564761	43.377	ng	97
9) Benzaldehyde	6.434	77	204683	22.462	ng	99
10) Phenol	6.522	94	725989	43.368	ng	98
11) bis(2-Chloroethyl)ether	6.622	93	526773	41.282	ng	96
12) 1,3-Dichlorobenzene	6.828	146	593769	42.585	ng	100
13) 1,4-Dichlorobenzene	6.904	146	605338	43.087	ng	99
14) 1,2-Dichlorobenzene	7.057	146	577487	44.019	ng	98
15) Benzyl Alcohol	7.022	79	492984	39.376	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	729509	37.645	ng	100
17) 2-Methylphenol	7.128	107	448607	41.743	ng	100
18) Hexachloroethane	7.398	117	223054	42.419	ng	99
19) n-Nitroso-di-n-propyla...	7.292	70	384941	37.380	ng	98
20) 3+4-Methylphenols	7.281	107	568592	42.489	ng	96
22) Acetophenone	7.292	105	827134	46.254	ng	97
24) Nitrobenzene	7.463	77	588435	47.838	ng	99
25) Isophorone	7.704	82	1023670	41.482	ng	98
26) 2-Nitrophenol	7.780	139	272681	49.470	ng	98
27) 2,4-Dimethylphenol	7.810	122	475901	52.462	ng	99
28) bis(2-Chloroethoxy)met...	7.910	93	615055	39.071	ng	100
29) 2,4-Dichlorophenol	8.016	162	443054	42.337	ng	99
30) 1,2,4-Trichlorobenzene	8.104	180	484159	42.221	ng	99
31) Naphthalene	8.186	128	1565470	41.484	ng	99
32) Benzoic acid	7.910	122	353009m	46.845	ng	
33) 4-Chloroaniline	8.233	127	332297	24.016	ng	98
34) Hexachlorobutadiene	8.304	225	301524	42.314	ng	99
35) Caprolactam	8.592	113	165832	51.511	ng	93
36) 4-Chloro-3-methylphenol	8.704	107	477385	41.065	ng	99
37) 2-Methylnaphthalene	8.880	142	971643	39.255	ng	100
38) 1-Methylnaphthalene	8.975	142	949369	39.973	ng	99
40) 1,2,4,5-Tetrachloroben...	9.045	216	515221	48.211	ng	99
41) Hexachlorocyclopentadiene	9.033	237	565053	126.697	ng	99
43) 2,4,6-Trichlorophenol	9.151	196	313746	45.449	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141844.D
Acq On : 05 Mar 2025 15:21
Operator : RC/JU
Sample : Q1487-01MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

Quant Time: Mar 05 15:58:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	323494	47.324	ng		99
46) 1,1'-Biphenyl	9.339	154	1353556	48.058	ng		99
47) 2-Chloronaphthalene	9.369	162	928972	44.688	ng		98
48) 2-Nitroaniline	9.457	65	291855	50.994	ng		95
49) Acenaphthylene	9.780	152	1433535	45.995	ng		99
50) Dimethylphthalate	9.639	163	1048895	42.329	ng		100
51) 2,6-Dinitrotoluene	9.698	165	232333	48.952	ng		95
52) Acenaphthene	9.957	154	954639	45.394	ng		99
53) 3-Nitroaniline	9.869	138	173093	35.128	ng	#	91
54) 2,4-Dinitrophenol	9.969	184	147123	70.645	ng	#	20
55) Dibenzofuran	10.127	168	1269599	41.477	ng		98
56) 4-Nitrophenol	10.016	139	401998	109.840	ng		99
57) 2,4-Dinitrotoluene	10.104	165	310411	53.198	ng		92
58) Fluorene	10.469	166	971273	42.361	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	259524m	43.653	ng		
60) Diethylphthalate	10.339	149	991255	39.903	ng		99
61) 4-Chlorophenyl-phenyle...	10.463	204	470028	40.915	ng		98
62) 4-Nitroaniline	10.480	138	215910	51.021	ng		96
63) Azobenzene	10.621	77	1080202	41.298	ng		95
65) 4,6-Dinitro-2-methylph...	10.504	198	102419	40.086	ng		98
66) n-Nitrosodiphenylamine	10.574	169	861837	46.428	ng		99
67) 4-Bromophenyl-phenylether	10.951	248	288947	43.759	ng		98
68) Hexachlorobenzene	11.016	284	314028	45.037	ng		98
69) Atrazine	11.104	200	317462	62.190	ng		99
70) Pentachlorophenol	11.204	266	374526	84.690	ng		99
71) Phenanthrene	11.427	178	1360847	45.003	ng		99
72) Anthracene	11.480	178	1381172	45.574	ng		99
73) Carbazole	11.633	167	1177198	43.987	ng		99
74) Di-n-butylphthalate	11.963	149	1357104	40.005	ng		99
75) Fluoranthene	12.615	202	1240933	40.050	ng		98
77) Benzidine	12.733	184	496999	96.436	ng		100
78) Pyrene	12.845	202	1269067	35.792	ng		99
80) Butylbenzylphthalate	13.462	149	469636	36.456	ng		97
81) Benzo(a)anthracene	14.027	228	1232226	45.561	ng		99
82) 3,3'-Dichlorobenzidine	13.992	252	369769	47.653	ng		100
83) Chrysene	14.068	228	1062387	42.613	ng		99
84) Bis(2-ethylhexyl)phtha...	14.021	149	600275	37.423	ng		100
85) Di-n-octyl phthalate	14.633	149	1108571	46.163	ng		98
87) Indeno(1,2,3-cd)pyrene	16.992	276	1050463	34.852	ng		98
88) Benzo(b)fluoranthene	15.080	252	1389072	43.082	ng		100
89) Benzo(k)fluoranthene	15.109	252	1085392	39.606	ng		99
90) Benzo(a)pyrene	15.451	252	1182996	45.749	ng		99
91) Dibenzo(a,h)anthracene	17.015	278	863598	35.102	ng		98
92) Benzo(g,h,i)perylene	17.445	276	737995	29.280	ng		99

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

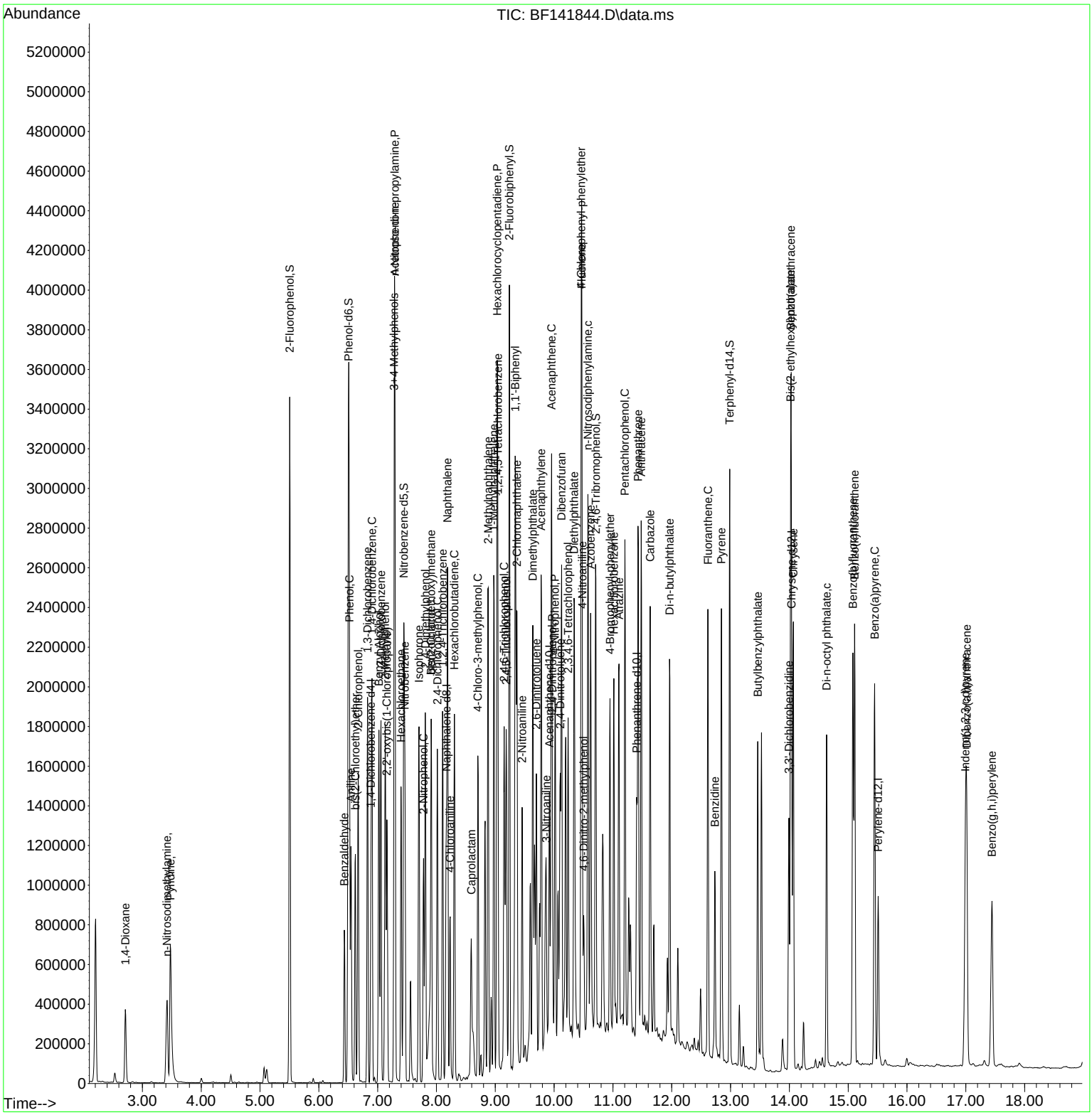
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141844.D
Acq On : 05 Mar 2025 15:21
Operator : RC/JU
Sample : Q1487-01MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

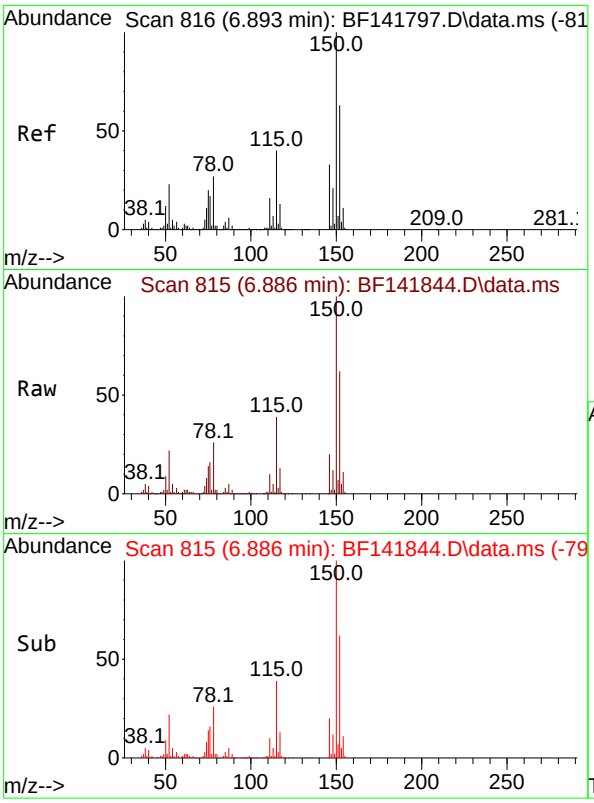
Quant Time: Mar 05 15:58:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

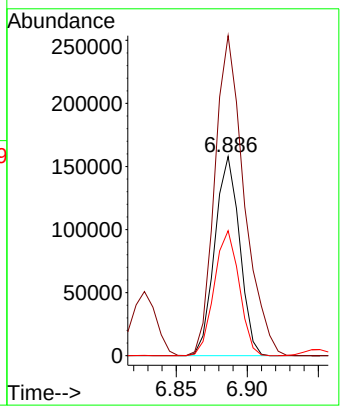




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 8
Delta R.T. -0.007 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:152 Resp: 19221

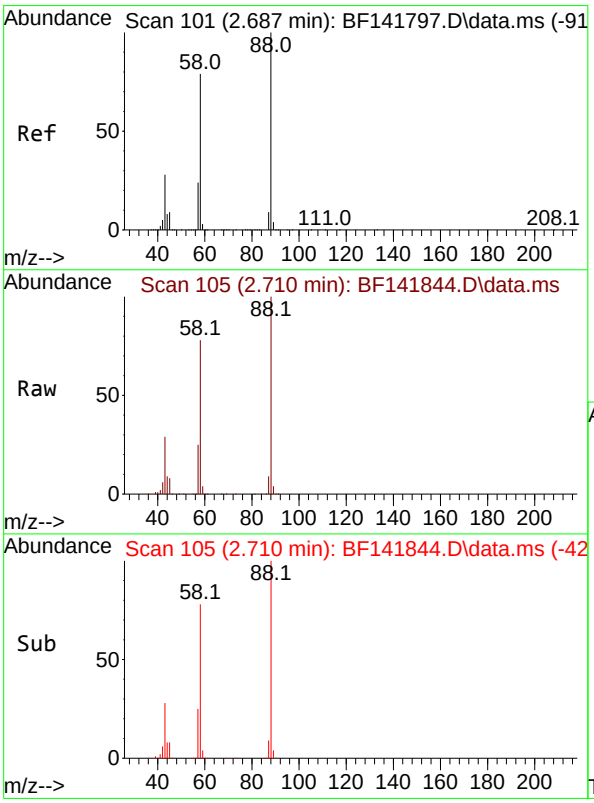
Ion	Ratio	Lower	Upper
152	100		
150	160.6	127.5	191.3
115	62.7	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

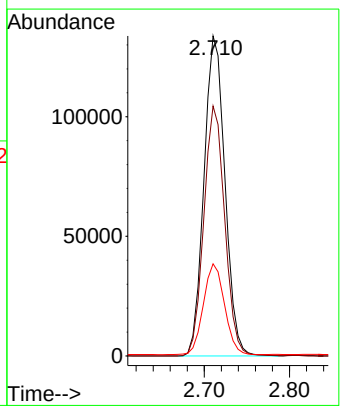
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

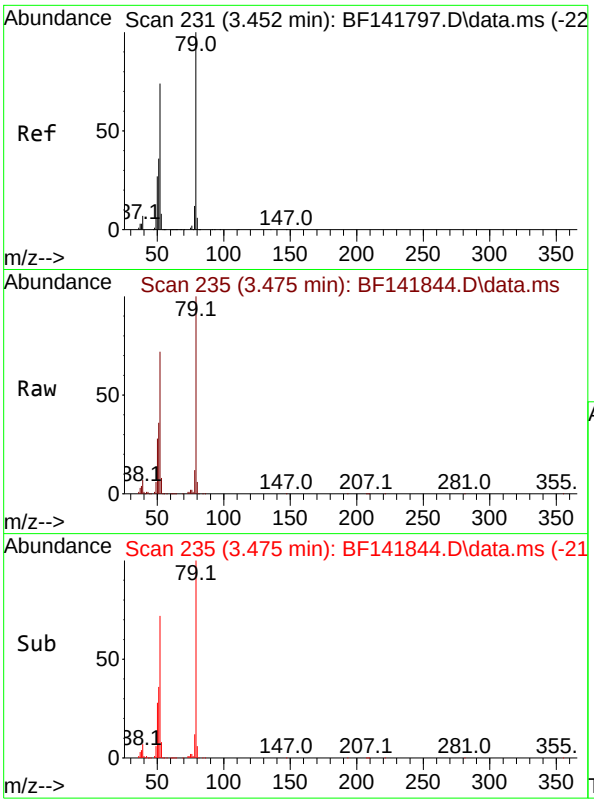


#2
1,4-Dioxane
Concen: 41.861 ng
RT: 2.710 min Scan# 105
Delta R.T. 0.023 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 88 Resp: 228610

Ion	Ratio	Lower	Upper
88	100		
58	77.9	63.9	95.9
43	28.5	23.0	34.6

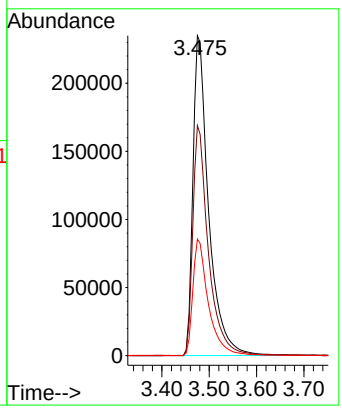




#3
Pyridine
Concen: 39.738 ng
RT: 3.475 min Scan# 2
Delta R.T. 0.023 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 79 Resp: 53996

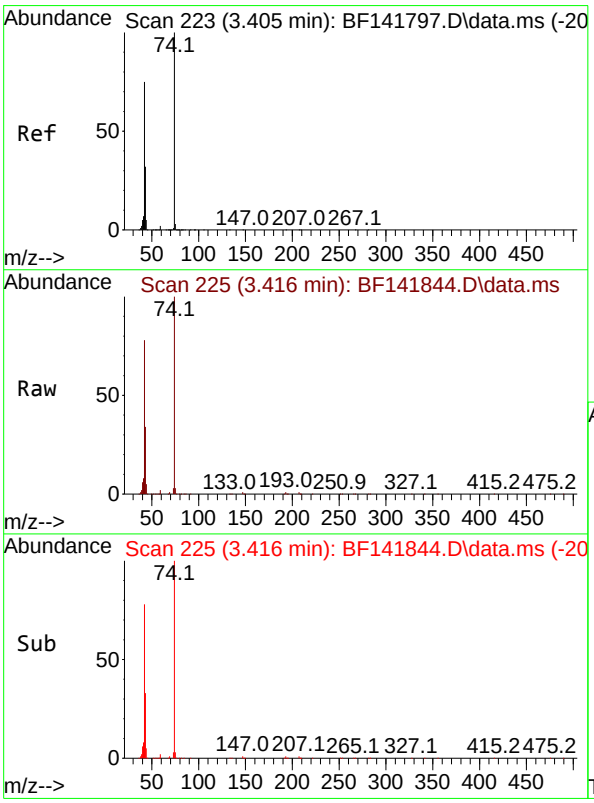
Ion	Ratio	Lower	Upper
79	100		
52	71.9	59.0	88.4
51	36.5	29.0	43.4



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

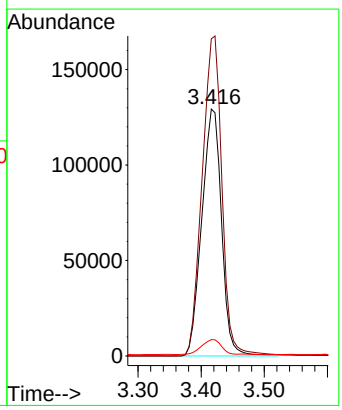
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

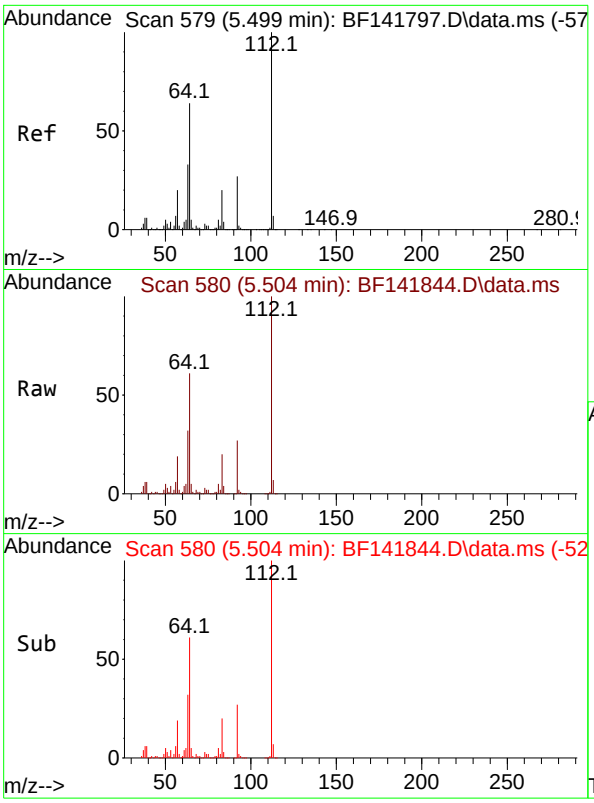


#4
n-Nitrosodimethylamine
Concen: 42.884 ng
RT: 3.416 min Scan# 225
Delta R.T. 0.011 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 42 Resp: 280375

Ion	Ratio	Lower	Upper
42	100		
74	128.5	107.1	160.7
44	6.6	6.6	9.8

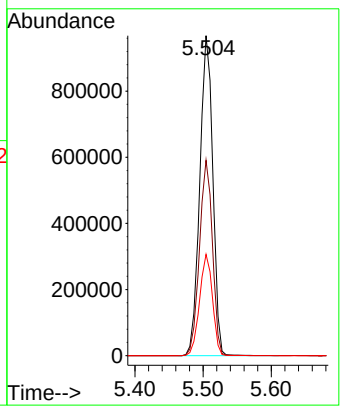




#5
2-Fluorophenol
Concen: 106.751 ng
RT: 5.504 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:112 Resp: 128483

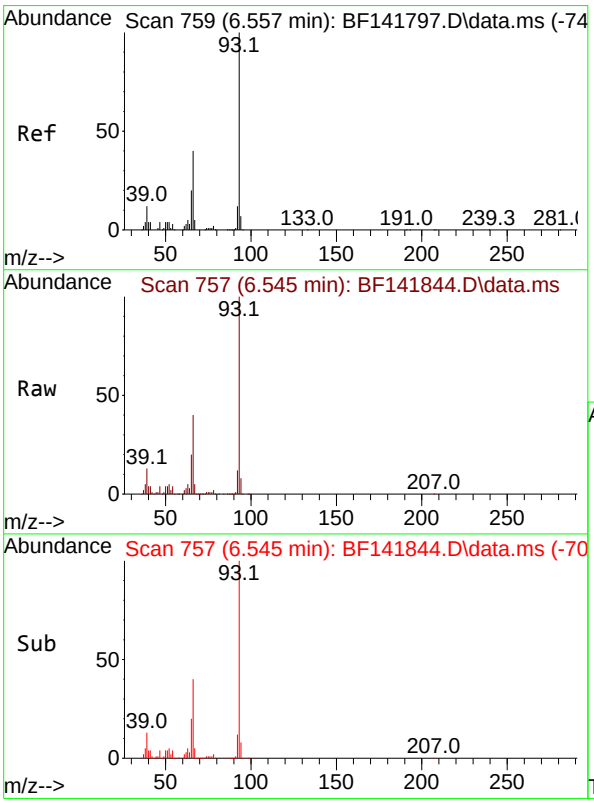
Ion	Ratio	Lower	Upper
112	100		
64	61.1	51.3	76.9
63	31.6	26.2	39.4



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

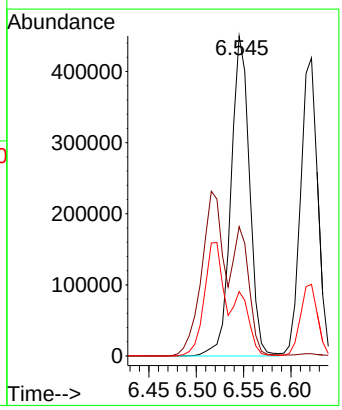
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

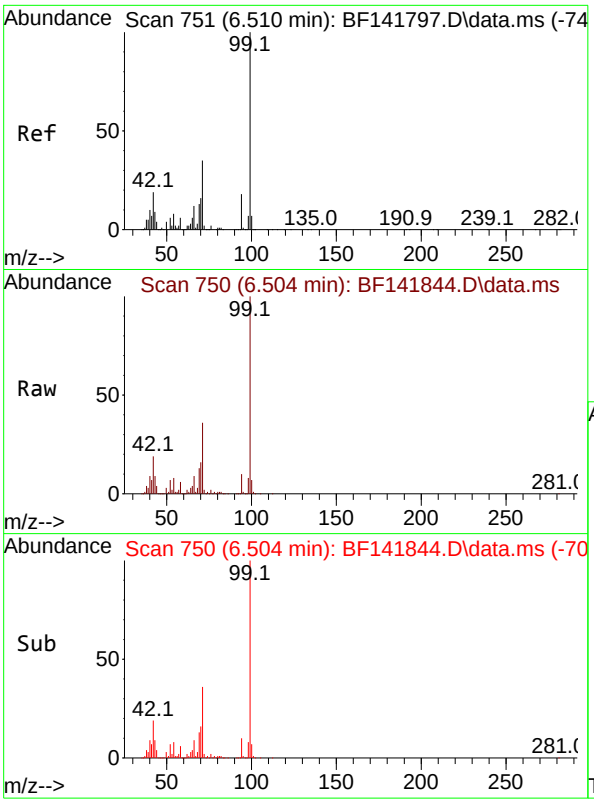


#6
Aniline
Concen: 37.620 ng
RT: 6.545 min Scan# 757
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 93 Resp: 612696

Ion	Ratio	Lower	Upper
93	100		
66	40.4	32.3	48.5
65	20.1	15.9	23.9

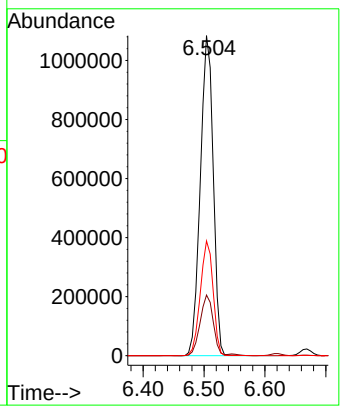




#7
Phenol-d6
Concen: 101.972 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 99 Resp: 159745

Ion	Ratio	Lower	Upper
99	100		
42	18.9	15.2	22.8
71	35.8	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
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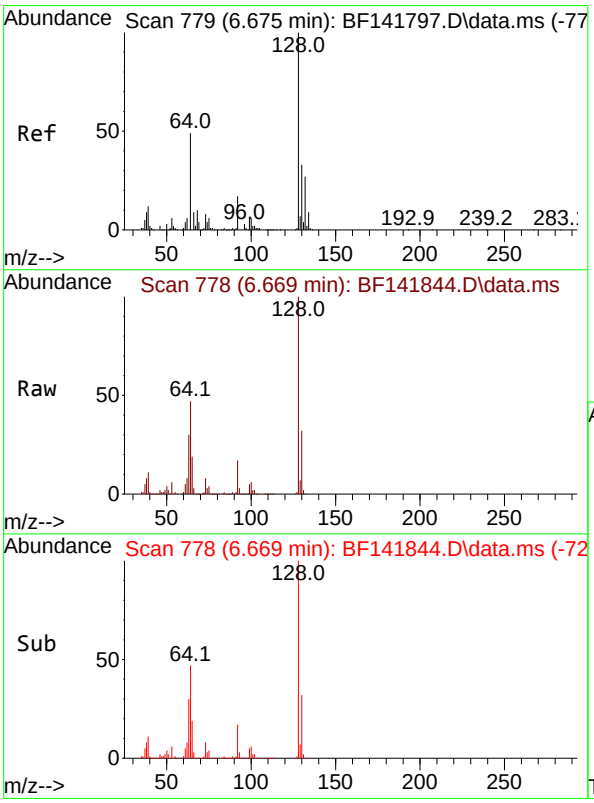
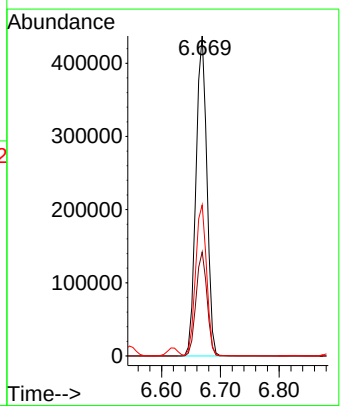
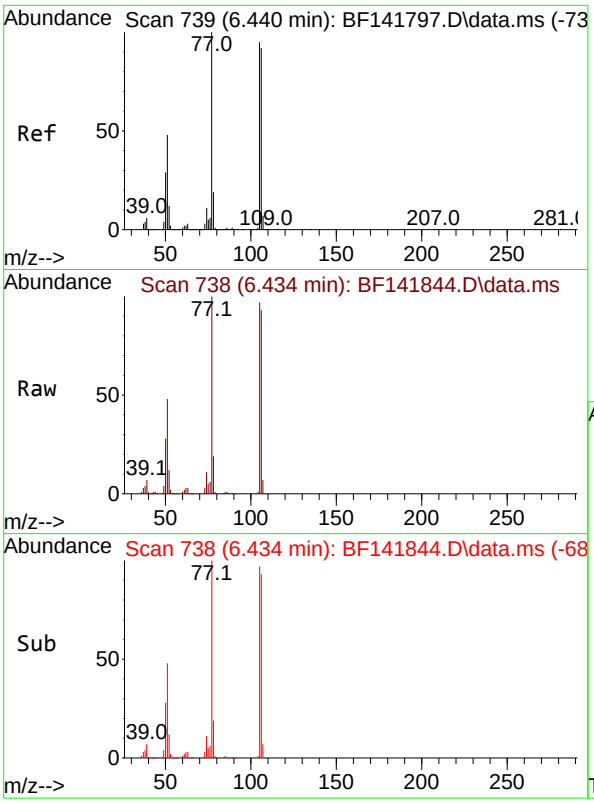


#8
2-Chlorophenol
Concen: 43.377 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:128 Resp: 564761

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.6	52.6
64	47.2	31.1	71.1

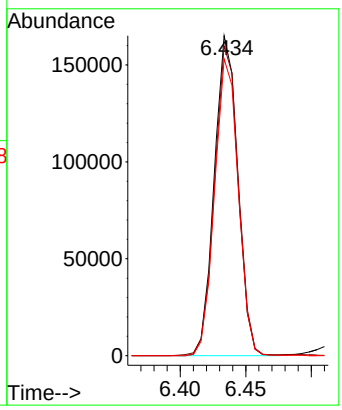




#9
Benzaldehyde
Concen: 22.462 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 77 Resp: 20468

Ion	Ratio	Lower	Upper
77	100		
105	96.8	75.3	115.3
106	92.8	72.3	112.3



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

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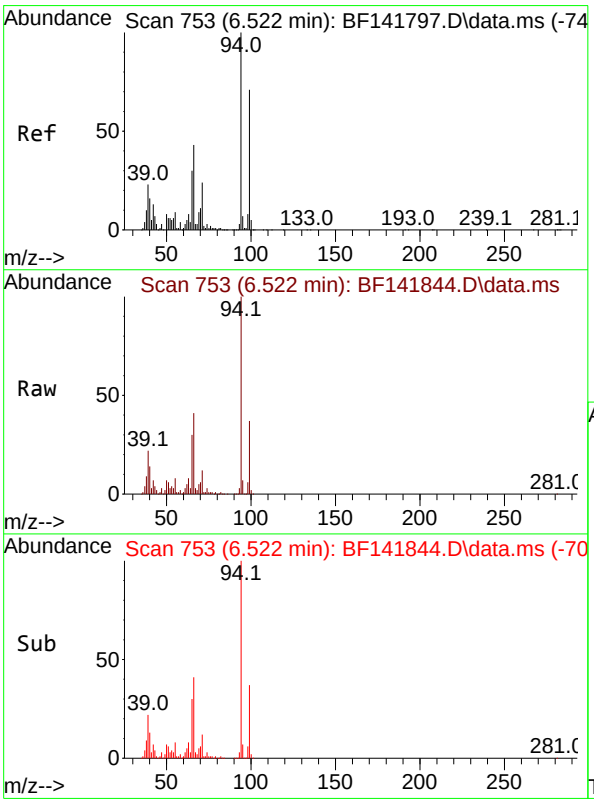
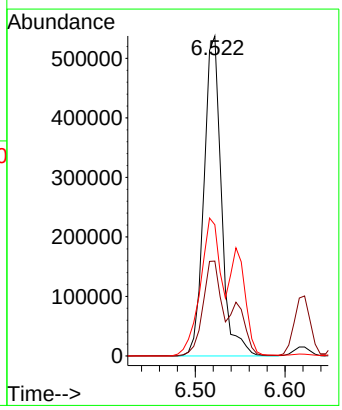
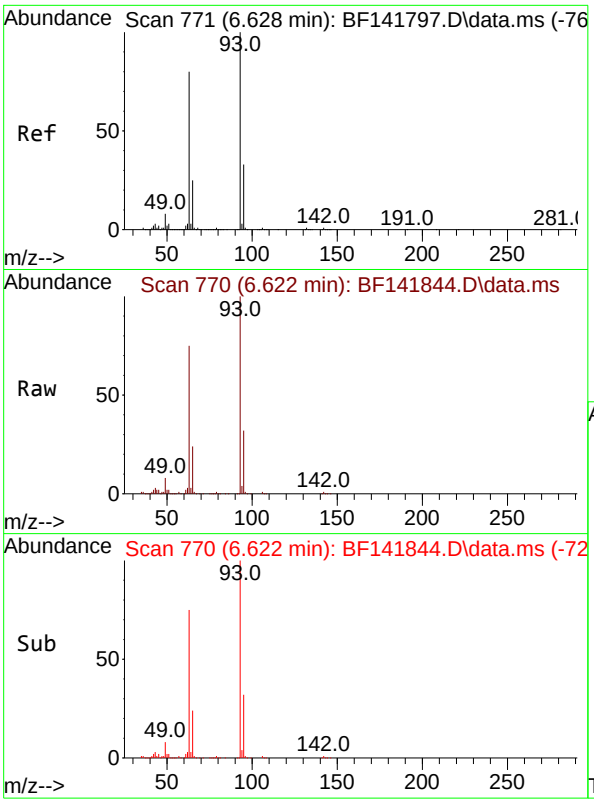


#10
Phenol
Concen: 43.368 ng
RT: 6.522 min Scan# 753
Delta R.T. -0.000 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 94 Resp: 725989

Ion	Ratio	Lower	Upper
94	100		
65	29.6	10.2	50.2
66	41.0	23.2	63.2

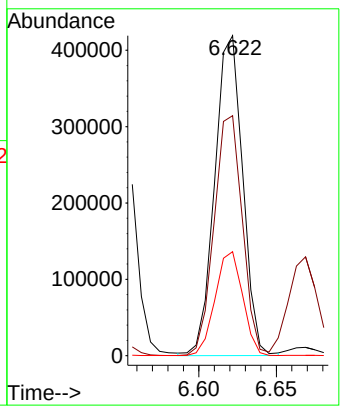




#11
bis(2-Chloroethyl)ether
Concen: 41.282 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 93 Resp: 52677

Ion	Ratio	Lower	Upper
93	100		
63	75.0	59.3	99.3
95	32.5	13.2	53.2



Instrument :
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ClientSampleId :
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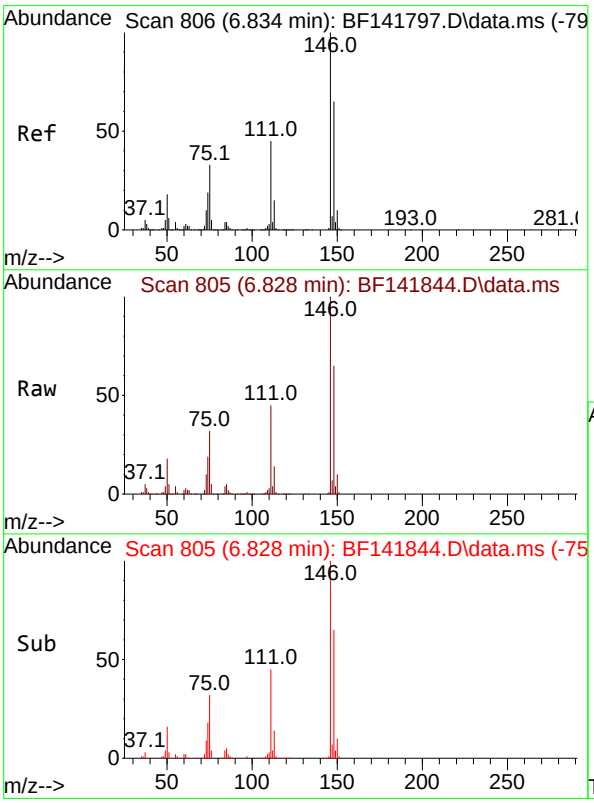
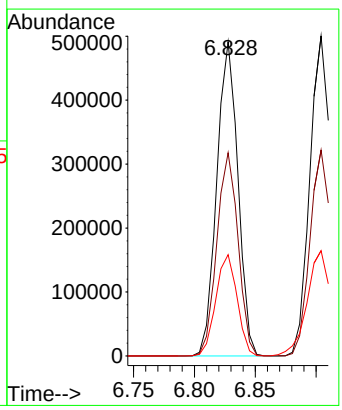
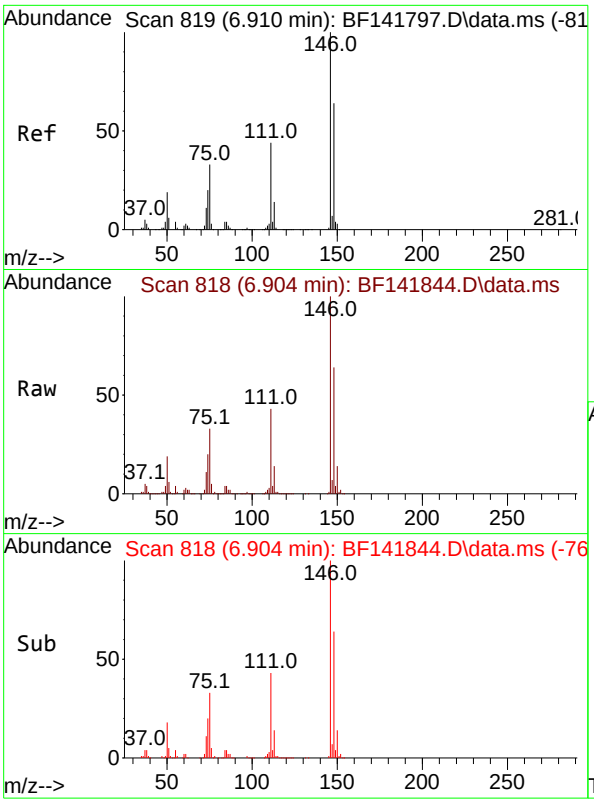


#12
1,3-Dichlorobenzene
Concen: 42.585 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:146 Resp: 593769

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.8	77.6
75	32.3	26.2	39.4

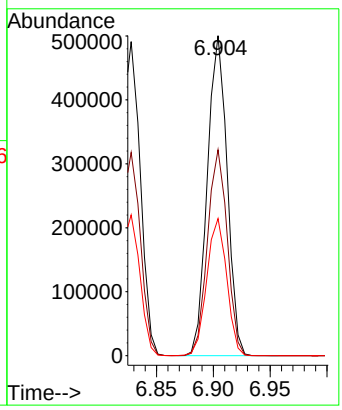




#13
1,4-Dichlorobenzene
Concen: 43.087 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:146 Resp: 60533

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.4	77.2
111	42.9	35.5	53.3



Instrument :
BNA_F
ClientSampleId :
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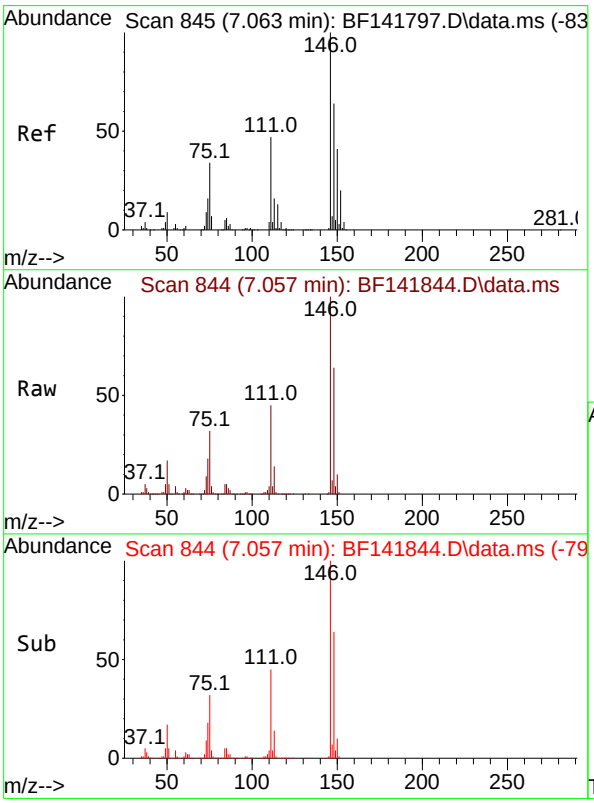
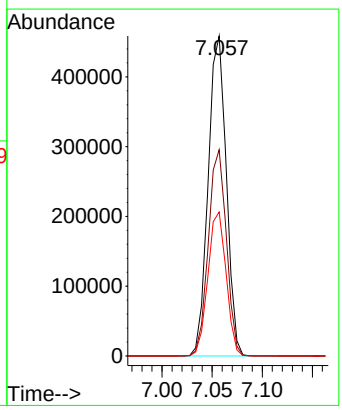
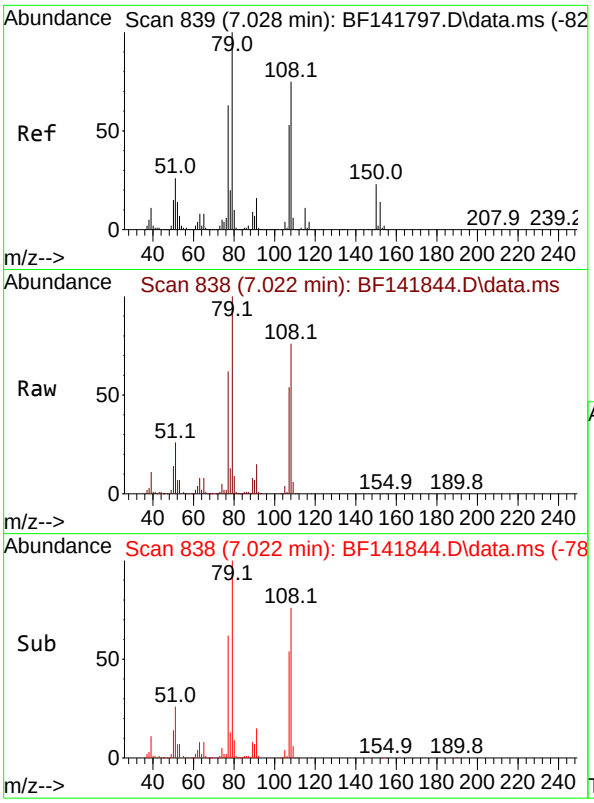


#14
1,2-Dichlorobenzene
Concen: 44.019 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:146 Resp: 577487

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.2	76.8
111	45.0	37.8	56.6





#15
Benzyl Alcohol
Concen: 39.376 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 79 Resp: 49298

Ion	Ratio	Lower	Upper
79	100		
108	75.9	60.2	90.2
77	62.4	50.2	75.2

Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

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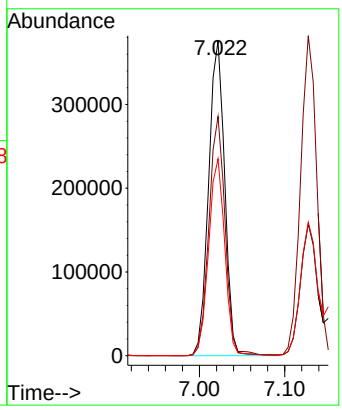
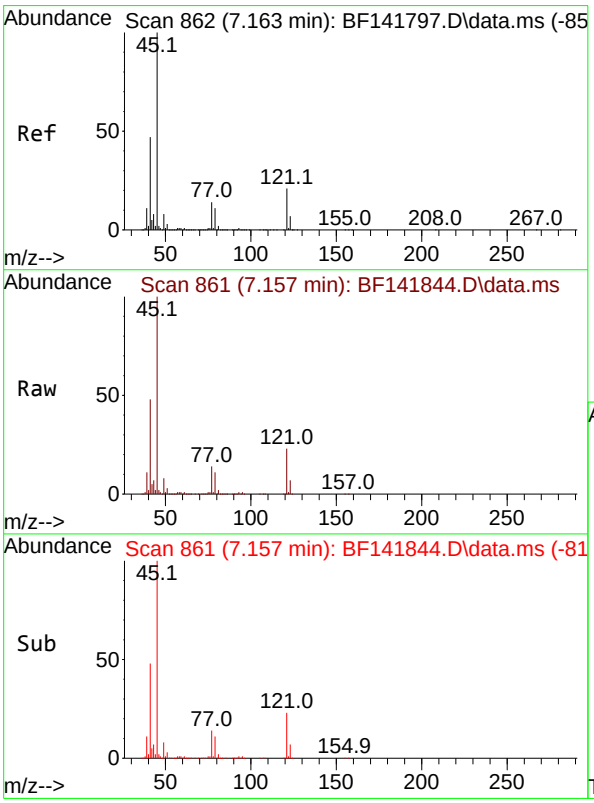
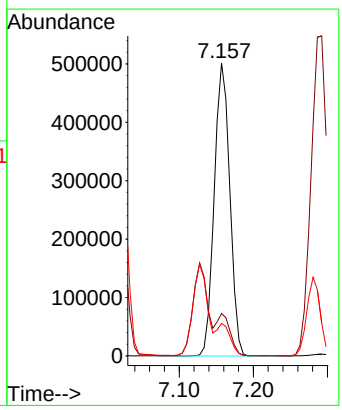


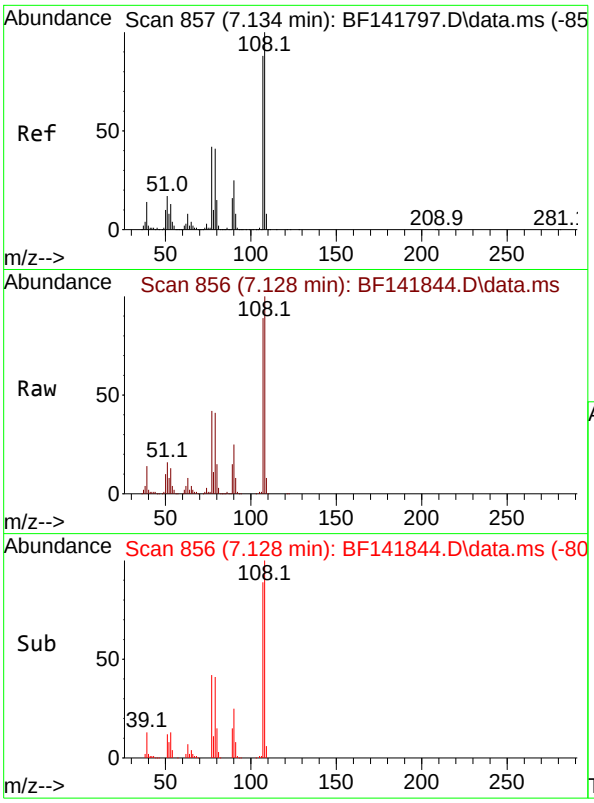


#16
2,2'-oxybis(1-Chloropropane)
Concen: 37.645 ng
RT: 7.157 min Scan# 861
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 45 Resp: 729509

Ion	Ratio	Lower	Upper
45	100		
77	14.5	0.0	34.4
79	11.1	0.0	30.9

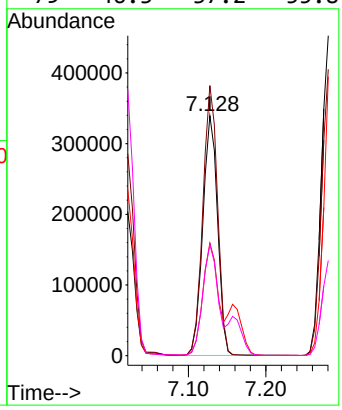




#17
2-Methylphenol
Concen: 41.743 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:107 Resp: 44860

Ion	Ratio	Lower	Upper
107	100		
108	112.5	90.6	135.8
77	46.9	37.7	56.5
79	46.3	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
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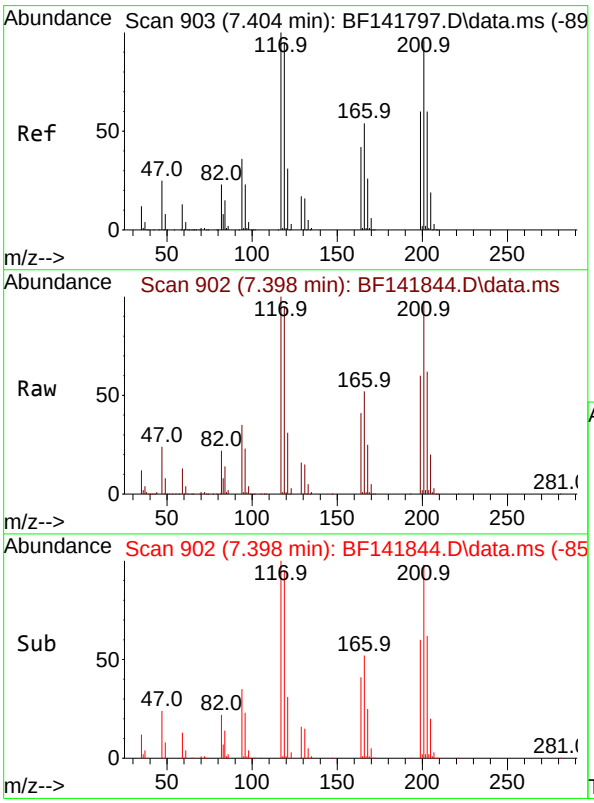
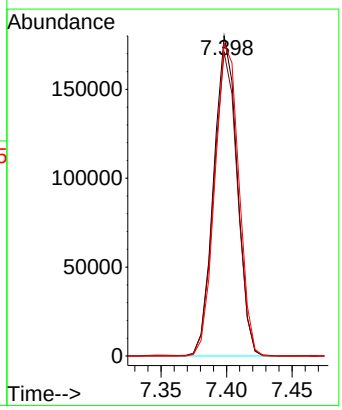
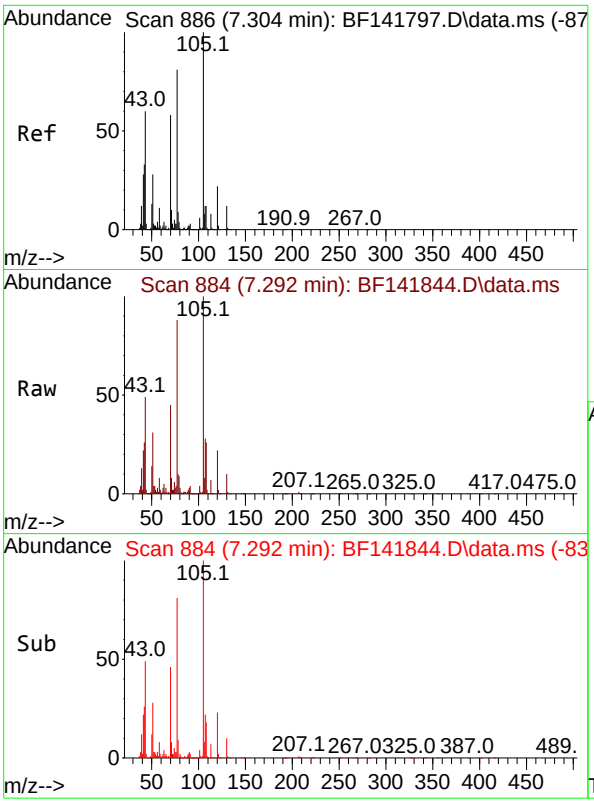


#18
Hexachloroethane
Concen: 42.419 ng
RT: 7.398 min Scan# 902
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:117 Resp: 223054

Ion	Ratio	Lower	Upper
117	100		
119	94.8	75.8	113.8
201	97.6	76.7	115.1

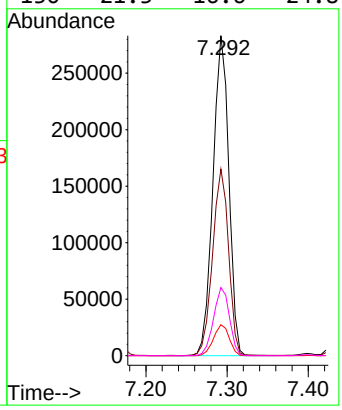




#19
n-Nitroso-di-n-propylamine
Concen: 37.380 ng
RT: 7.292 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 70 Resp: 38494

Ion	Ratio	Lower	Upper
70	100		
42	58.3	45.4	68.0
101	9.7	7.8	11.8
130	21.3	16.6	24.8



Instrument :
BNA_F
ClientSampleId :
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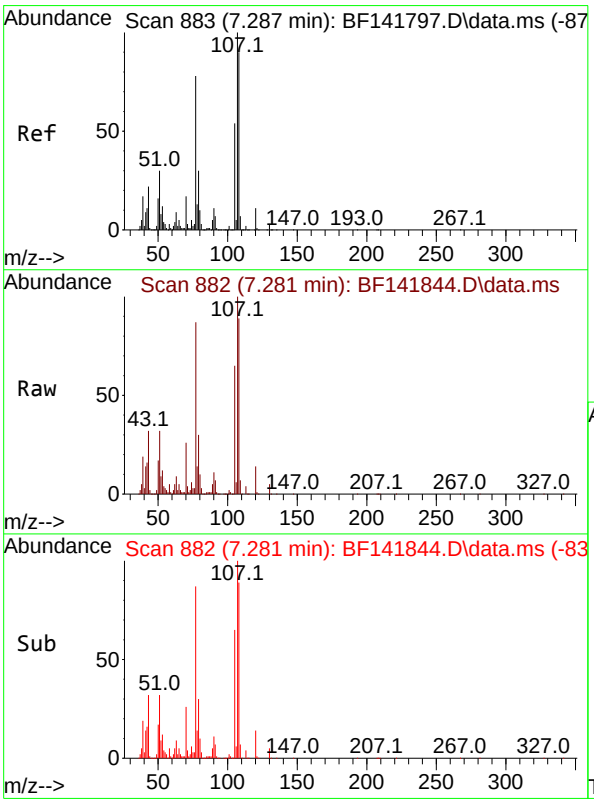
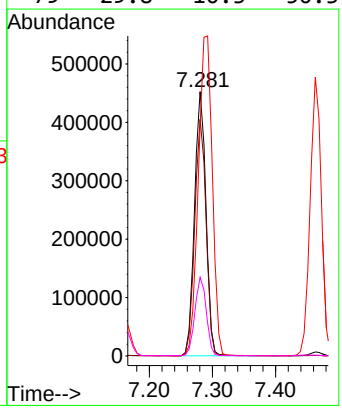
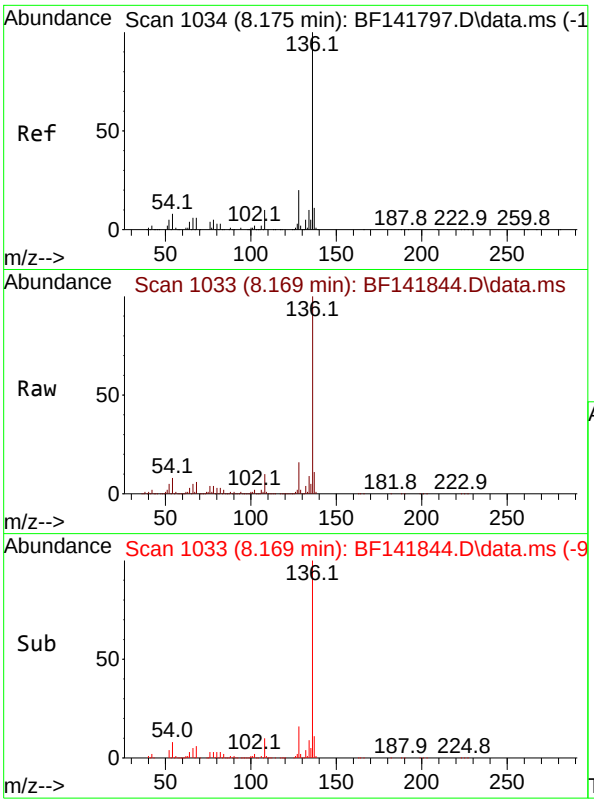


#20
3+4-Methylphenols
Concen: 42.489 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:107 Resp: 568592

Ion	Ratio	Lower	Upper
107	100		
108	89.5	69.7	109.7
77	87.2	58.3	98.3
79	29.8	10.3	50.3

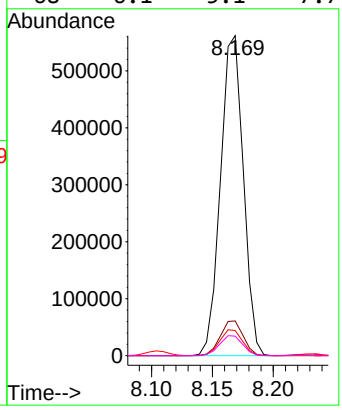




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:136 Resp: 73423

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	7.9	6.9	10.3
68	6.1	5.1	7.7



Instrument :
BNA_F
ClientSampleId :
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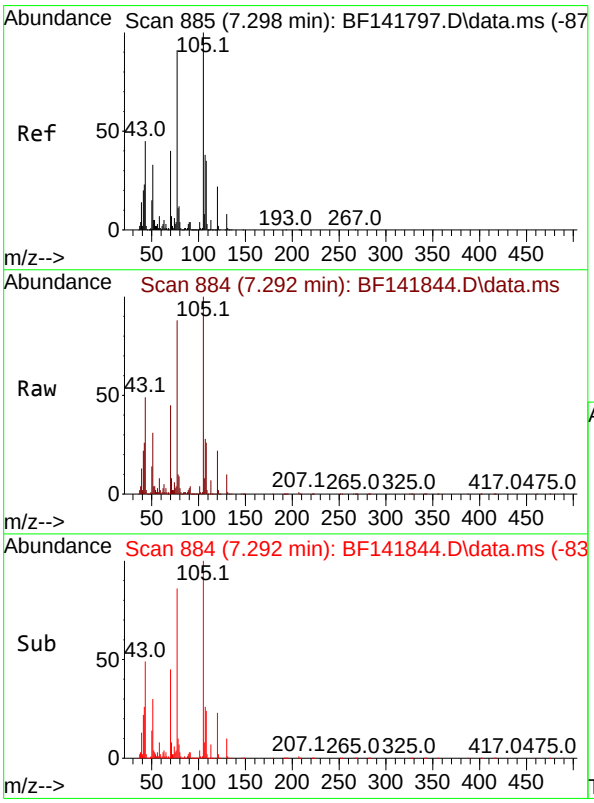
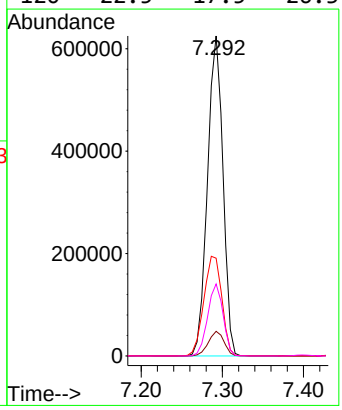
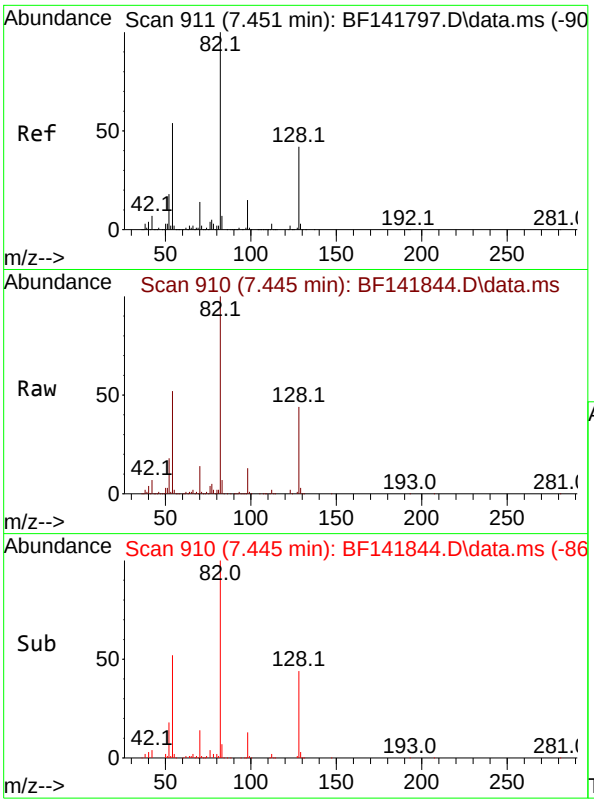


#22
Acetophenone
Concen: 46.254 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:105 Resp: 827134

Ion	Ratio	Lower	Upper
105	100		
71	7.7	5.4	8.0
51	30.6	26.1	39.1
120	22.5	17.5	26.3

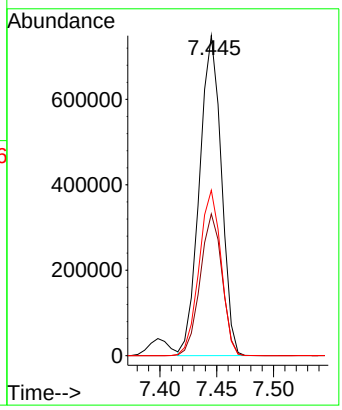




#23
Nitrobenzene-d5
Concen: 87.407 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 82 Resp: 100401

Ion	Ratio	Lower	Upper
82	100		
128	44.3	33.5	50.3
54	51.7	42.7	64.1



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

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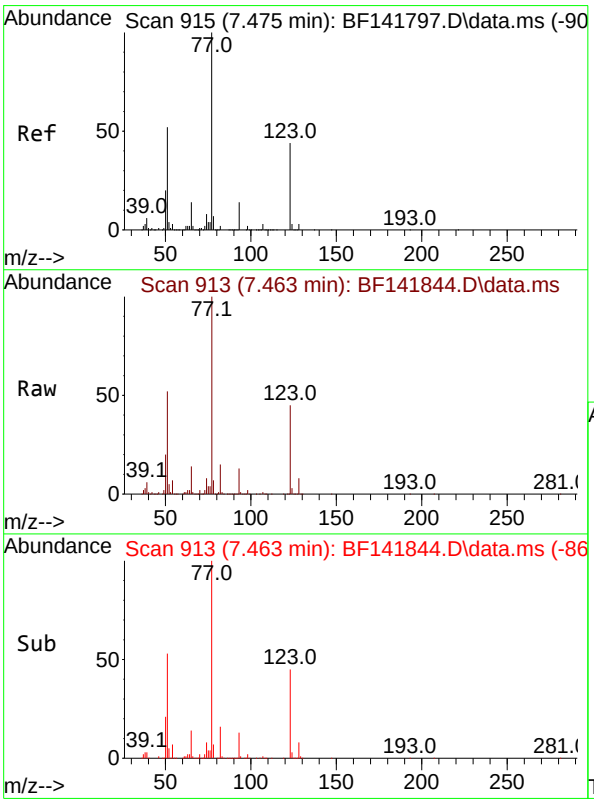
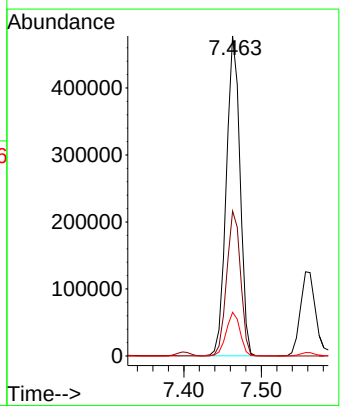
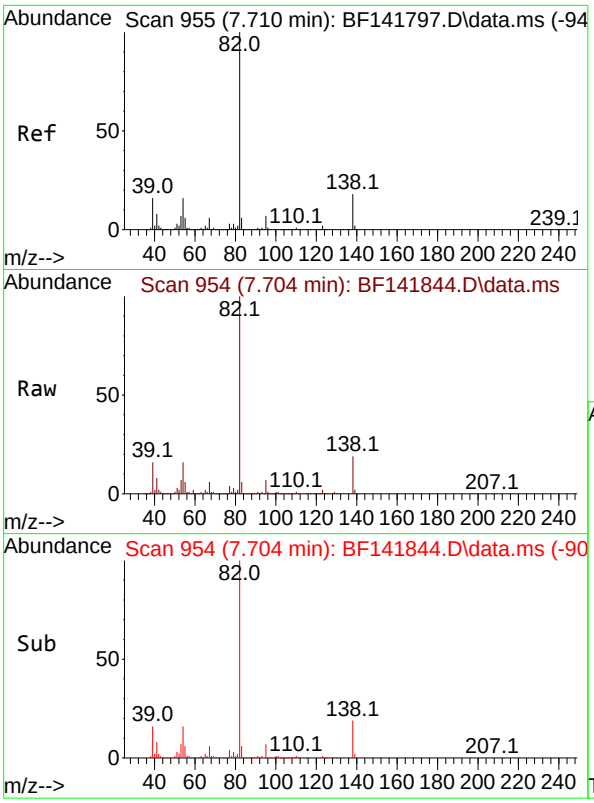


#24
Nitrobenzene
Concen: 47.838 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 77 Resp: 588435

Ion	Ratio	Lower	Upper
77	100		
123	45.3	35.8	53.8
65	13.6	11.2	16.8

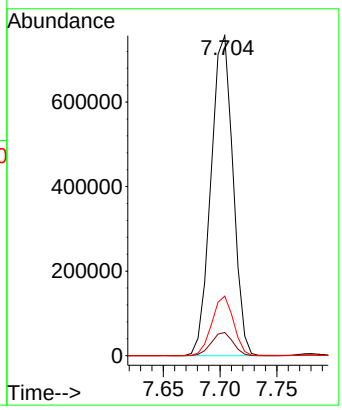




#25
Isophorone
Concen: 41.482 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 82 Resp: 102367

Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.8
138	18.6	14.0	21.0



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

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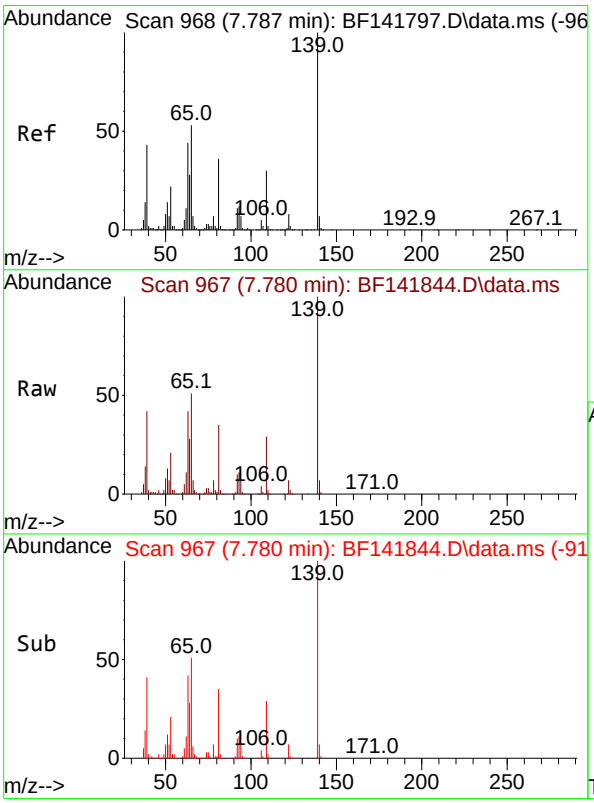
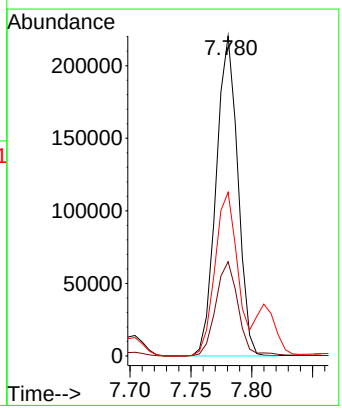
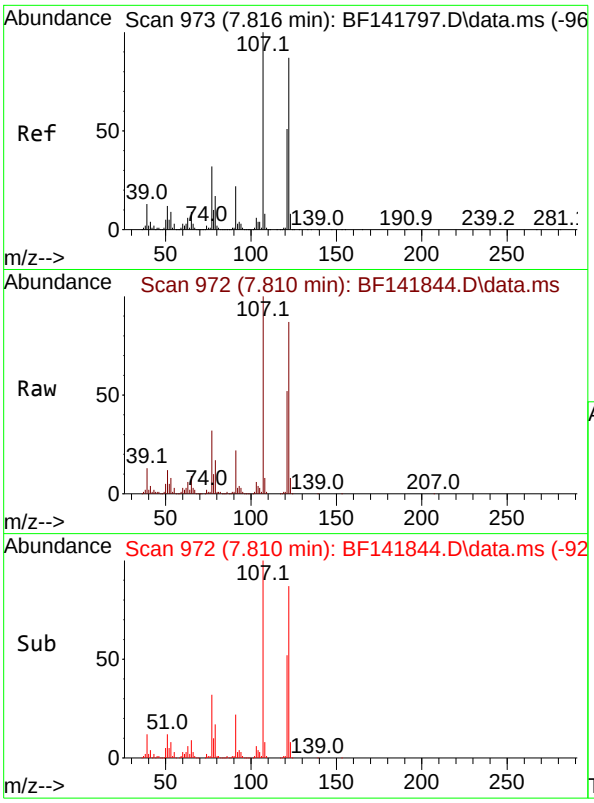


#26
2-Nitrophenol
Concen: 49.470 ng
RT: 7.780 min Scan# 967
Delta R.T. -0.007 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:139 Resp: 272681

Ion	Ratio	Lower	Upper
139	100		
109	29.5	24.1	36.1
65	51.2	42.3	63.5

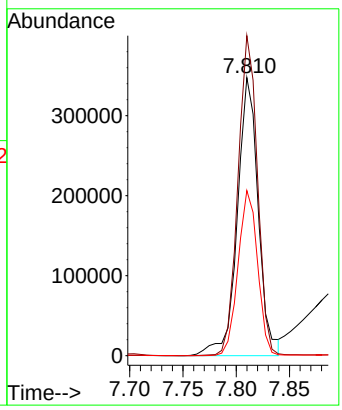




#27
2,4-Dimethylphenol
Concen: 52.462 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:122 Resp: 47590

Ion	Ratio	Lower	Upper
122	100		
107	115.1	92.5	138.7
121	59.4	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

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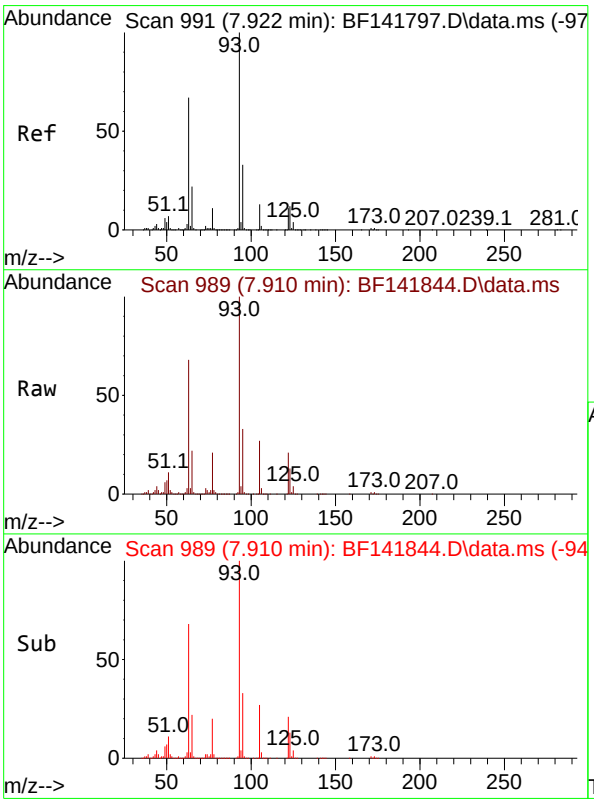
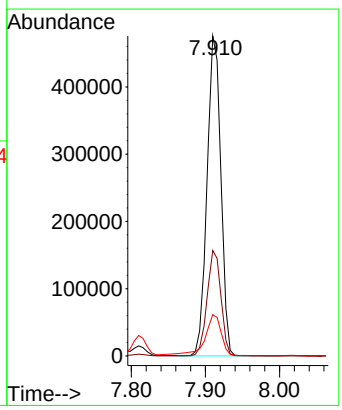
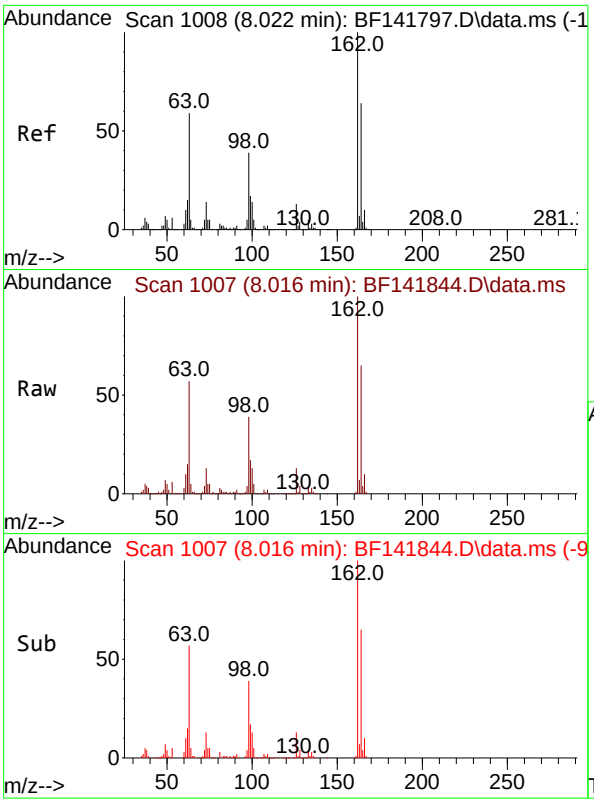


#28
bis(2-Chloroethoxy)methane
Concen: 39.071 ng
RT: 7.910 min Scan# 989
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 93 Resp: 615055

Ion	Ratio	Lower	Upper
93	100		
95	32.9	26.5	39.7
123	12.9	10.0	15.0

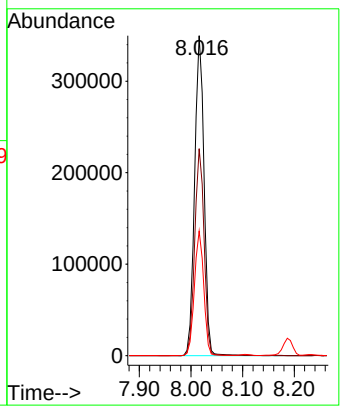




#29
2,4-Dichlorophenol
Concen: 42.337 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:162 Resp: 44305

Ion	Ratio	Lower	Upper
162	100		
164	64.7	44.3	84.3
98	39.0	19.6	59.6



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

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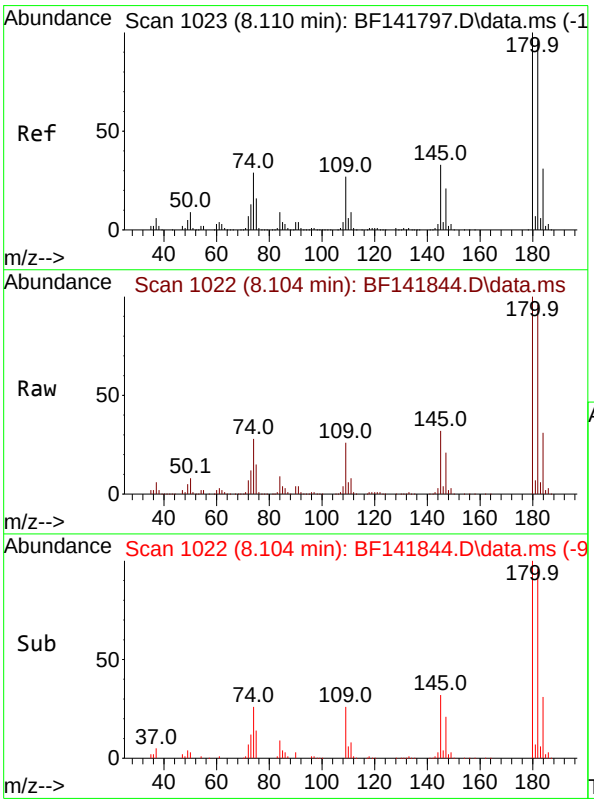
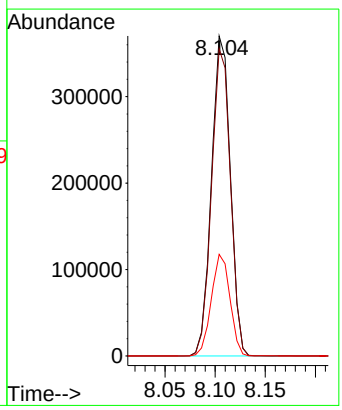
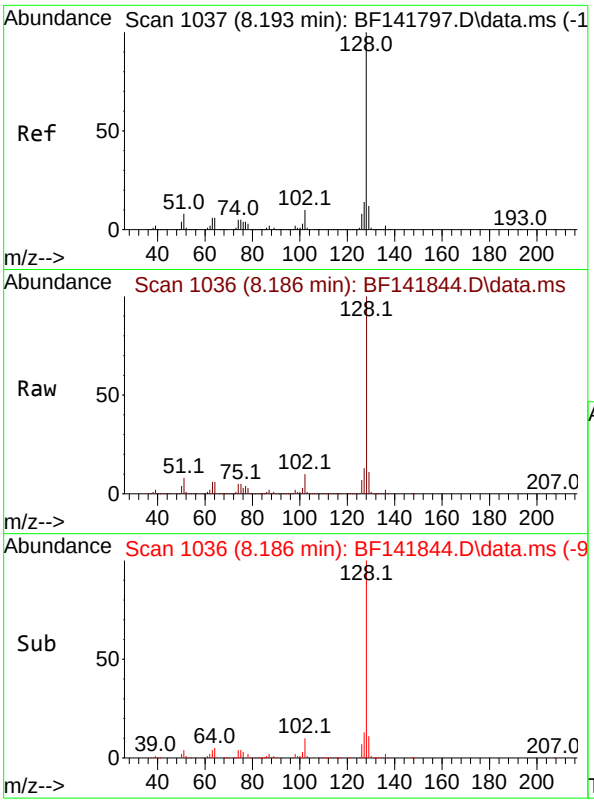


#30
1,2,4-Trichlorobenzene
Concen: 42.221 ng
RT: 8.104 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:180 Resp: 484159

Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.8	115.2
145	31.8	26.4	39.6





#31
Naphthalene
Concen: 41.484 ng
RT: 8.186 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:128 Resp: 156547(

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.2	13.8
127	13.2	11.0	16.4

Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

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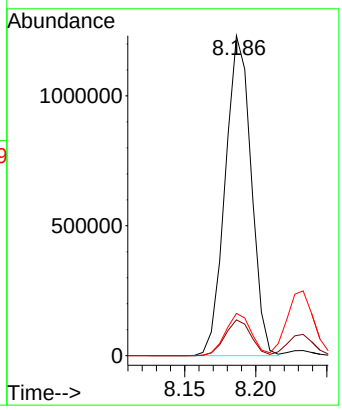
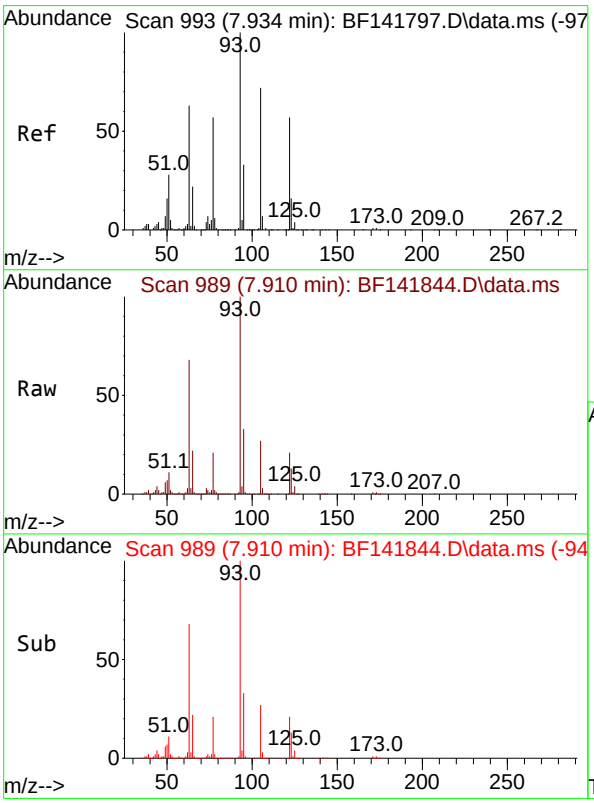
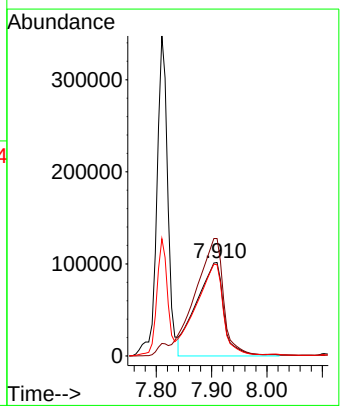


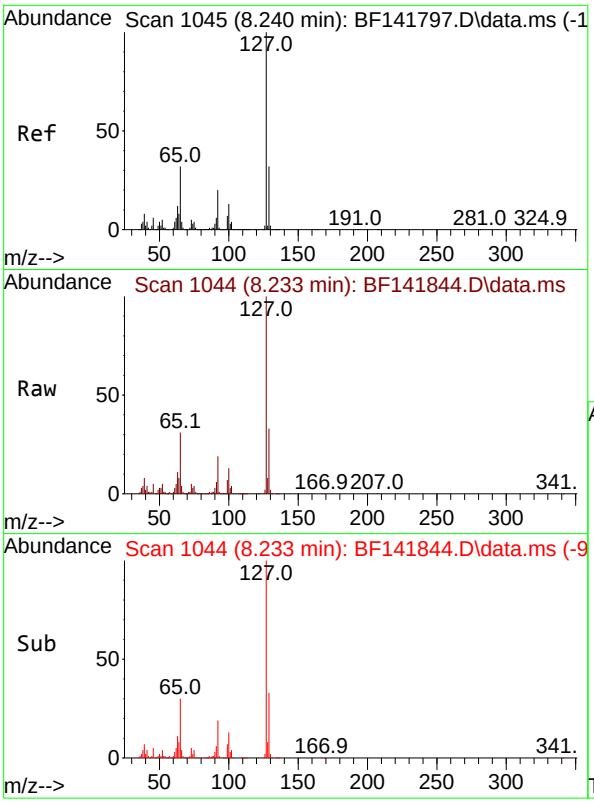


#32
Benzoic acid
Concen: 46.845 ng m
RT: 7.910 min Scan# 989
Delta R.T. -0.024 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:122 Resp: 353009

Ion	Ratio	Lower	Upper
122	100		
105	125.6	105.8	145.8
77	97.6	79.9	119.9

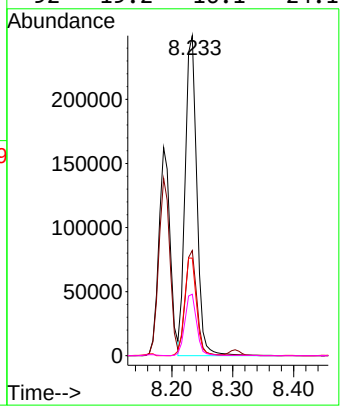




#33
4-Chloroaniline
Concen: 24.016 ng
RT: 8.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:127 Resp: 33229

Ion	Ratio	Lower	Upper
127	100		
129	32.9	26.1	39.1
65	30.5	25.7	38.5
92	19.2	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

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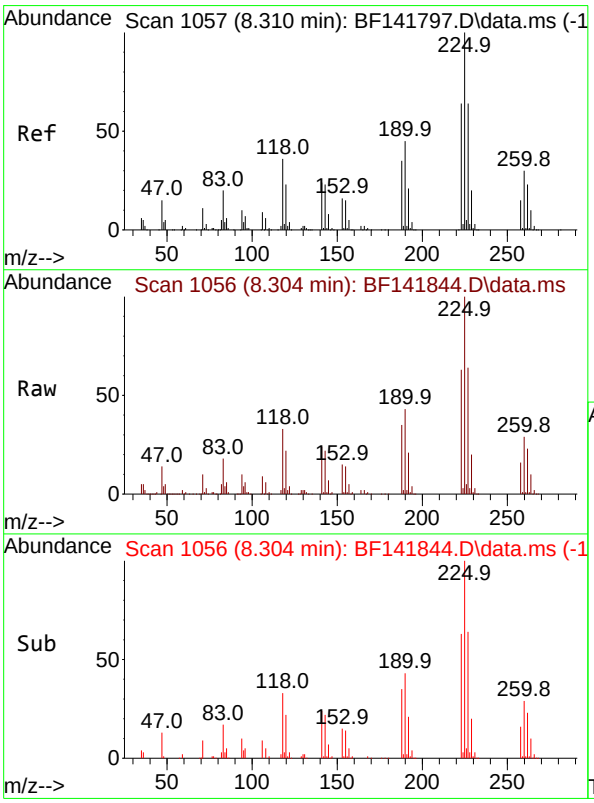
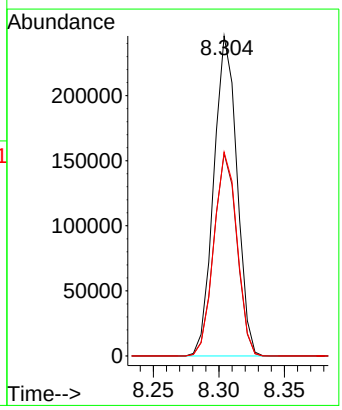
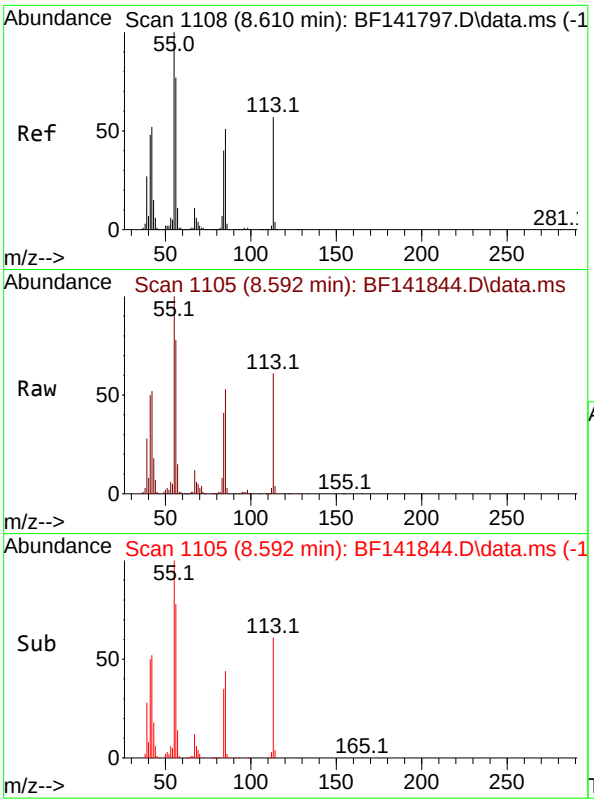


#34
Hexachlorobutadiene
Concen: 42.314 ng
RT: 8.304 min Scan# 1056
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:225 Resp: 301524

Ion	Ratio	Lower	Upper
225	100		
223	63.2	51.4	77.2
227	63.7	51.6	77.4





#35
Caprolactam
Concen: 51.511 ng
RT: 8.592 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:113 Resp: 16583

Ion	Ratio	Lower	Upper
113	100		
55	164.7	155.6	195.6
56	127.6	114.6	154.6

Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
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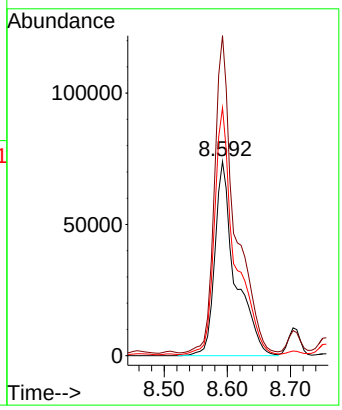
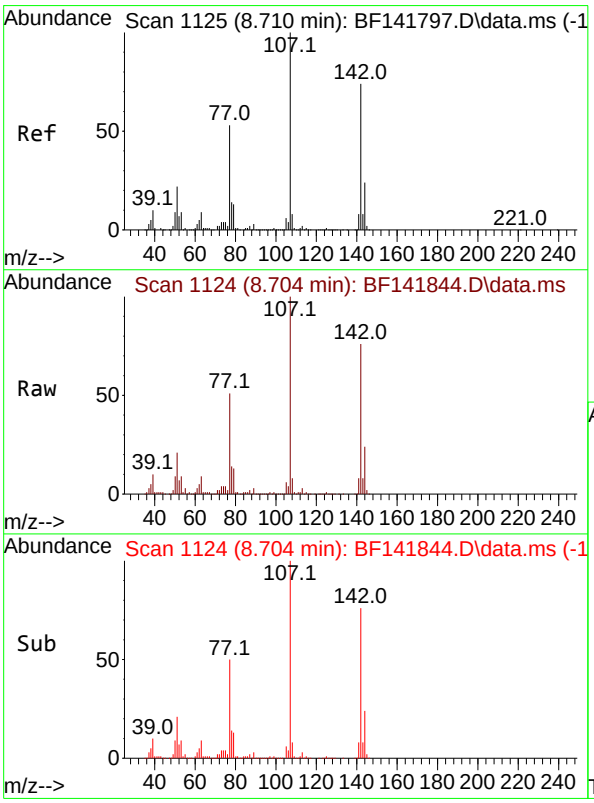
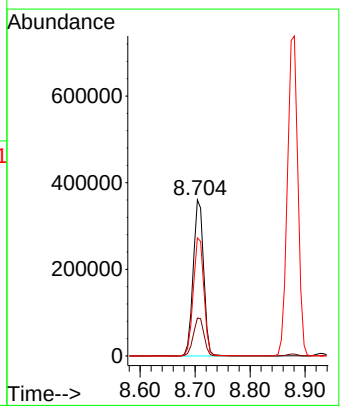


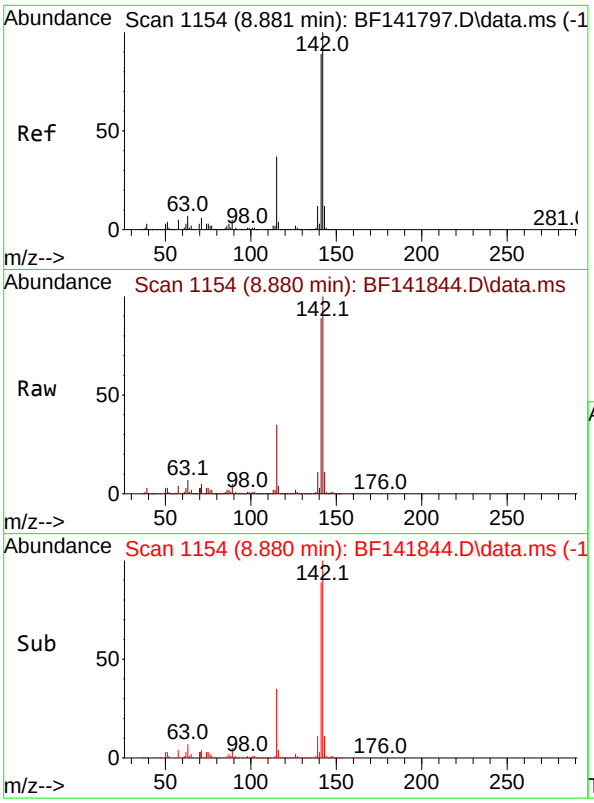


#36
4-Chloro-3-methylphenol
Concen: 41.065 ng
RT: 8.704 min Scan# 1124
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:107 Resp: 477385

Ion	Ratio	Lower	Upper
107	100		
144	24.3	19.4	29.0
142	75.6	59.4	89.0

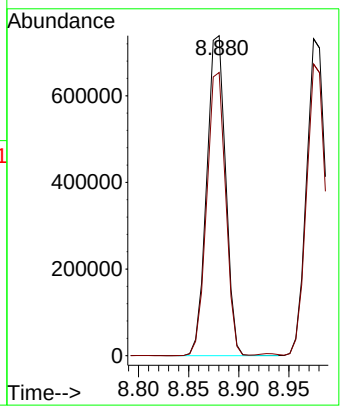




#37
2-Methylnaphthalene
Concen: 39.255 ng
RT: 8.880 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:142 Resp: 97164

Ion	Ratio	Lower	Upper
142	100		
141	88.5	71.1	106.7



Instrument :
BNA_F
ClientSampleId :
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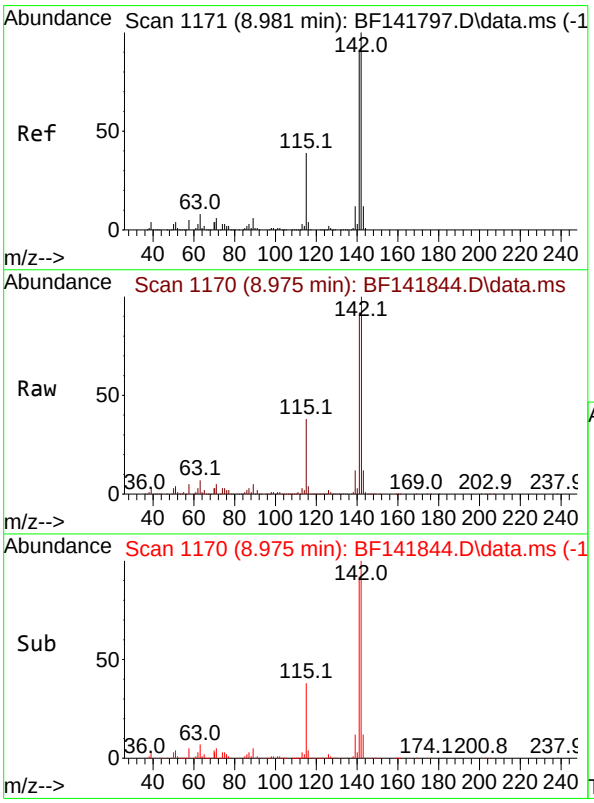
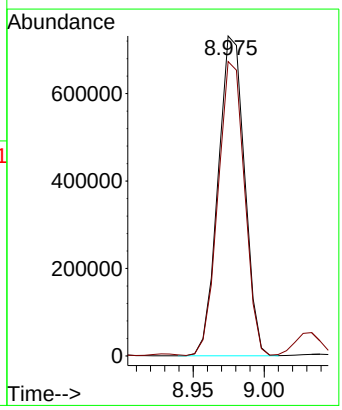
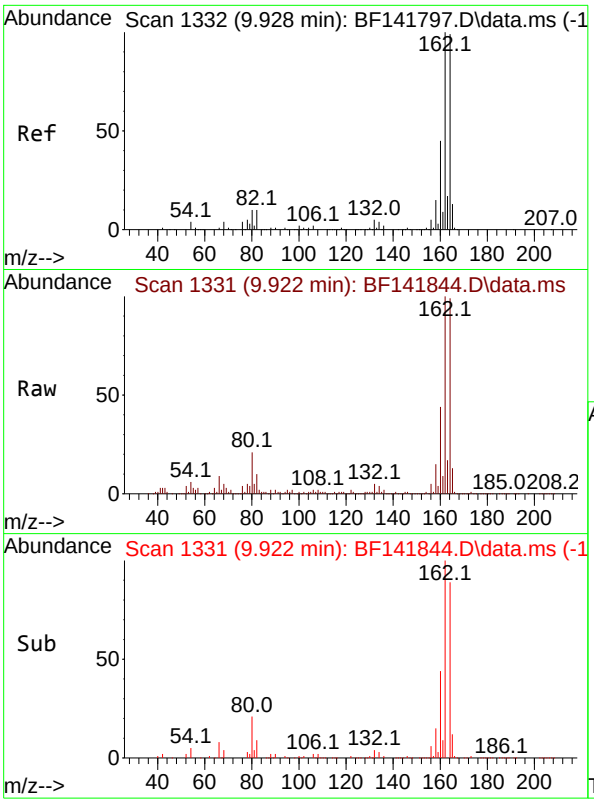


#38
1-Methylnaphthalene
Concen: 39.973 ng
RT: 8.975 min Scan# 1170
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:142 Resp: 949369

Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.1	109.7

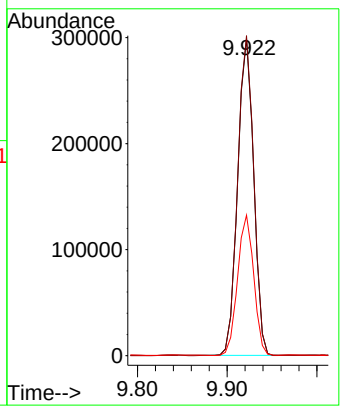




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:164 Resp: 37002

Ion	Ratio	Lower	Upper
164	100		
162	101.0	80.6	120.8
160	44.3	36.3	54.5



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

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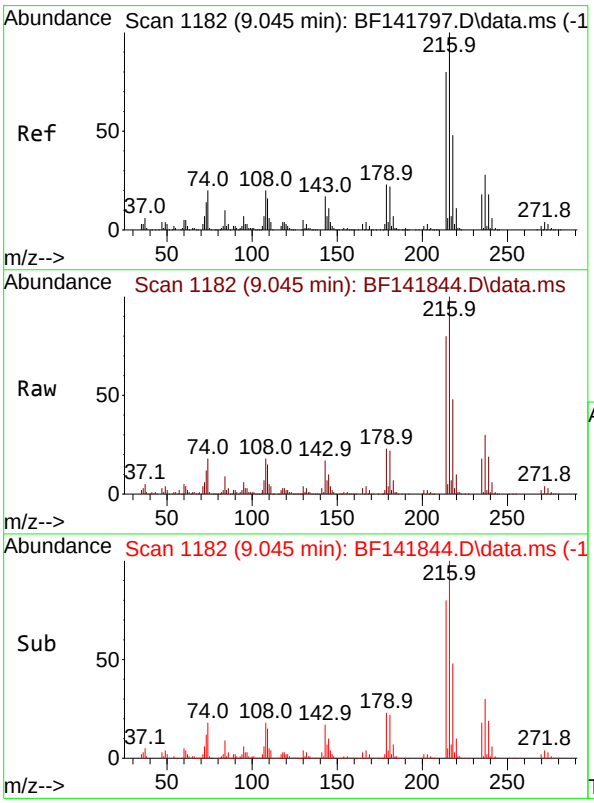
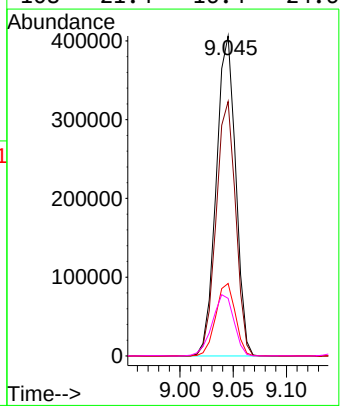
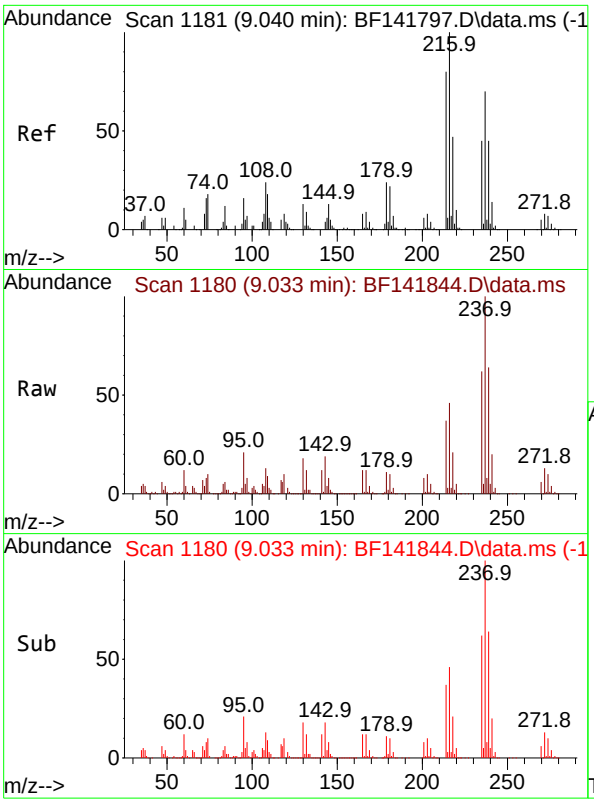


#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.211 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:216 Resp: 515221

Ion	Ratio	Lower	Upper
216	100		
214	79.6	63.5	95.3
179	23.0	18.1	27.1
108	21.4	16.4	24.6





#41
Hexachlorocyclopentadiene
Concen: 126.697 ng
RT: 9.033 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:237 Resp: 56505

Ion	Ratio	Lower	Upper
237	100		
235	62.5	43.3	83.3
272	12.5	0.0	31.9

Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

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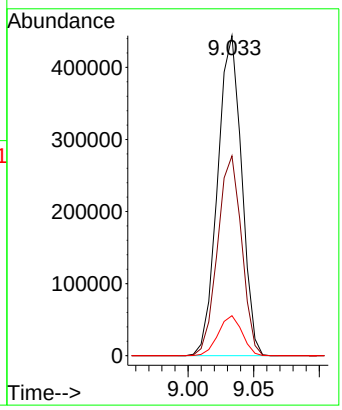
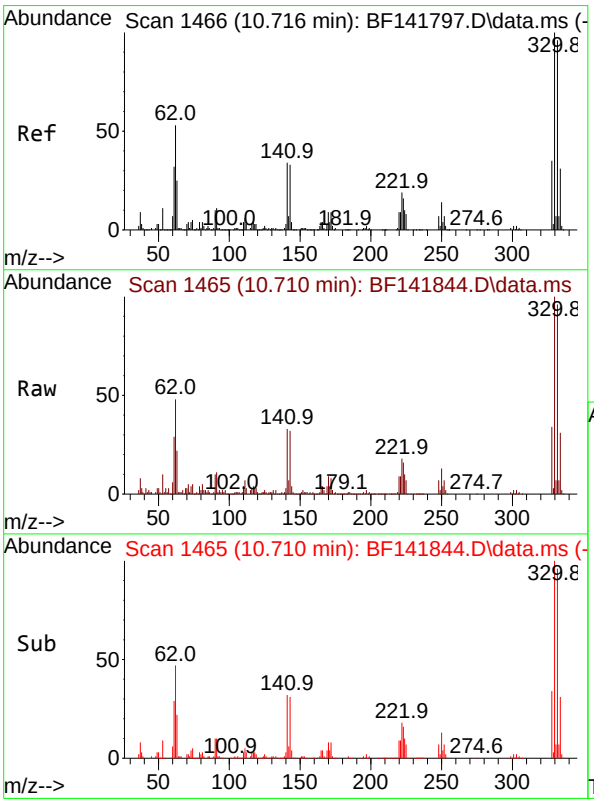
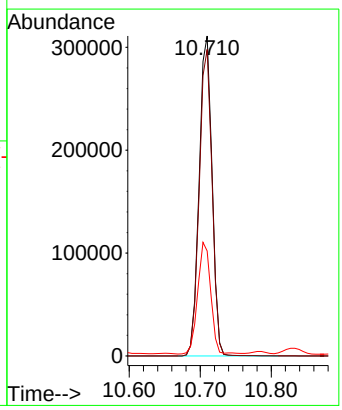


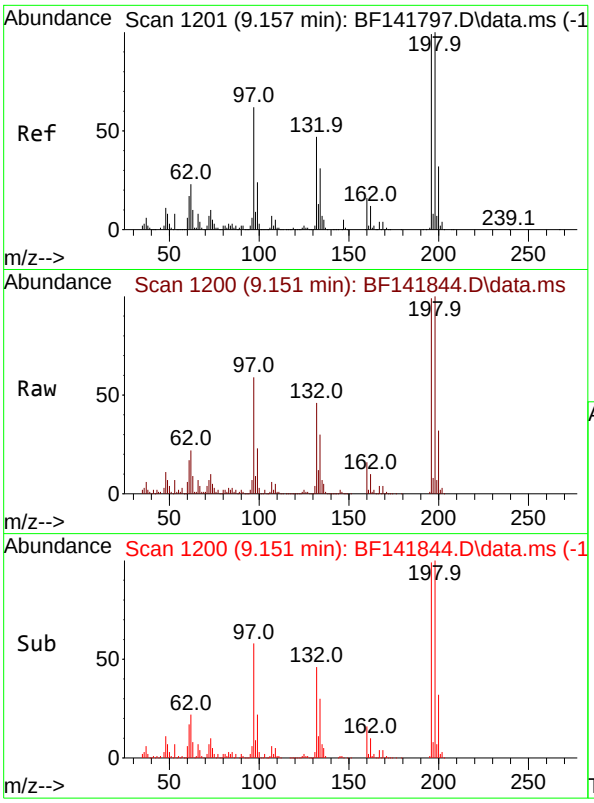


#42
2,4,6-Tribromophenol
Concen: 113.326 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:330 Resp: 393680

Ion	Ratio	Lower	Upper
330	100		
332	95.7	76.6	115.0
141	35.4	29.0	43.4

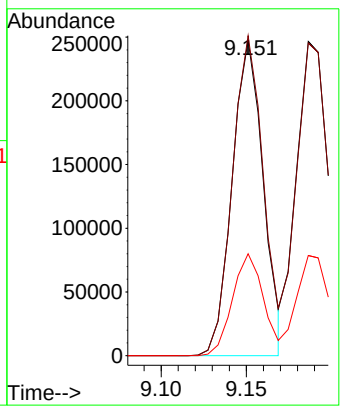




#43
2,4,6-Trichlorophenol
Concen: 45.449 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:196 Resp: 31374

Ion	Ratio	Lower	Upper
196	100		
198	101.4	80.4	120.6
200	32.3	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

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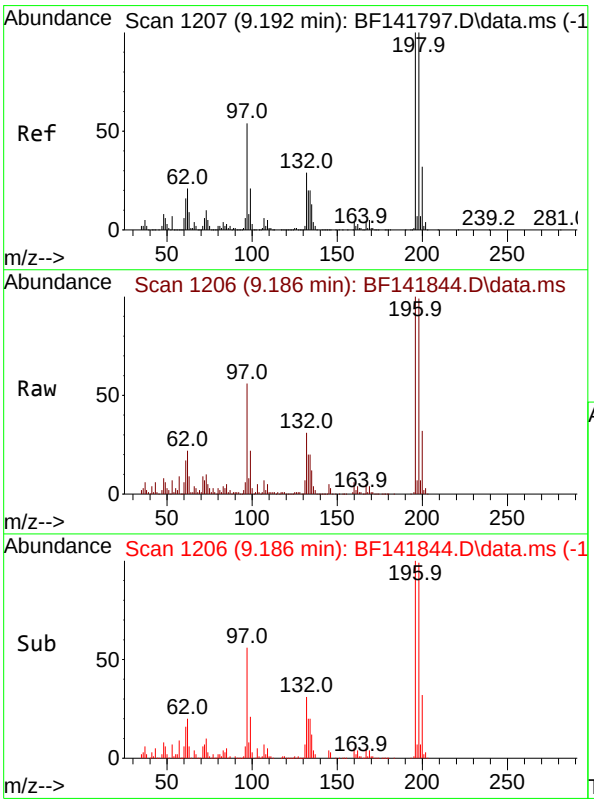
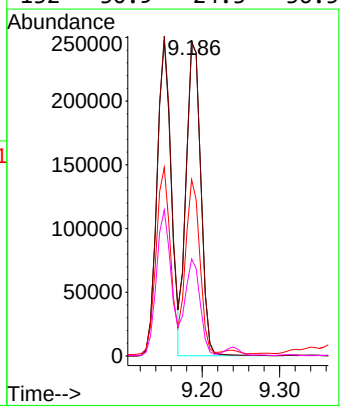
Supervised By :Jagrut Upadhyay 03/06/2025

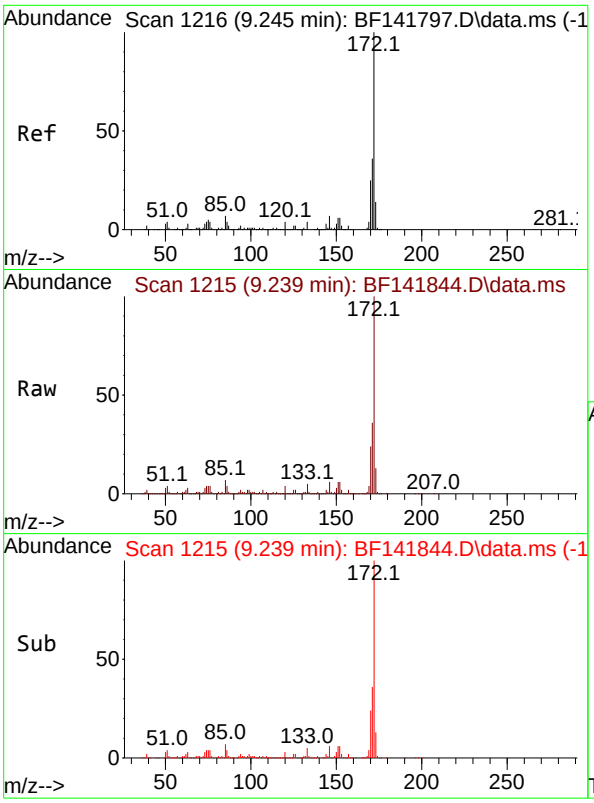


#44
2,4,5-Trichlorophenol
Concen: 47.324 ng
RT: 9.186 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:196 Resp: 323494

Ion	Ratio	Lower	Upper
196	100		
198	99.5	79.7	119.5
97	56.1	44.2	66.2
132	30.9	24.3	36.5

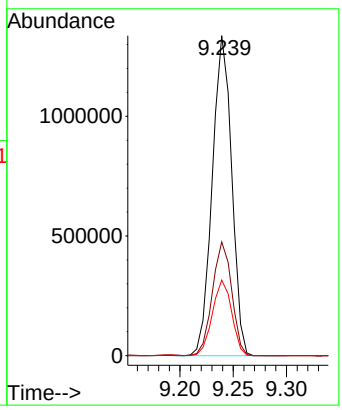




#45
2-Fluorobiphenyl
Concen: 73.287 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:172 Resp: 169123

Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.2	43.8
170	23.6	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
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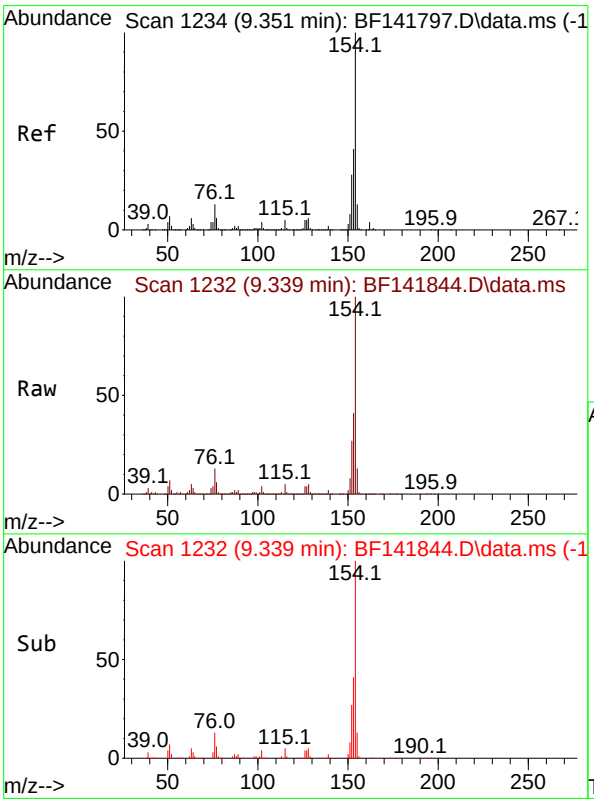
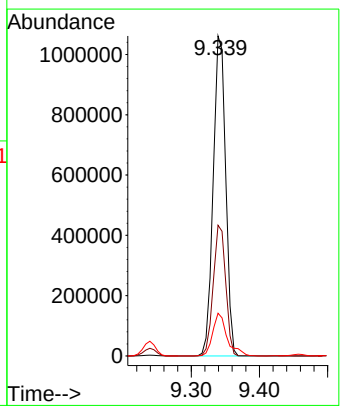
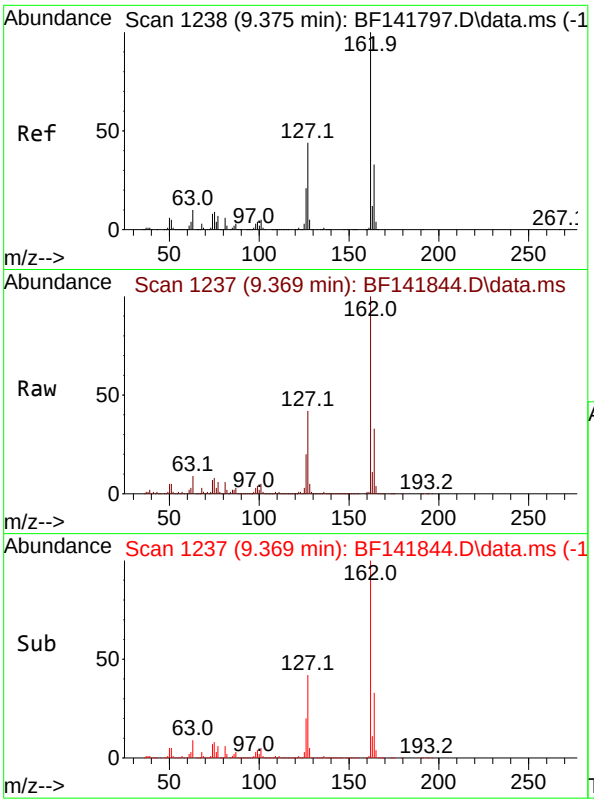


#46
1,1'-Biphenyl
Concen: 48.058 ng
RT: 9.339 min Scan# 1232
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:154 Resp: 1353556

Ion	Ratio	Lower	Upper
154	100		
153	40.8	21.4	61.4
76	13.3	0.0	33.4

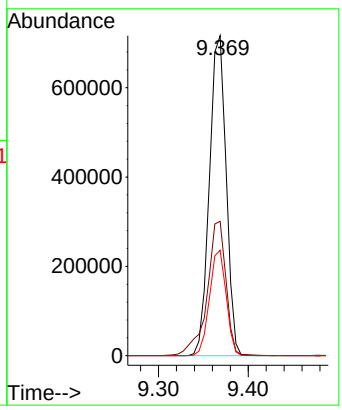




#47
2-Chloronaphthalene
Concen: 44.688 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:162 Resp: 92897

Ion	Ratio	Lower	Upper
162	100		
127	42.0	35.0	52.6
164	32.9	26.6	40.0



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

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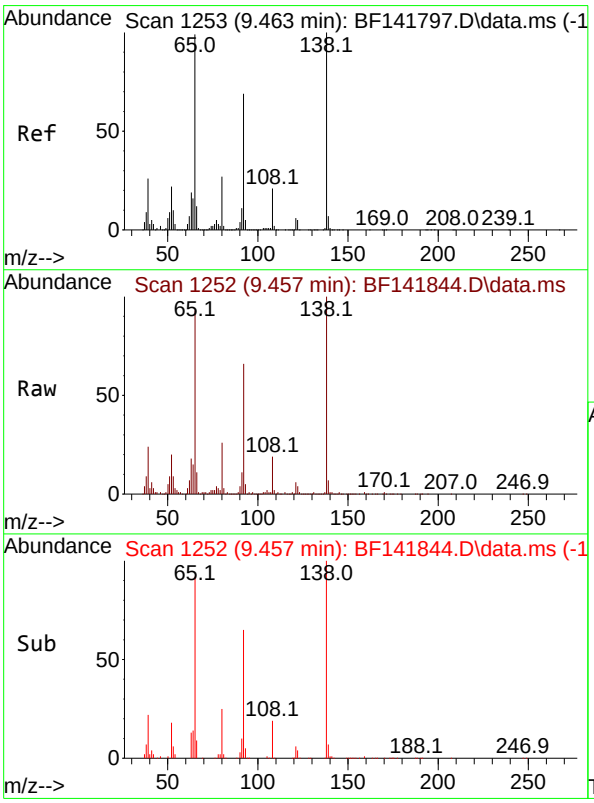
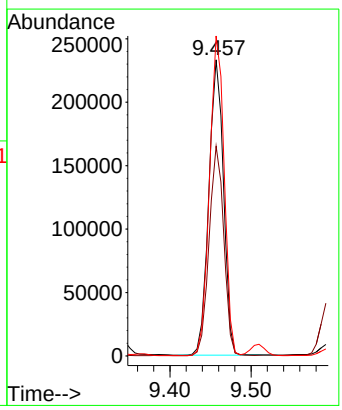
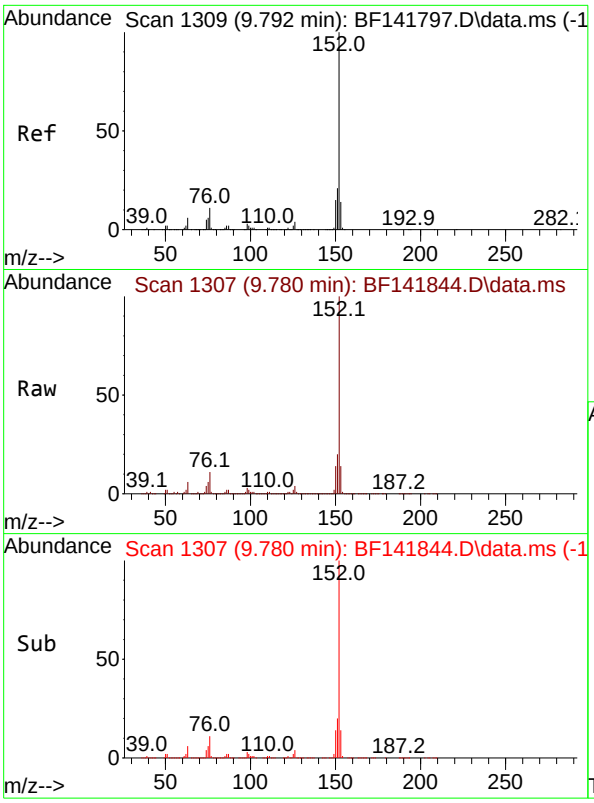


#48
2-Nitroaniline
Concen: 50.994 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 65 Resp: 291855

Ion	Ratio	Lower	Upper
65	100		
92	70.8	55.7	83.5
138	108.0	80.6	121.0

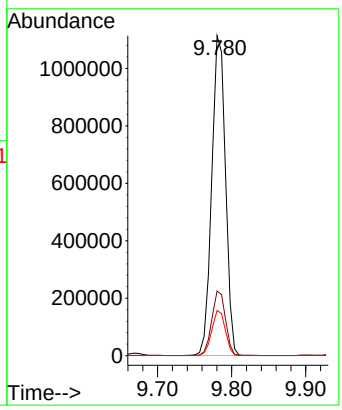




#49
Acenaphthylene
Concen: 45.995 ng
RT: 9.780 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:152 Resp: 143353

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.6	24.8
153	14.1	11.2	16.8



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

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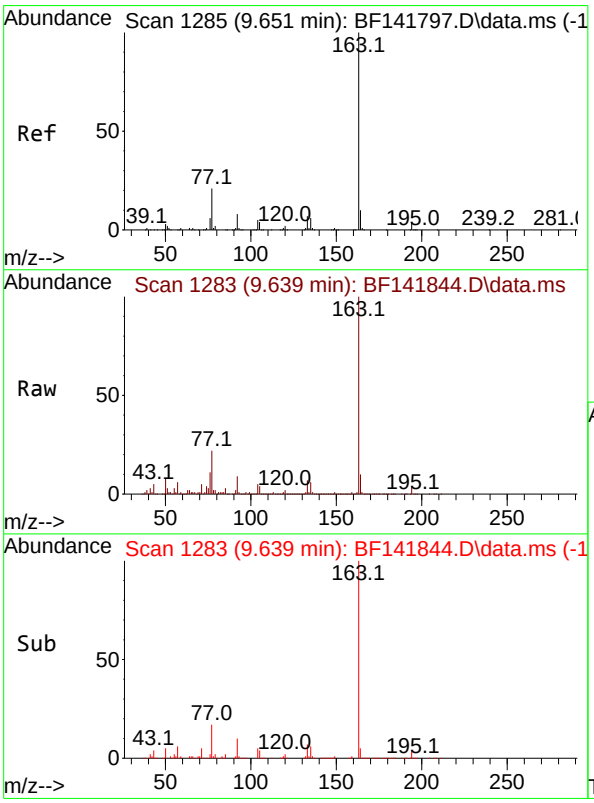
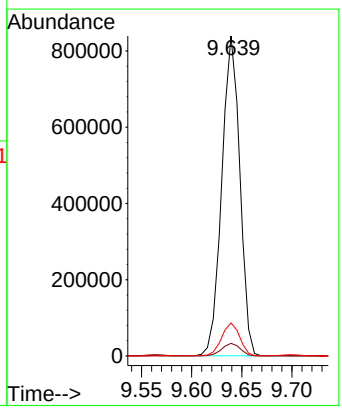
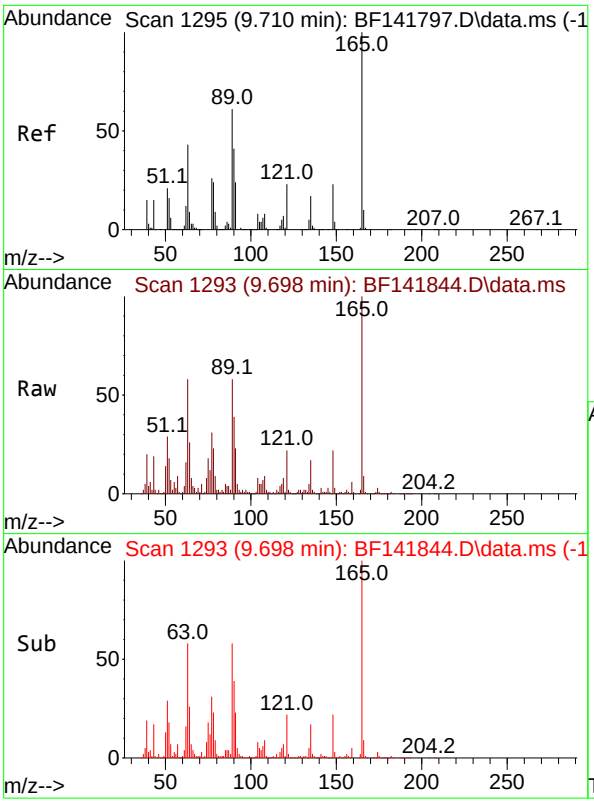


#50
Dimethylphthalate
Concen: 42.329 ng
RT: 9.639 min Scan# 1283
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:163 Resp: 1048895

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.3	8.4	12.6





#51
2,6-Dinitrotoluene
Concen: 48.952 ng
RT: 9.698 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:165 Resp: 23233

Ion	Ratio	Lower	Upper
165	100		
63	58.4	49.5	74.3
89	57.5	49.0	73.4

Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

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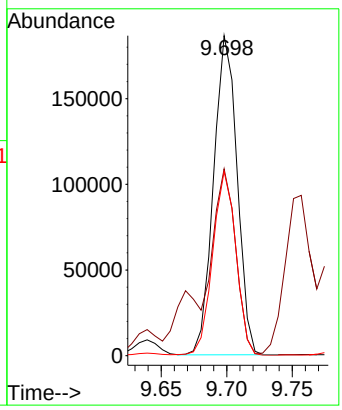
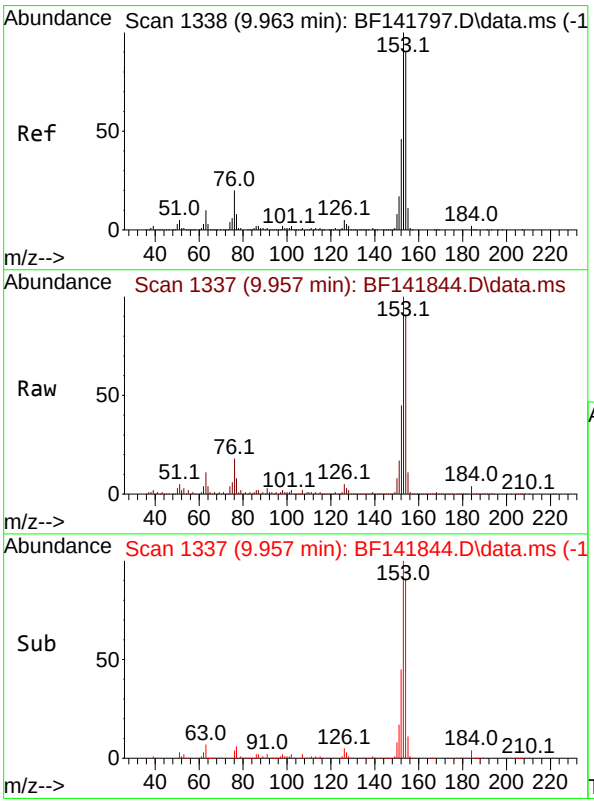
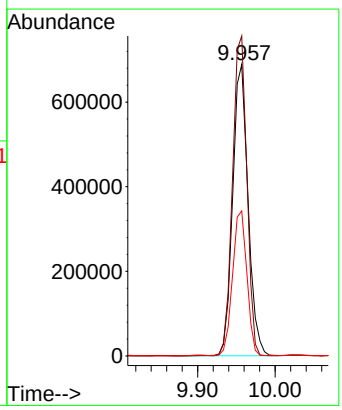


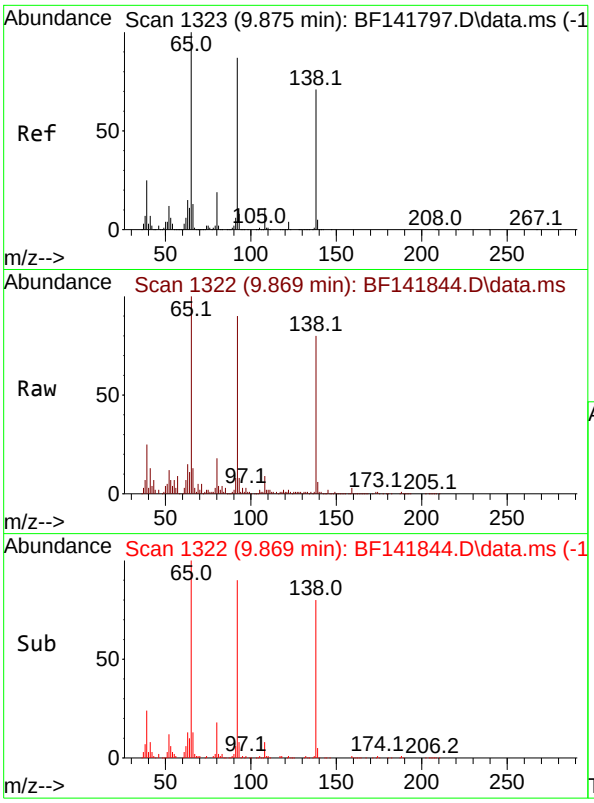


#52
Acenaphthene
Concen: 45.394 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:154 Resp: 954639

Ion	Ratio	Lower	Upper
154	100		
153	109.8	88.7	133.1
152	49.8	40.9	61.3





#53
3-Nitroaniline
Concen: 35.128 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:138 Resp: 17309

Ion	Ratio	Lower	Upper
138	100		
108	11.1	12.7	19.1#
92	113.1	97.9	146.9

Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

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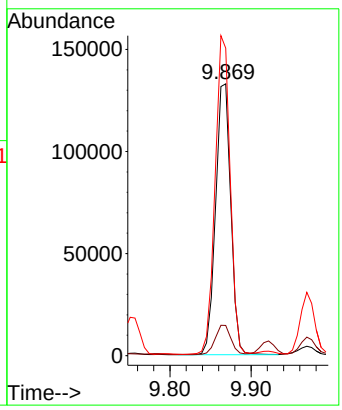
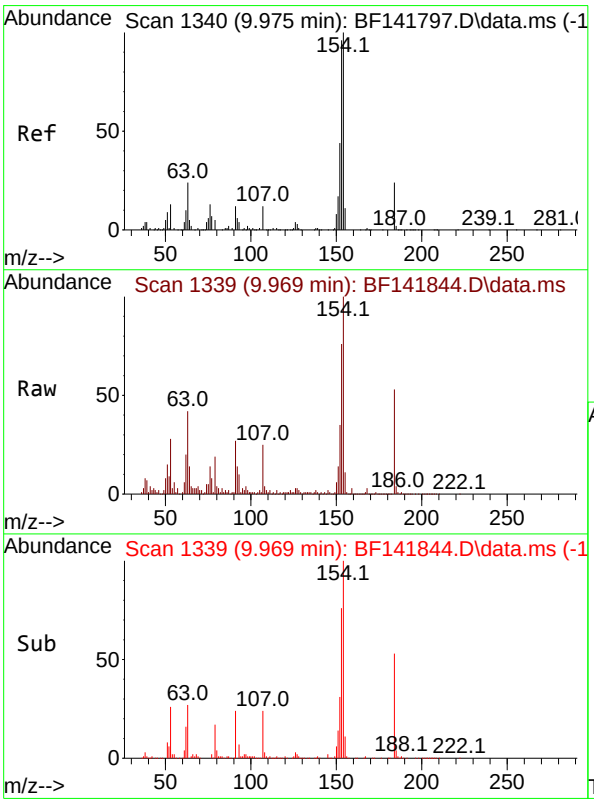
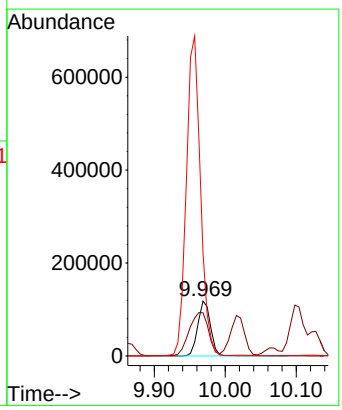


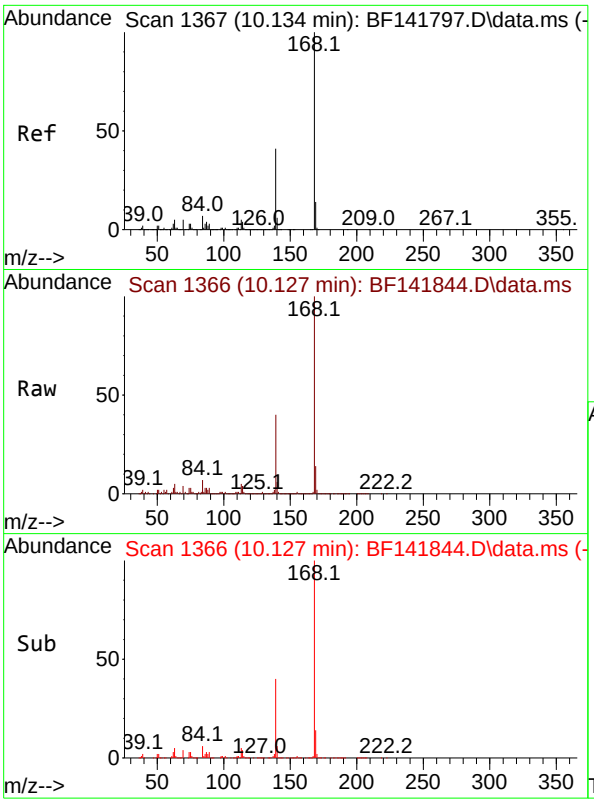


#54
2,4-Dinitrophenol
Concen: 70.645 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:184 Resp: 147123

Ion	Ratio	Lower	Upper
184	100		
63	78.7	79.0	118.6#
154	187.9	335.8	503.8#

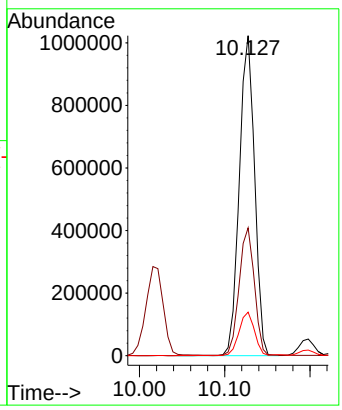




#55
Dibenzofuran
Concen: 41.477 ng
RT: 10.127 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:168 Resp: 126959

Ion	Ratio	Lower	Upper
168	100		
139	39.9	32.9	49.3
169	13.6	11.1	16.7



Instrument :
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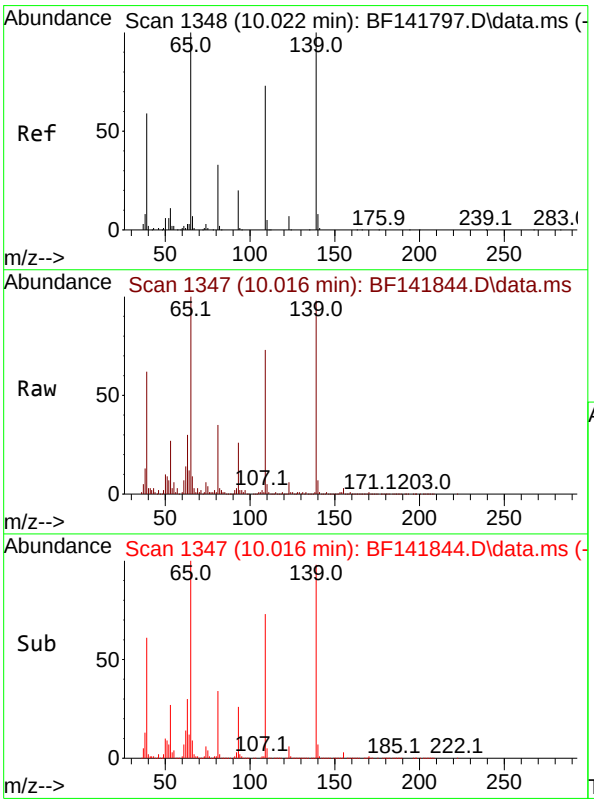
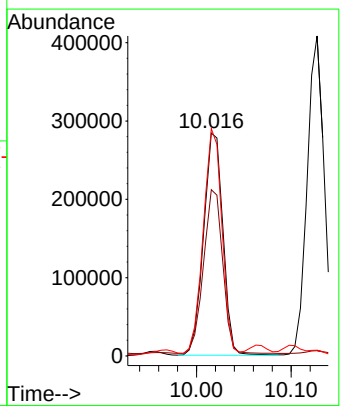
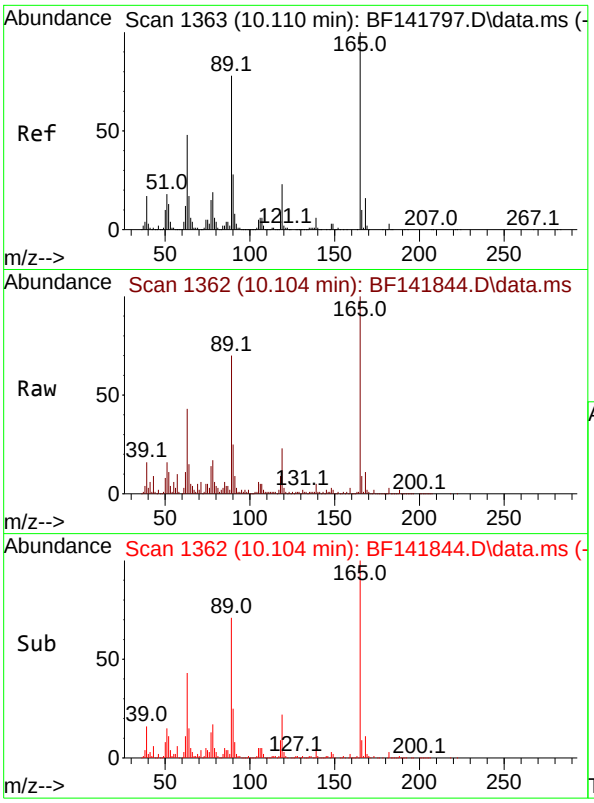


#56
4-Nitrophenol
Concen: 109.840 ng
RT: 10.016 min Scan# 1347
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:139 Resp: 401998

Ion	Ratio	Lower	Upper
139	100		
109	74.6	53.4	93.4
65	102.0	82.1	122.1

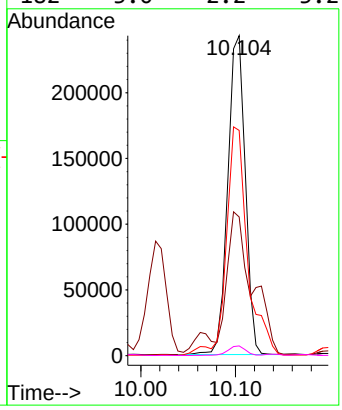




#57
2,4-Dinitrotoluene
Concen: 53.198 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:165 Resp: 31041

Ion	Ratio	Lower	Upper
165	100		
63	43.4	38.8	58.2
89	70.4	62.6	94.0
182	3.0	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
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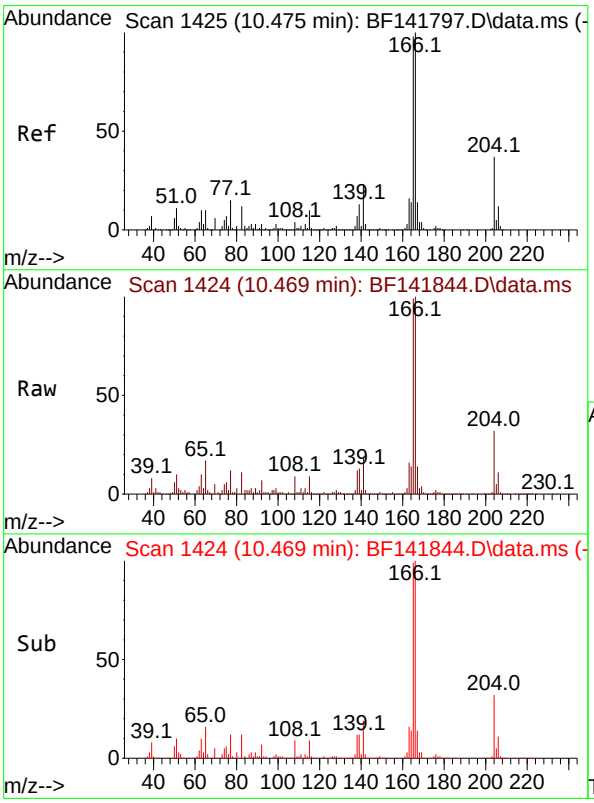
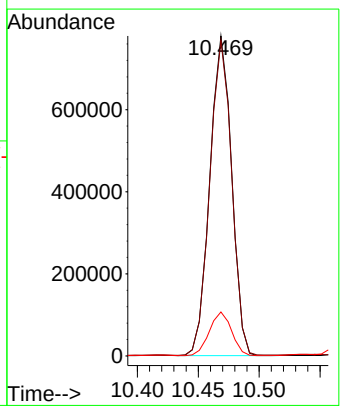
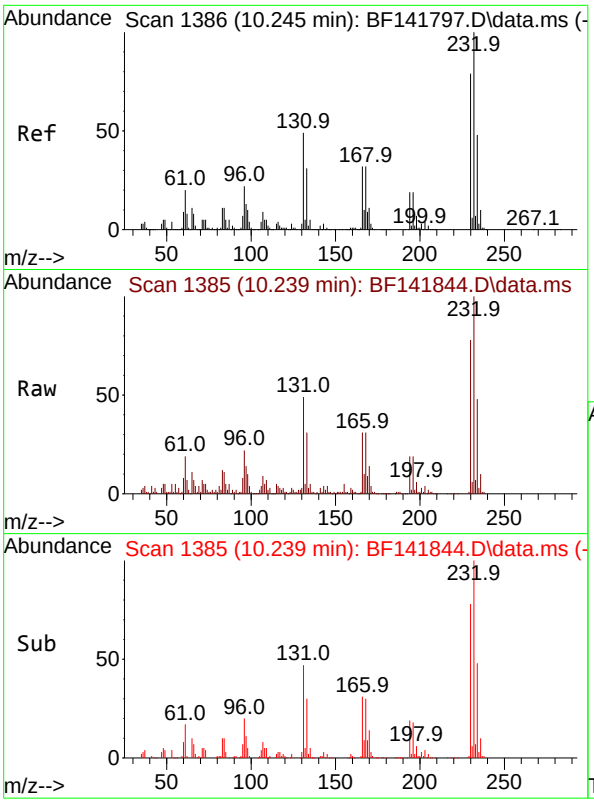


#58
Fluorene
Concen: 42.361 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:166 Resp: 971273

Ion	Ratio	Lower	Upper
166	100		
165	98.6	78.6	117.8
167	13.7	11.0	16.4

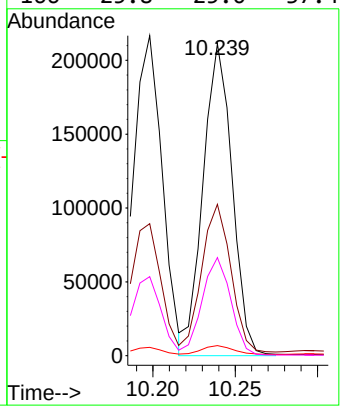




#59
2,3,4,6-Tetrachlorophenol
Concen: 43.653 ng m
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:232 Resp: 25952

Ion	Ratio	Lower	Upper
232	100		
131	42.9	37.8	56.8
130	2.5	2.0	3.0
166	25.8	25.0	37.4



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

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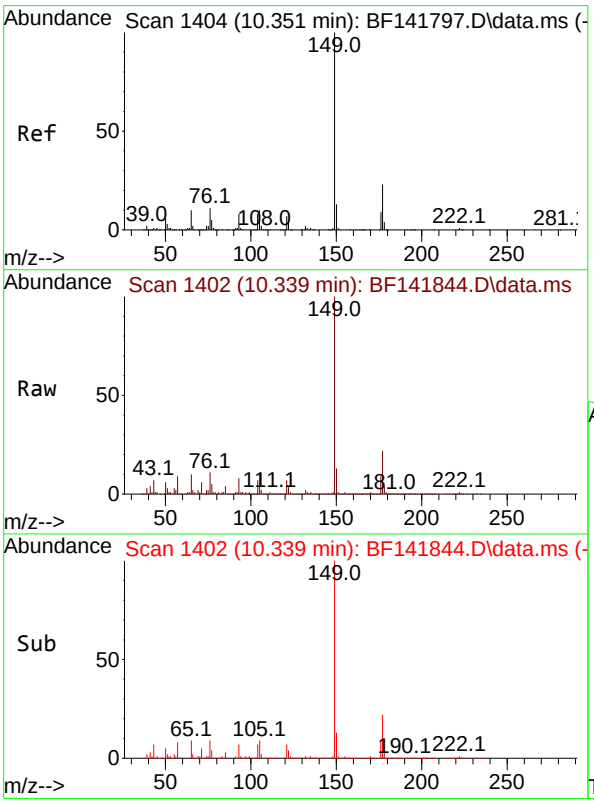
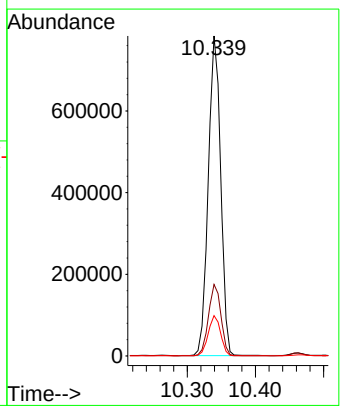
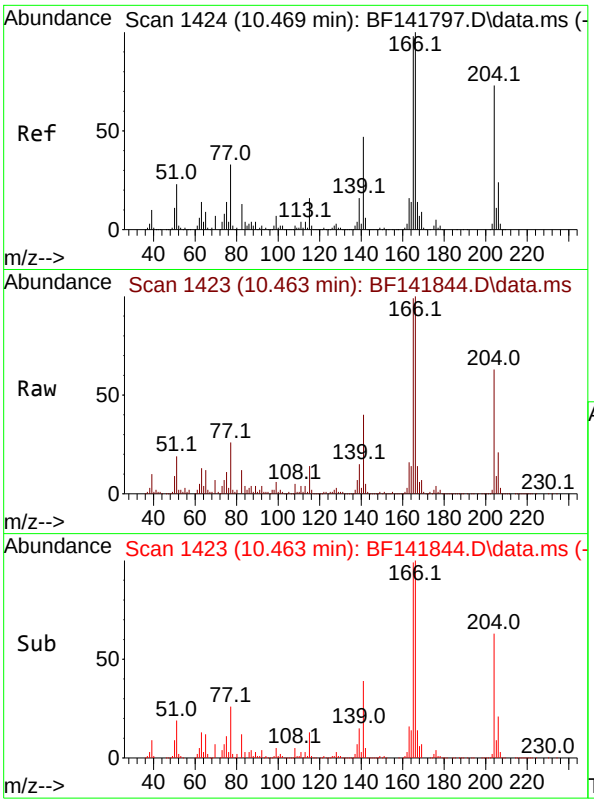


#60
Diethylphthalate
Concen: 39.903 ng
RT: 10.339 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:149 Resp: 991255

Ion	Ratio	Lower	Upper
149	100		
177	22.4	18.3	27.5
150	12.6	10.3	15.5





#61
4-Chlorophenyl-phenylether
Concen: 40.915 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:204 Resp: 47002

Ion	Ratio	Lower	Upper
204	100		
206	33.3	26.2	39.4
141	62.9	51.7	77.5

Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

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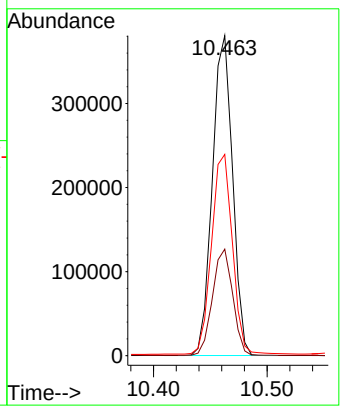
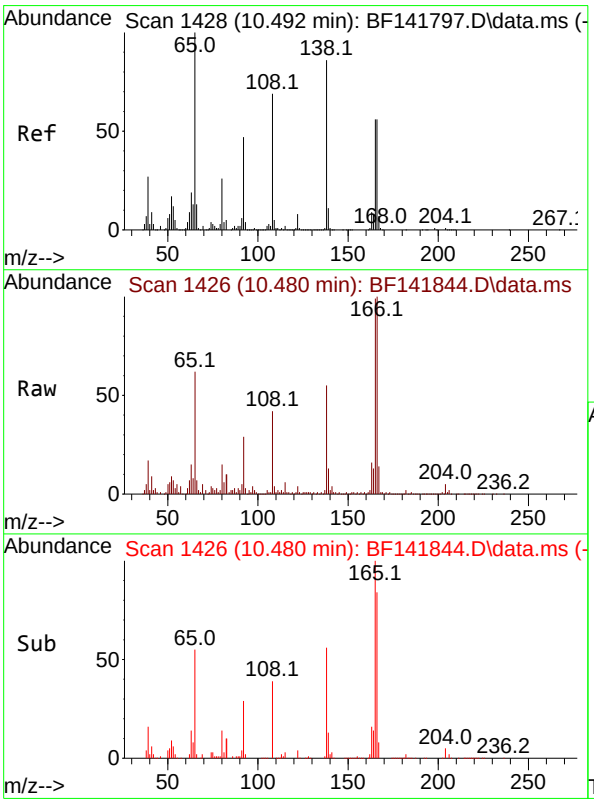
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

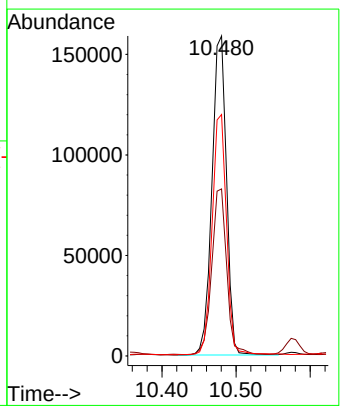


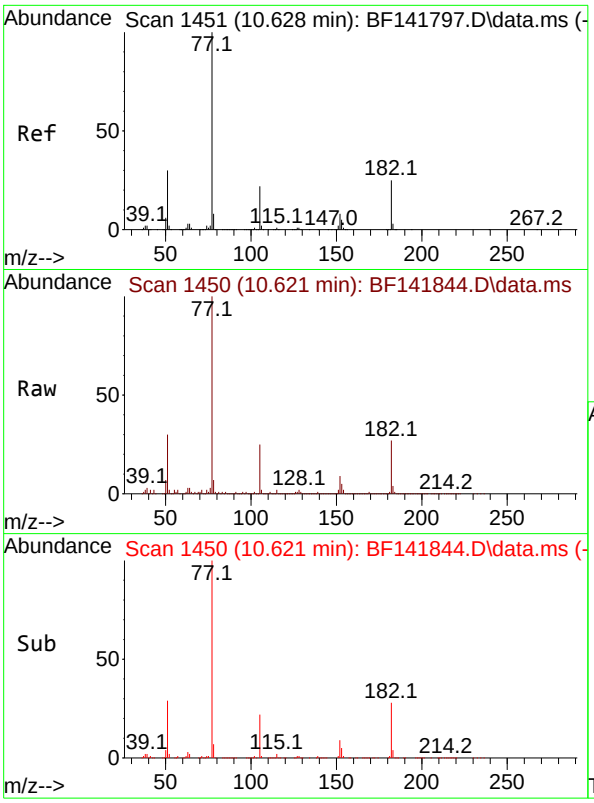


#62
4-Nitroaniline
Concen: 51.021 ng
RT: 10.480 min Scan# 1426
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:138 Resp: 215910

Ion	Ratio	Lower	Upper
138	100		
92	52.2	34.9	74.9
108	75.4	59.6	99.6

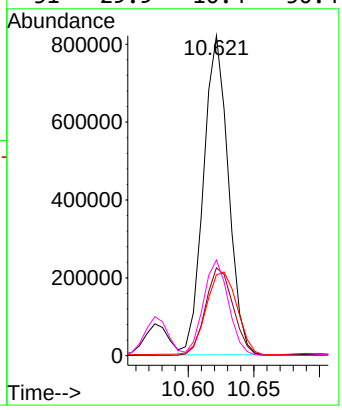




#63
Azobenzene
Concen: 41.298 ng
RT: 10.621 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 77 Resp: 108020

Ion	Ratio	Lower	Upper
77	100		
182	27.5	4.2	44.2
105	25.3	1.5	41.5
51	29.9	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
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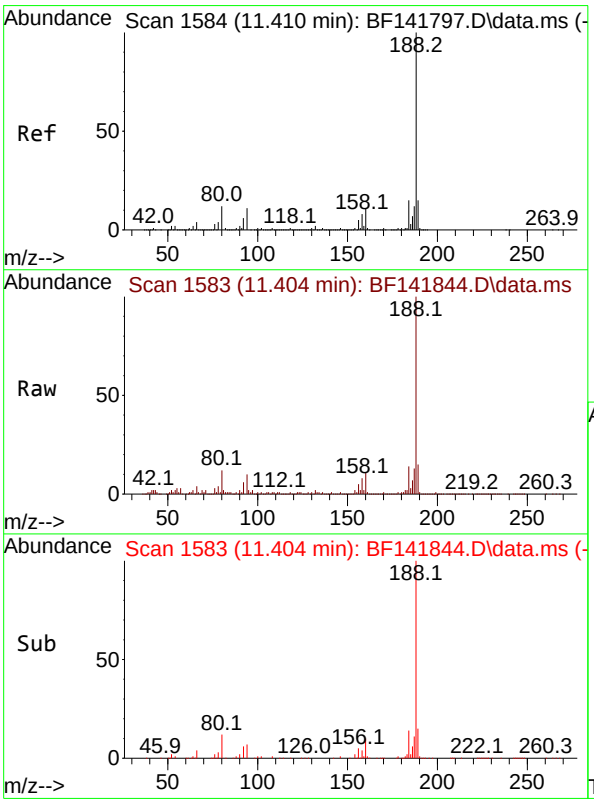
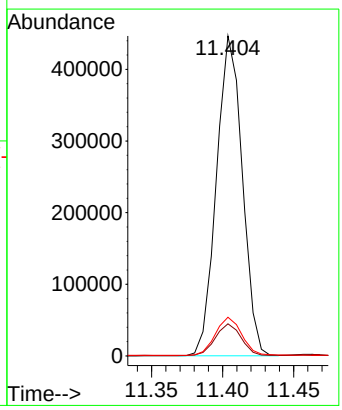
Supervised By :Jagrut Upadhyay 03/06/2025

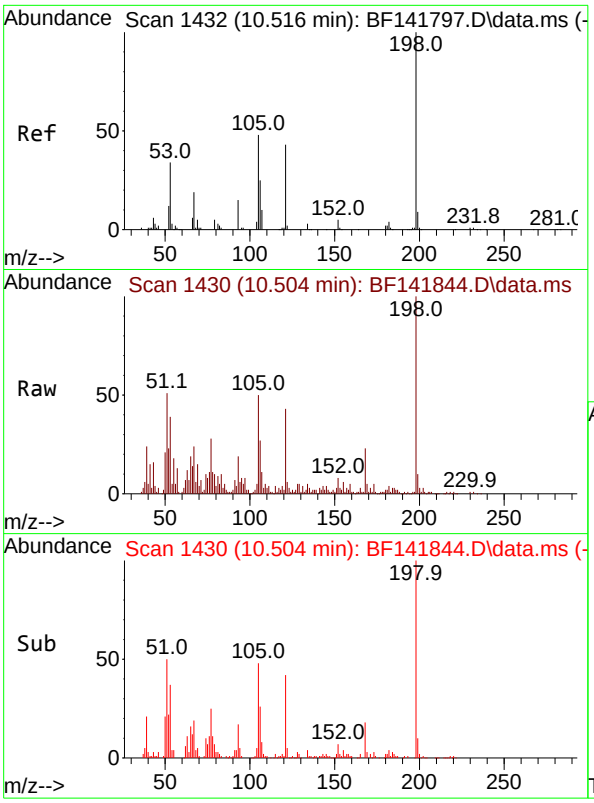


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:188 Resp: 565314

Ion	Ratio	Lower	Upper
188	100		
94	10.0	8.9	13.3
80	12.1	9.7	14.5

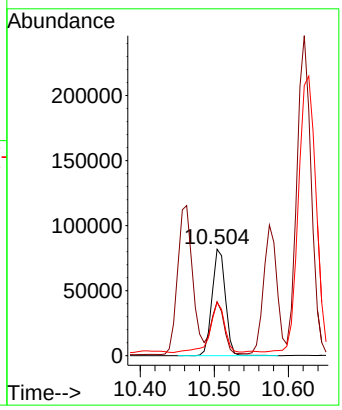




#65
4,6-Dinitro-2-methylphenol
Concen: 40.086 ng
RT: 10.504 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:198 Resp: 10241

Ion	Ratio	Lower	Upper
198	100		
51	50.7	32.1	72.1
105	50.0	28.5	68.5



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

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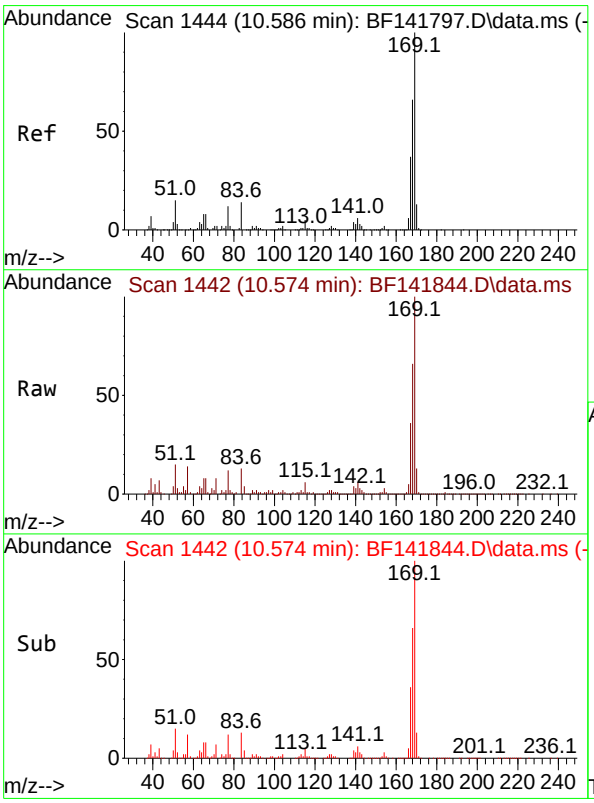
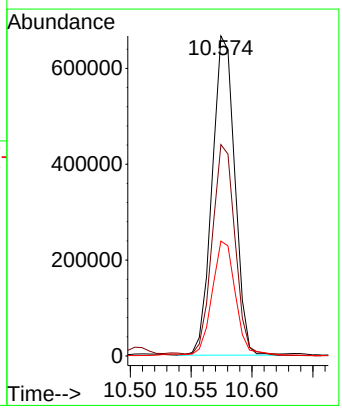
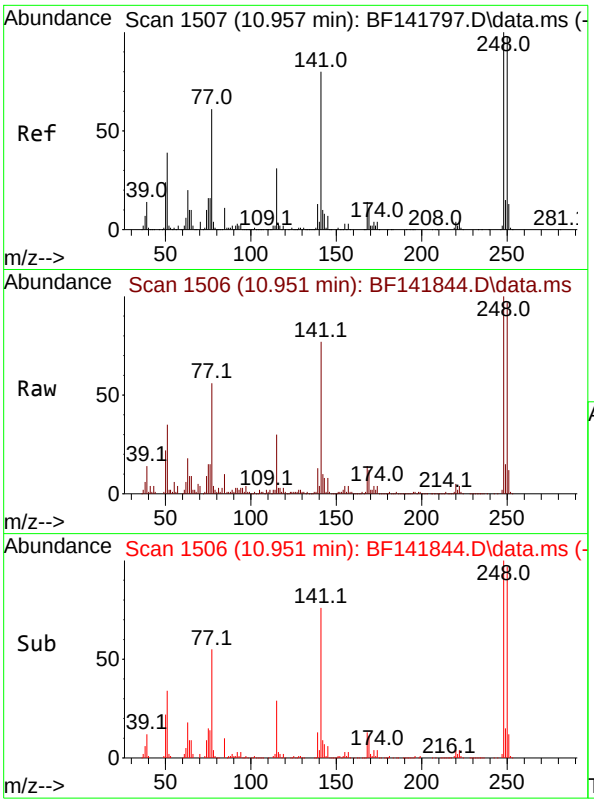


#66
n-Nitrosodiphenylamine
Concen: 46.428 ng
RT: 10.574 min Scan# 1442
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:169 Resp: 861837

Ion	Ratio	Lower	Upper
169	100		
168	66.1	53.0	79.6
167	35.9	29.3	43.9





#67
4-Bromophenyl-phenylether
Concen: 43.759 ng
RT: 10.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:248 Resp: 28894

Ion	Ratio	Lower	Upper
248	100		
250	97.4	78.1	117.1
141	76.8	64.3	96.5

Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

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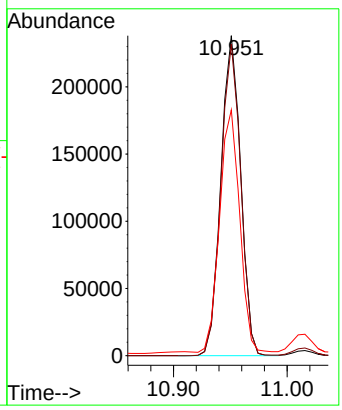
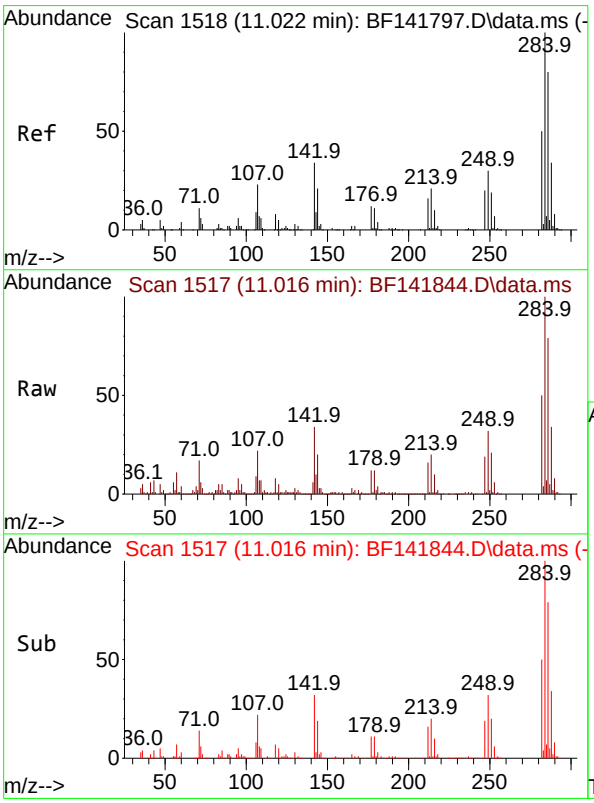
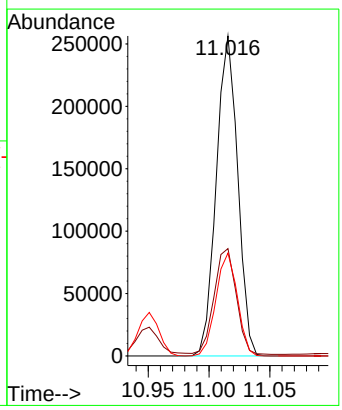


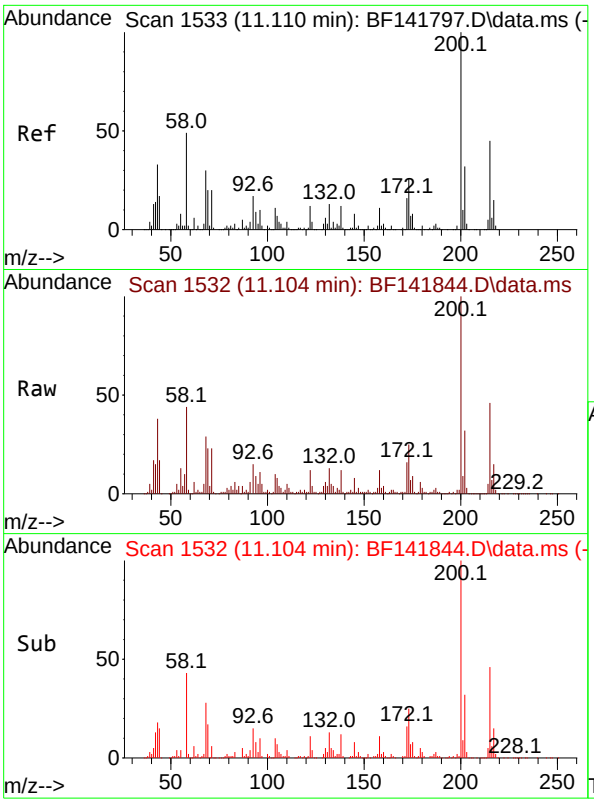


#68
Hexachlorobenzene
Concen: 45.037 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:284 Resp: 314028

Ion	Ratio	Lower	Upper
284	100		
142	33.6	28.2	42.2
249	32.1	25.5	38.3

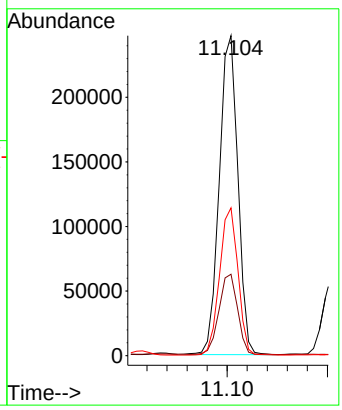




#69
Atrazine
Concen: 62.190 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:200 Resp: 31746

Ion	Ratio	Lower	Upper
200	100		
173	25.4	5.6	45.6
215	46.2	25.3	65.3



Instrument :
BNA_F
ClientSampleId :
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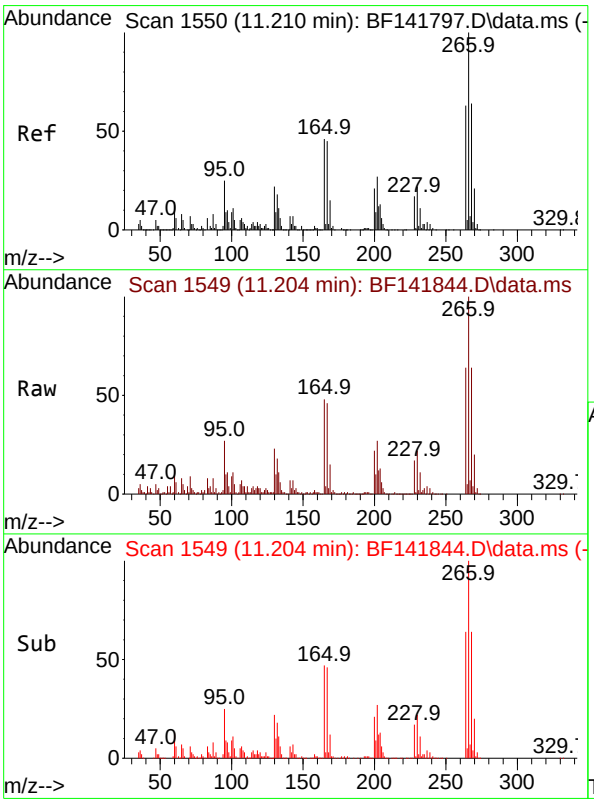
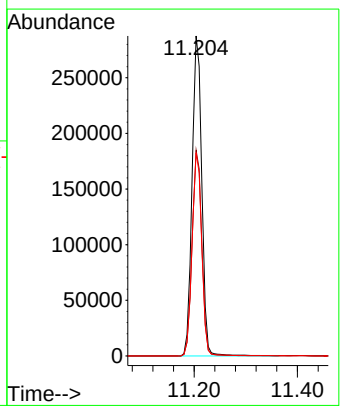
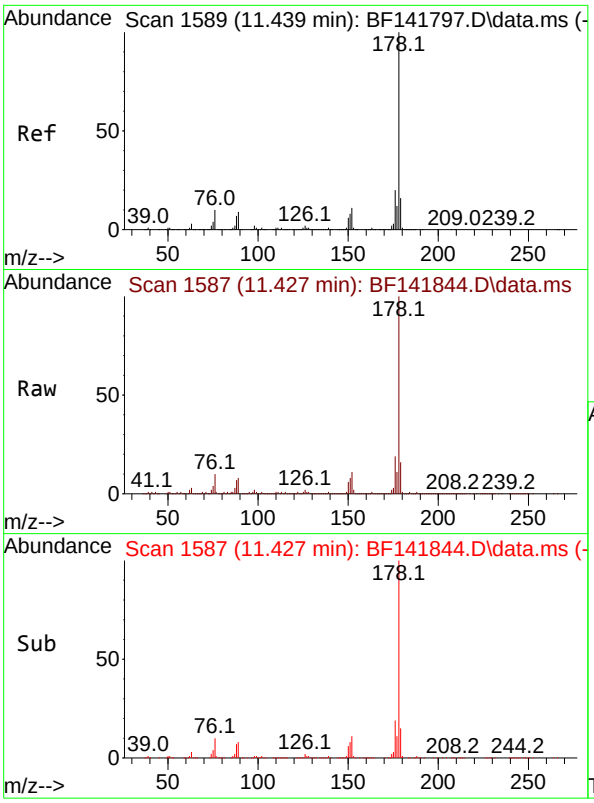


#70
Pentachlorophenol
Concen: 84.690 ng
RT: 11.204 min Scan# 1549
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:266 Resp: 374526

Ion	Ratio	Lower	Upper
266	100		
268	64.3	50.9	76.3
264	63.5	50.2	75.4

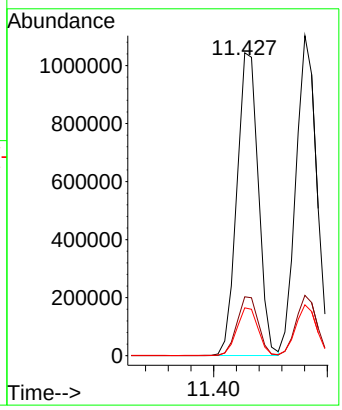




#71
Phenanthrene
Concen: 45.003 ng
RT: 11.427 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:178 Resp: 136084

Ion	Ratio	Lower	Upper
178	100		
176	19.5	16.0	24.0
179	15.8	12.6	19.0



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
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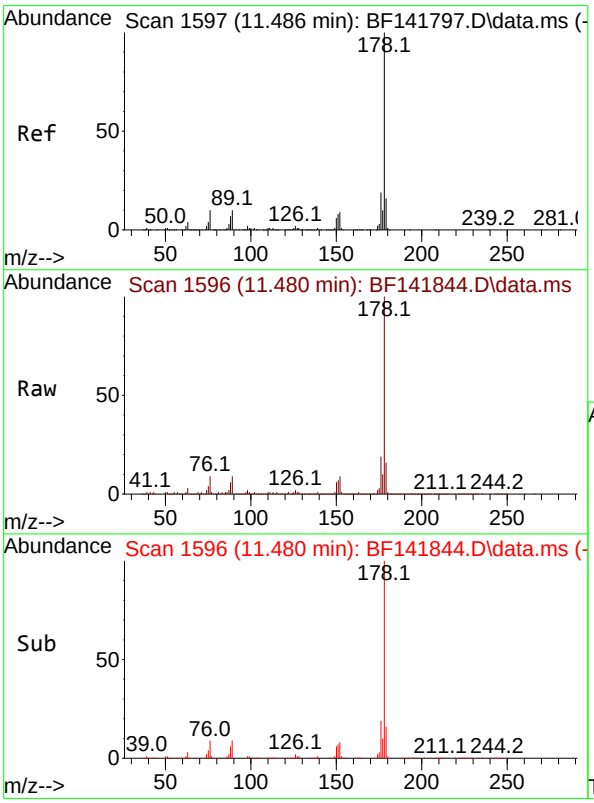
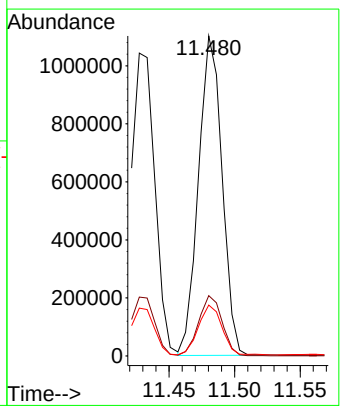
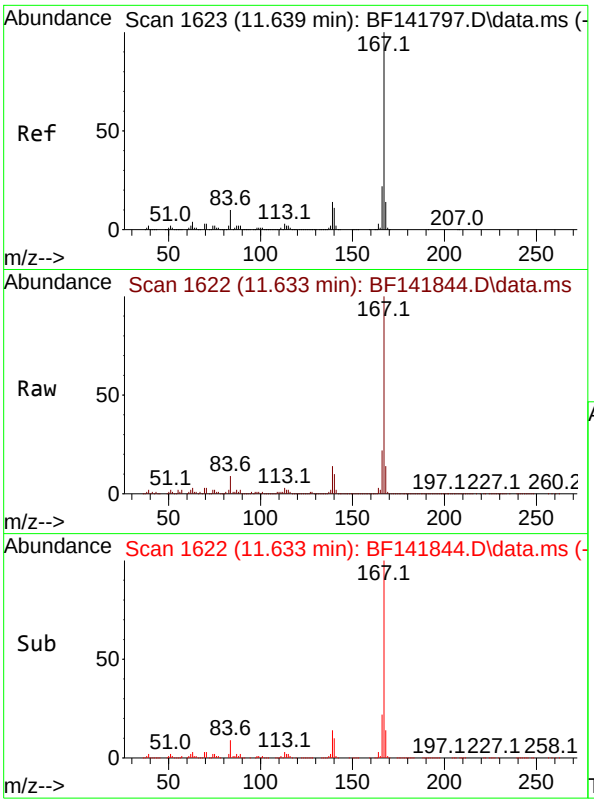


#72
Anthracene
Concen: 45.574 ng
RT: 11.480 min Scan# 1596
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:178 Resp: 1381172

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.0
179	15.9	12.8	19.2

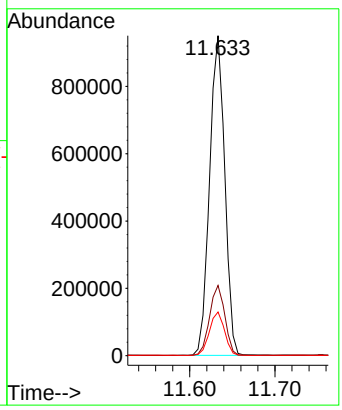




#73
Carbazole
Concen: 43.987 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:167 Resp: 117719

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.5	26.3
139	13.6	11.3	16.9



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

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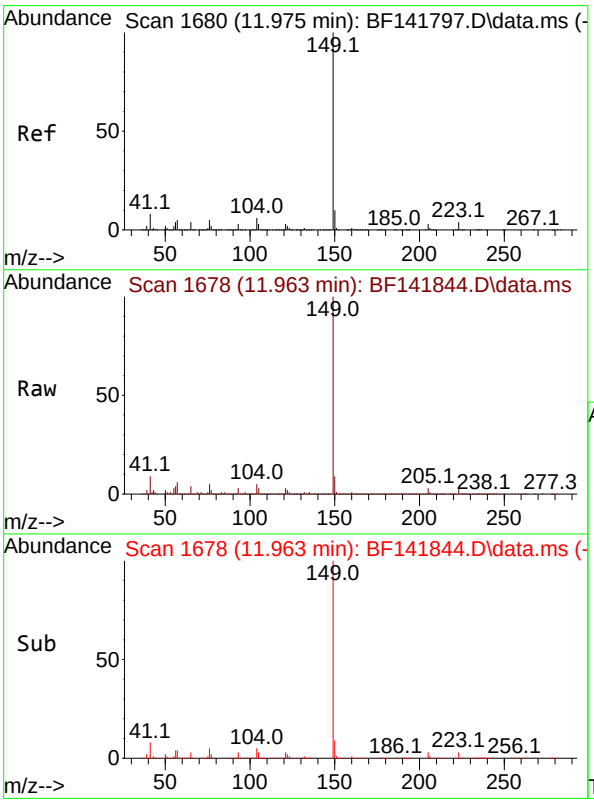
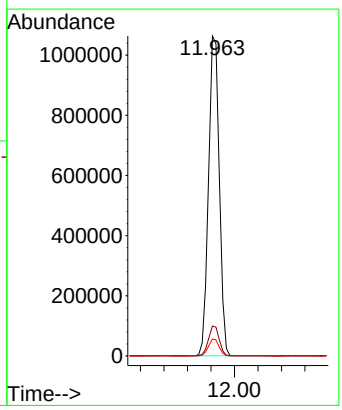
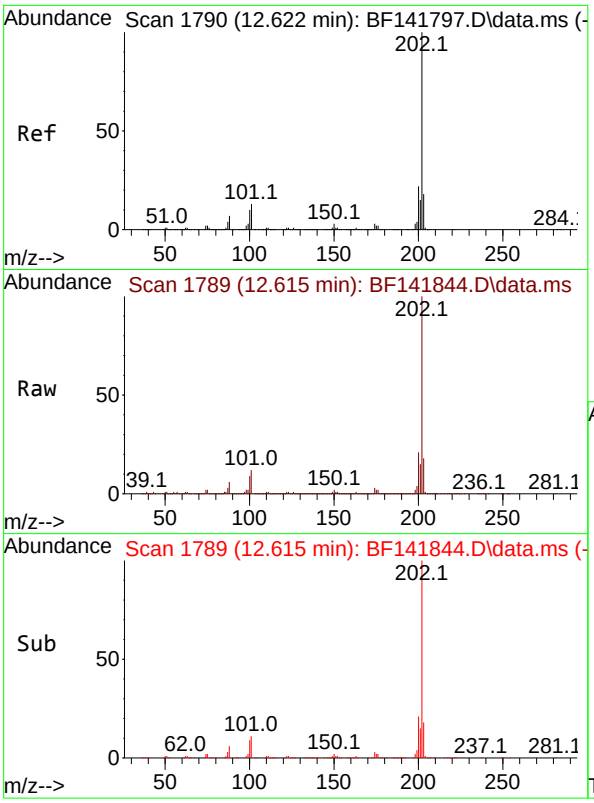


#74
Di-n-butylphthalate
Concen: 40.005 ng
RT: 11.963 min Scan# 1678
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:149 Resp: 1357104

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.7	11.5
104	5.3	4.4	6.6

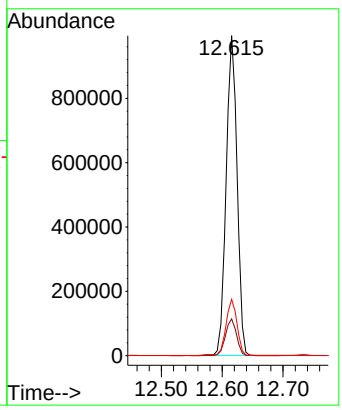




#75
Fluoranthene
Concen: 40.050 ng
RT: 12.615 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:202 Resp: 124093

Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	32.8
203	17.6	0.0	38.0



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

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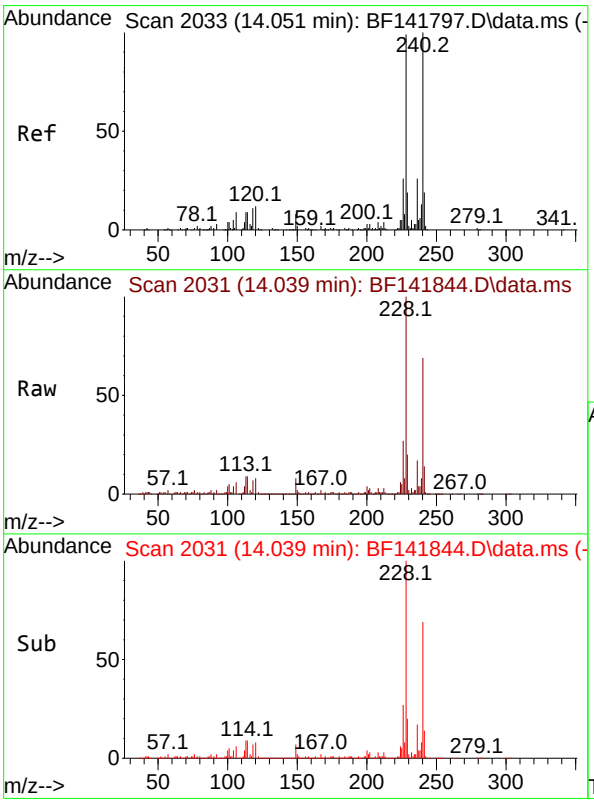
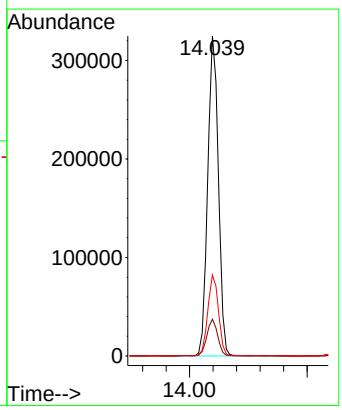
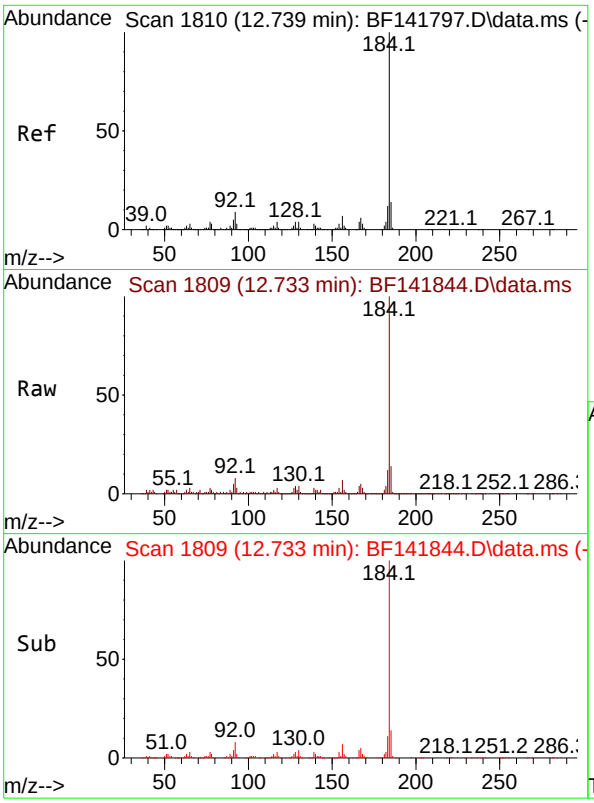


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:240 Resp: 409462

Ion	Ratio	Lower	Upper
240	100		
120	11.5	9.7	14.5
236	25.3	21.0	31.4

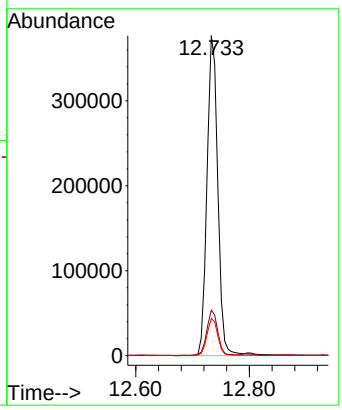




#77
Benzidine
Concen: 96.436 ng
RT: 12.733 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:184 Resp: 49699

Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.6	17.4
183	11.6	9.4	14.0



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

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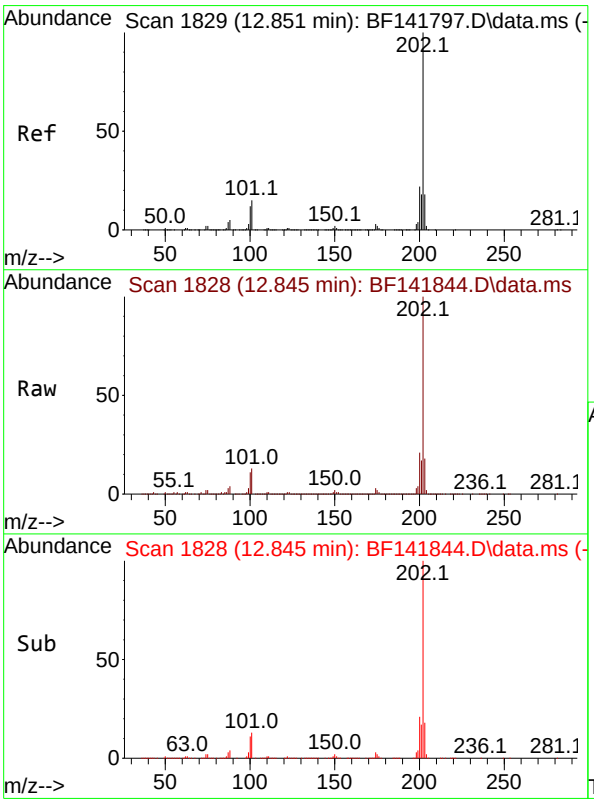
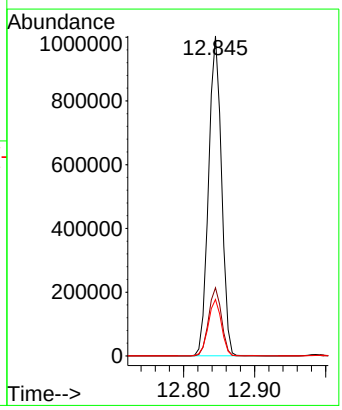
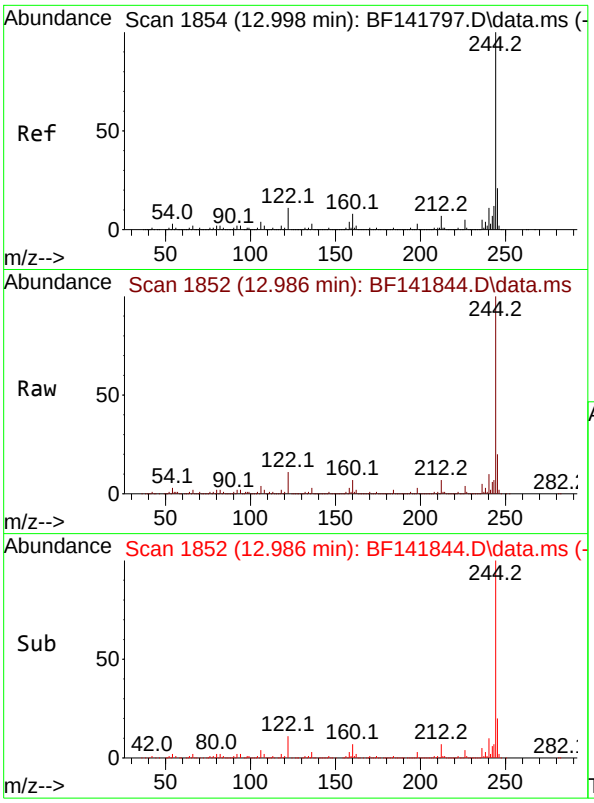


#78
Pyrene
Concen: 35.792 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:202 Resp: 1269067

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.4	26.0
203	17.6	14.6	22.0

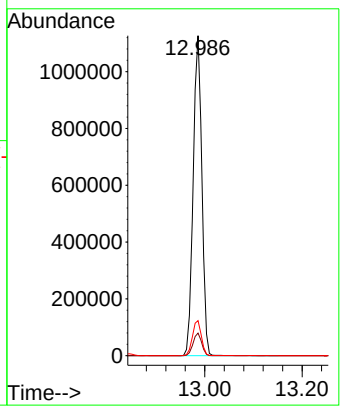




#79
Terphenyl-d14
Concen: 55.502 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:244 Resp: 140464

Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	10.9	9.0	13.6



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
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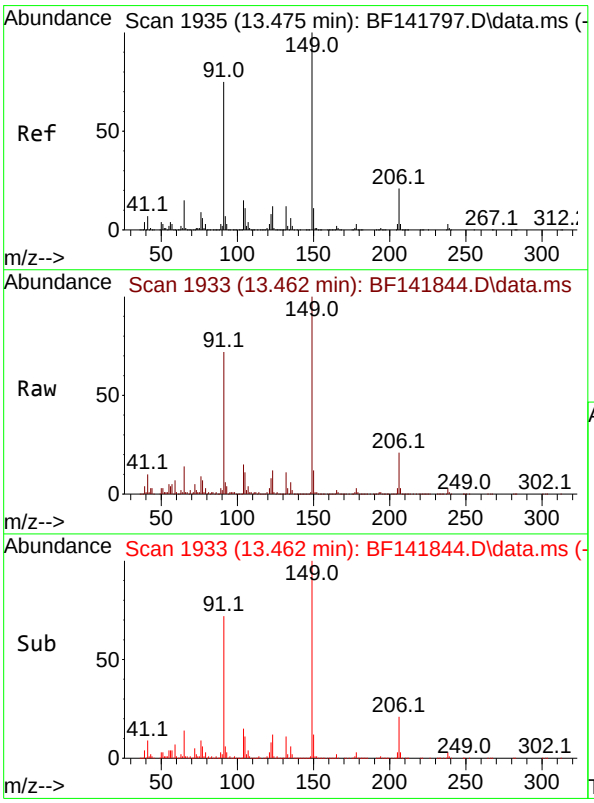
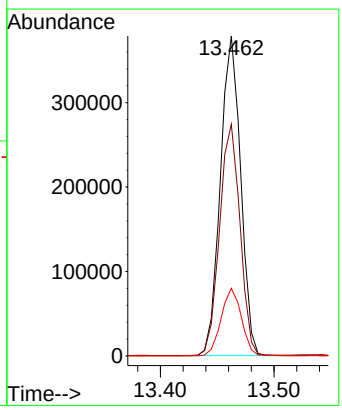
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

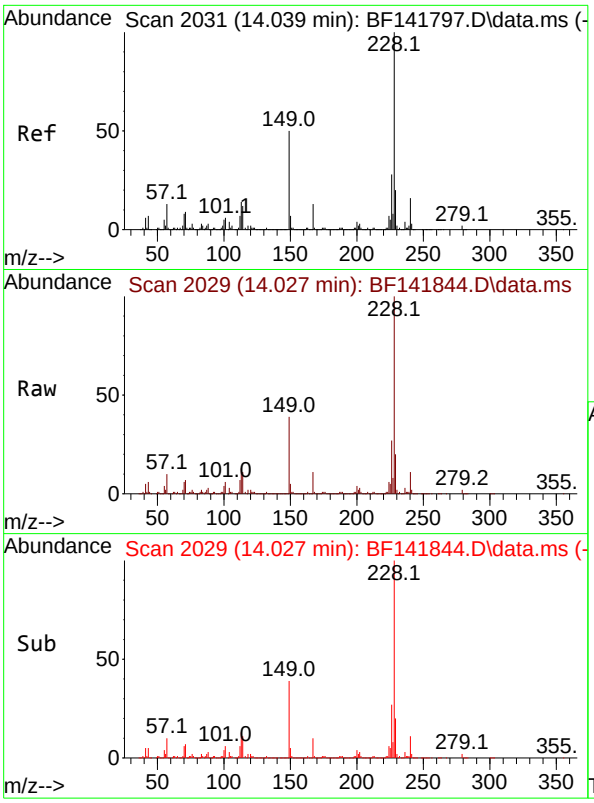


#80
Butylbenzylphthalate
Concen: 36.456 ng
RT: 13.462 min Scan# 1933
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:149 Resp: 469636

Ion	Ratio	Lower	Upper
149	100		
91	72.4	60.1	90.1
206	21.2	16.8	25.2

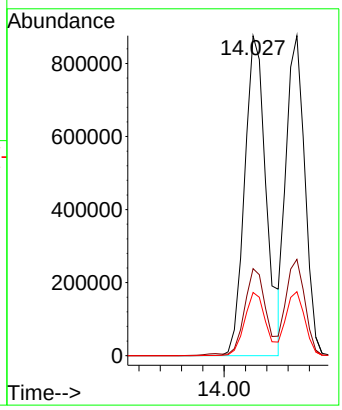




#81
Benzo(a)anthracene
Concen: 45.561 ng
RT: 14.027 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:228 Resp: 123222

Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.1	33.1
229	19.7	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
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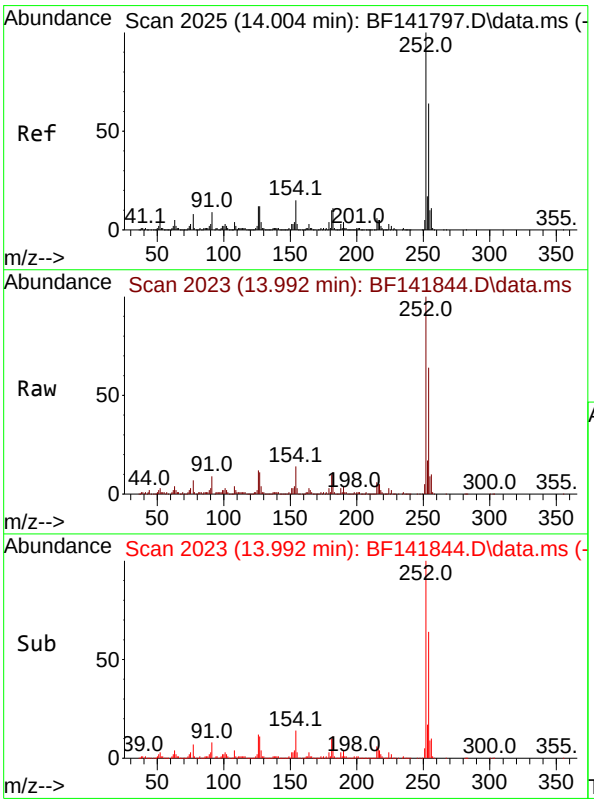
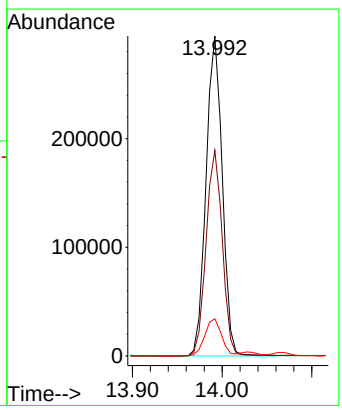
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

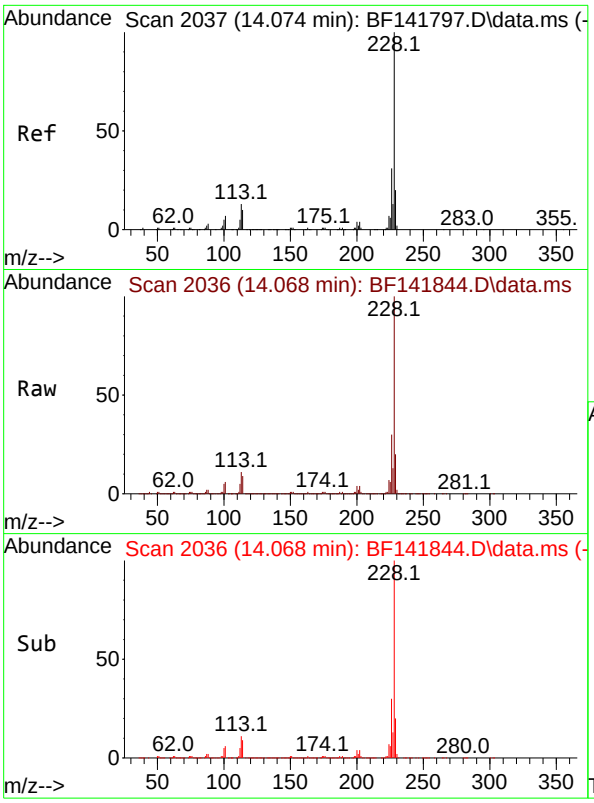


#82
3,3'-Dichlorobenzidine
Concen: 47.653 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:252 Resp: 369769

Ion	Ratio	Lower	Upper
252	100		
254	64.2	51.4	77.0
126	11.6	9.8	14.6

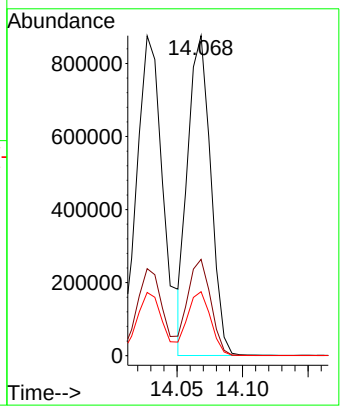




#83
Chrysene
Concen: 42.613 ng
RT: 14.068 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:228 Resp: 106238

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.6	37.0
229	20.0	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
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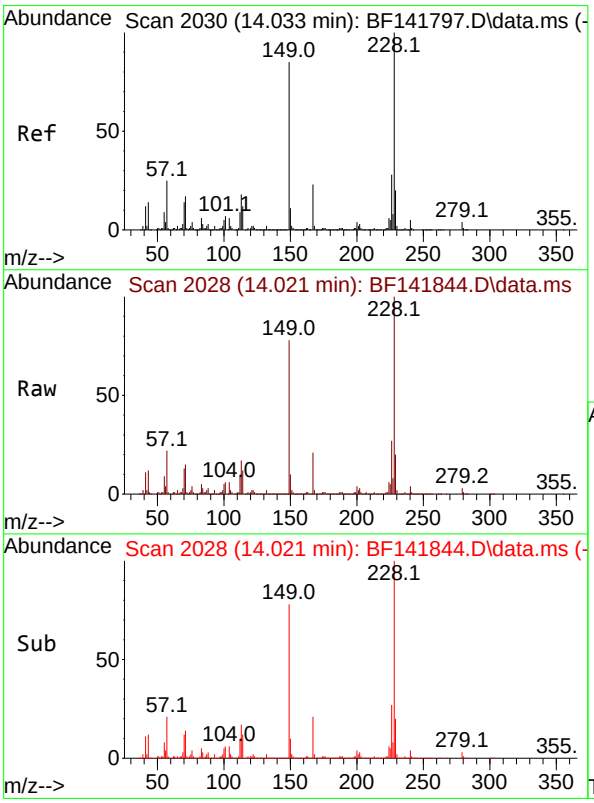
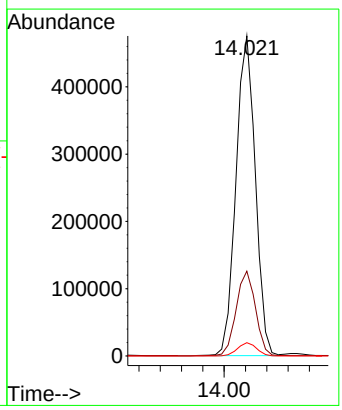
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

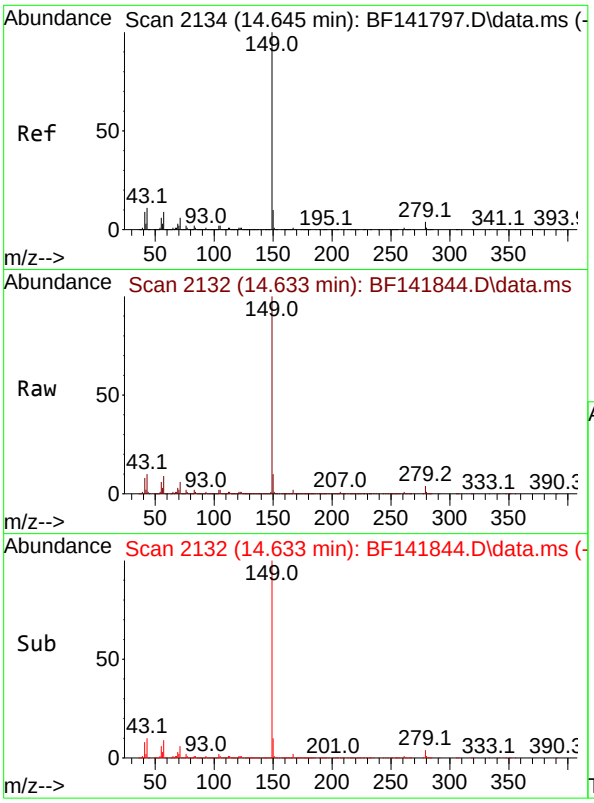


#84
Bis(2-ethylhexyl)phthalate
Concen: 37.423 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:149 Resp: 600275

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.2	31.8
279	4.2	3.3	4.9

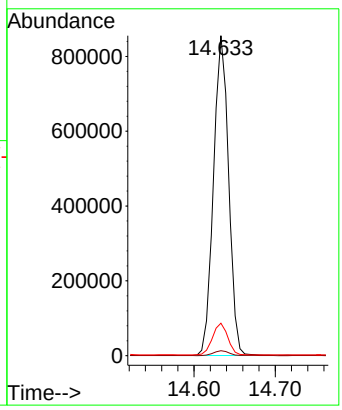




#85
Di-n-octyl phthalate
Concen: 46.163 ng
RT: 14.633 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:149 Resp: 110857

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	10.0	8.6	12.8



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
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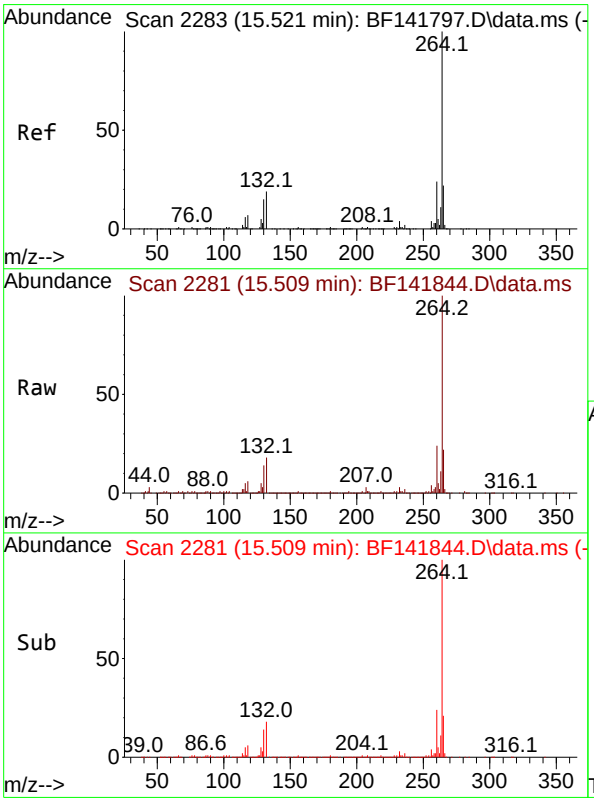
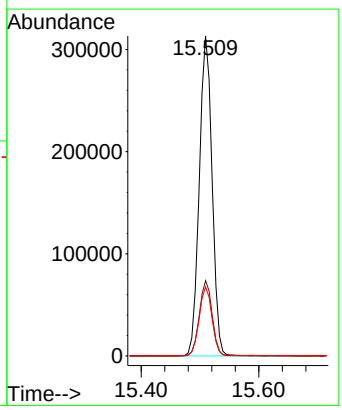
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

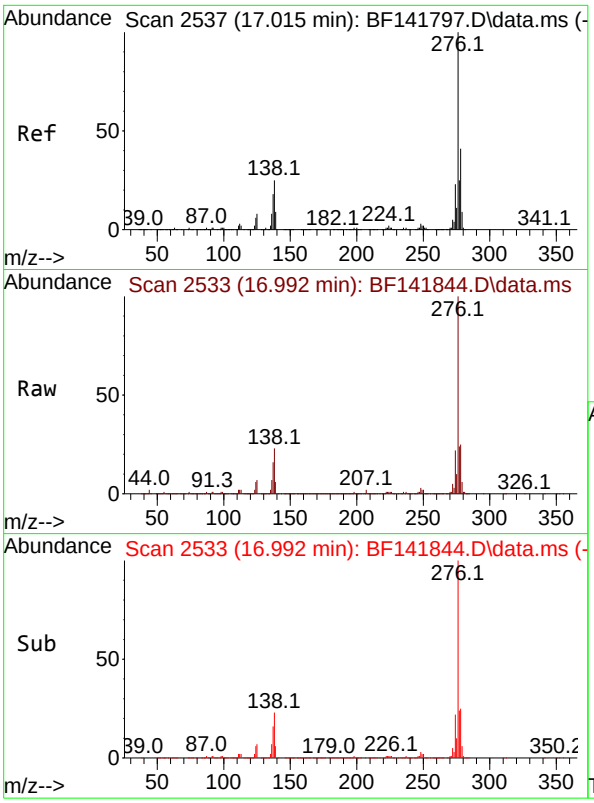


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:264 Resp: 473342

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.9	28.3
265	21.6	17.4	26.0

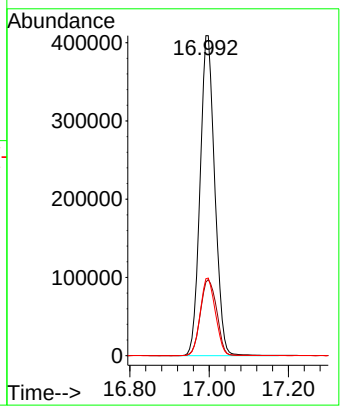




#87
Indeno(1,2,3-cd)pyrene
Concen: 34.852 ng
RT: 16.992 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:276 Resp: 105046

Ion	Ratio	Lower	Upper
276	100		
138	26.5	22.5	33.7
277	25.2	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
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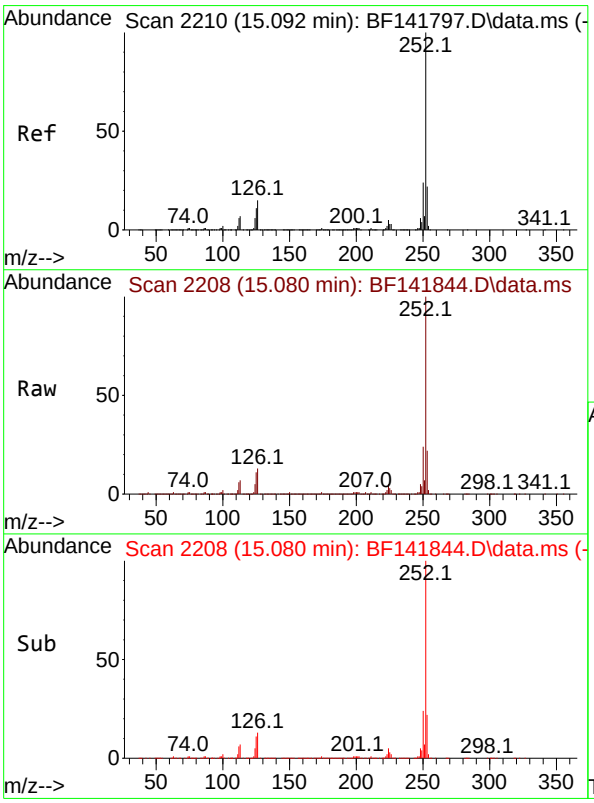
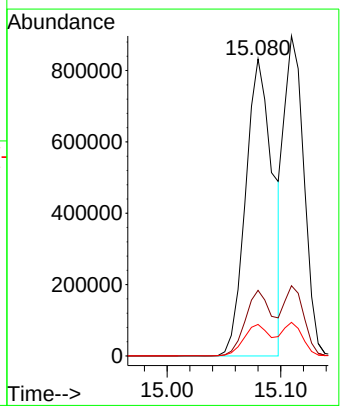
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

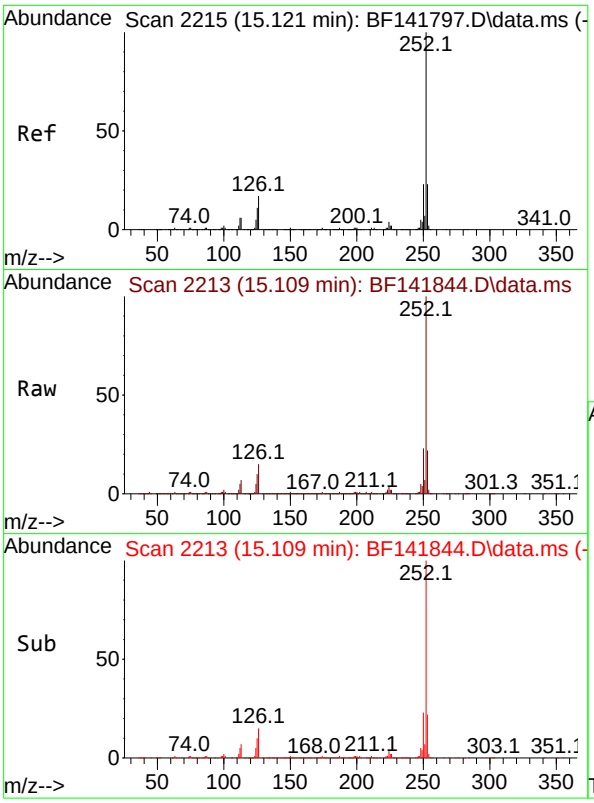


#88
Benzo(b)fluoranthene
Concen: 43.082 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:252 Resp: 1389072

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	10.6	8.6	13.0

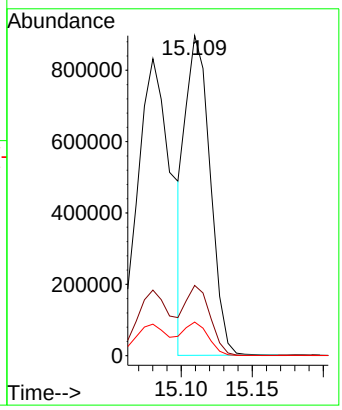




#89
Benzo(k)fluoranthene
Concen: 39.606 ng
RT: 15.109 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:252 Resp: 108539

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.8
125	10.5	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
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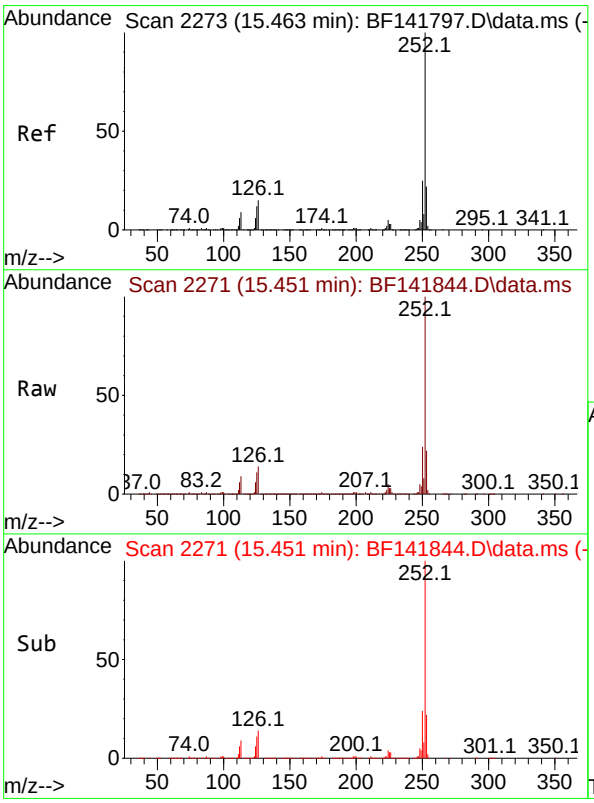
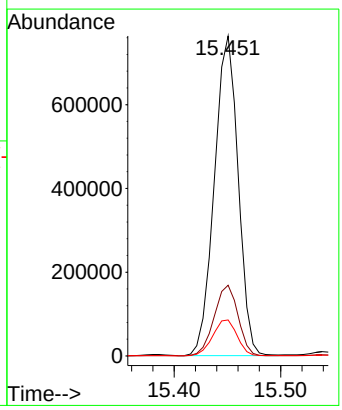
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

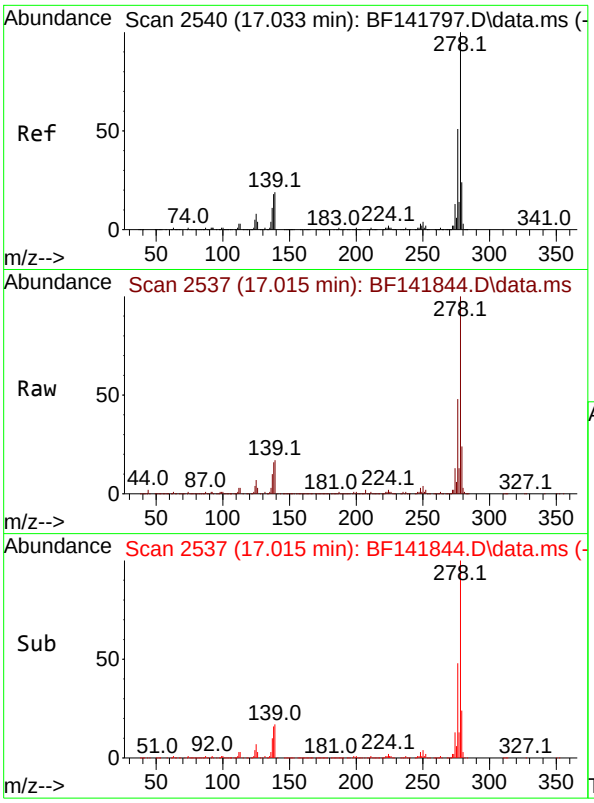


#90
Benzo(a)pyrene
Concen: 45.749 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:252 Resp: 1182996

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	11.3	9.4	14.2

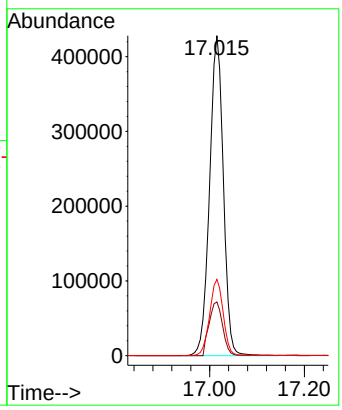




#91
Dibenzo(a,h)anthracene
Concen: 35.102 ng
RT: 17.015 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:278 Resp: 86359

Ion	Ratio	Lower	Upper
278	100		
139	16.8	14.9	22.3
279	23.8	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
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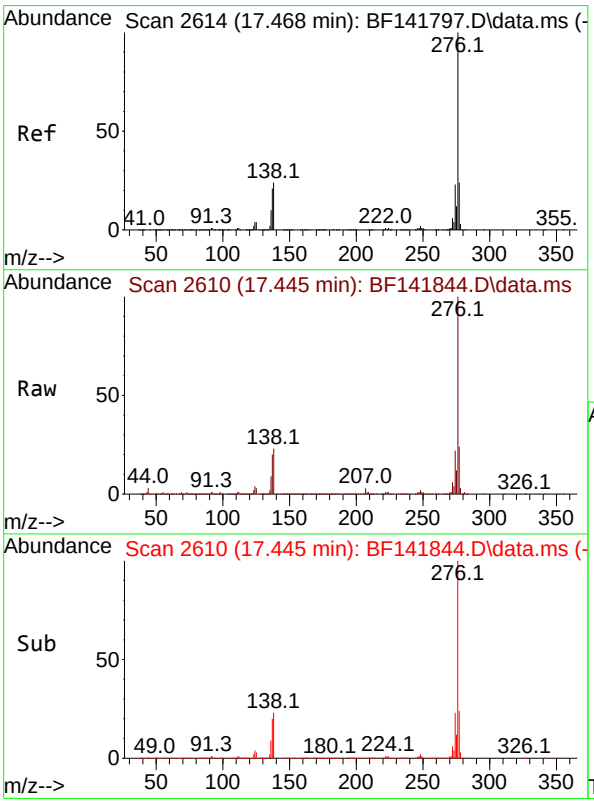
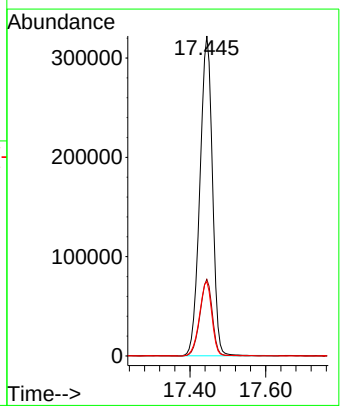
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#92
Benzo(g,h,i)perylene
Concen: 29.280 ng
RT: 17.445 min Scan# 2610
Delta R.T. -0.024 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:276 Resp: 737995

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.4	29.0
138	23.2	19.3	28.9



Raw Data: **BF141845.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	DN-B-42MSD	SDG No.:	Q1488
Lab Sample ID:	Q1487-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
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
BF141845.D	1	03/05/25 09:40	03/05/25 15:51	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	860		210	370	ug/Kg
108-95-2	Phenol	1700		93.9	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		94.8	190	ug/Kg
95-57-8	2-Chlorophenol	1700		94.6	190	ug/Kg
95-48-7	2-Methylphenol	1600		91.3	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		100	190	ug/Kg
98-86-2	Acetophenone	1800		98.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	1600		90.4	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		45.7	90.7	ug/Kg
67-72-1	Hexachloroethane	1600		94.1	190	ug/Kg
98-95-3	Nitrobenzene	1800		100	190	ug/Kg
78-59-1	Isophorone	1600		95.9	190	ug/Kg
88-75-5	2-Nitrophenol	1900		110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2000		110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		97.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		85.6	190	ug/Kg
91-20-3	Naphthalene	1600		93.6	190	ug/Kg
106-47-8	4-Chloroaniline	950		93.6	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		94.4	190	ug/Kg
105-60-2	Caprolactam	1900		98.4	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		87.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	1500		93.5	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4900	E	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		80.9	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1800		83.9	190	ug/Kg
92-52-4	1,1-Biphenyl	1900		99.0	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		94.4	190	ug/Kg
88-74-4	2-Nitroaniline	2000		110	190	ug/Kg
131-11-3	Dimethylphthalate	1600		92.6	190	ug/Kg

Raw Data: **BF141845.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	DN-B-42MSD	SDG No.:	Q1488
Lab Sample ID:	Q1487-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
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
BF141845.D	1	03/05/25 09:40	03/05/25 15:51	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		98.0	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		94.3	190	ug/Kg
99-09-2	3-Nitroaniline	1400		100	190	ug/Kg
83-32-9	Acenaphthene	1800		91.9	190	ug/Kg
51-28-5	2,4-Dinitrophenol	2800		280	370	ug/Kg
100-02-7	4-Nitrophenol	4300	E	130	370	ug/Kg
132-64-9	Dibenzofuran	1600		95.6	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		97.7	190	ug/Kg
84-66-2	Diethylphthalate	1500		90.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		97.0	190	ug/Kg
86-73-7	Fluorene	1600		96.9	190	ug/Kg
100-01-6	4-Nitroaniline	2000		120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1600		130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1700		92.5	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		89.4	190	ug/Kg
118-74-1	Hexachlorobenzene	1700		96.3	190	ug/Kg
1912-24-9	Atrazine	2400		100	190	ug/Kg
87-86-5	Pentachlorophenol	3200	E	87.6	370	ug/Kg
85-01-8	Phenanthrene	1700		95.2	190	ug/Kg
120-12-7	Anthracene	1700		95.6	190	ug/Kg
86-74-8	Carbazole	1700		91.0	190	ug/Kg
84-74-2	Di-n-butylphthalate	1500		95.5	190	ug/Kg
206-44-0	Fluoranthene	1600		92.6	190	ug/Kg
129-00-0	Pyrene	1400		94.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	1400		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1800		110	370	ug/Kg
56-55-3	Benzo(a)anthracene	1700		91.4	190	ug/Kg
218-01-9	Chrysene	1700		90.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1800		120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		91.9	190	ug/Kg

Raw Data: **BF141845.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	DN-B-42MSD	SDG No.:	Q1488
Lab Sample ID:	Q1487-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
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
BF141845.D	1	03/05/25 09:40	03/05/25 15:51	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1500		93.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	1800		110	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1300		88.5	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1400		92.0	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1100		90.8	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1900		98.4	190	ug/Kg
123-91-1	1,4-Dioxane	1600		120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		84.6	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	109		30 (18) - 130 (112)	72%	SPK: 150
13127-88-3	Phenol-d6	104		30 (15) - 130 (107)	70%	SPK: 150
4165-60-0	Nitrobenzene-d5	89.9		30 (18) - 130 (107)	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.0		30 (20) - 130 (109)	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	117		30 (10) - 130 (116)	78%	SPK: 150
1718-51-0	Terphenyl-d14	56.9		30 (10) - 130 (105)	57%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	191000	6.886			
1146-65-2	Naphthalene-d8	732000	8.169			
15067-26-2	Acenaphthene-d10	367000	9.922			
1517-22-2	Phenanthrene-d10	575000	11.404			
1719-03-5	Chrysene-d12	415000	14.039			
1520-96-3	Perylene-d12	465000	15.509			

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: **BF141845.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141845.D
Acq On : 05 Mar 2025 15:51
Operator : RC/JU
Sample : Q1487-01MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 05 16:12:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	191311	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	731999	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	367233	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	575333	20.000	ng	0.00
76) Chrysene-d12	14.039	240	414755	20.000	ng	-0.01
86) Perylene-d12	15.509	264	465047	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	1301485	108.643	ng	0.00
7) Phenol-d6	6.504	99	1625710	104.263	ng	0.00
23) Nitrobenzene-d5	7.445	82	1029379	89.888	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	402954	116.878	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1718796	75.048	ng	0.00
79) Terphenyl-d14	12.986	244	1459806	56.946	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.710	88	228087	41.961	ng	99
3) Pyridine	3.475	79	547422	40.476	ng	98
4) n-Nitrosodimethylamine	3.416	42	283179	43.516	ng	97
6) Aniline	6.545	93	629942	38.861	ng	100
8) 2-Chlorophenol	6.669	128	575056	44.375	ng	96
9) Benzaldehyde	6.434	77	206651	22.785	ng	98
10) Phenol	6.522	94	741516	44.504	ng	97
11) bis(2-Chloroethyl)ether	6.622	93	531330	41.835	ng	97
12) 1,3-Dichlorobenzene	6.828	146	603684	43.499	ng	99
13) 1,4-Dichlorobenzene	6.904	146	616390	44.080	ng	99
14) 1,2-Dichlorobenzene	7.057	146	583334	44.674	ng	98
15) Benzyl Alcohol	7.022	79	497324	39.909	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.157	45	733553	38.031	ng	99
17) 2-Methylphenol	7.128	107	454751	42.513	ng	100
18) Hexachloroethane	7.398	117	224314	42.859	ng	99
19) n-Nitroso-di-n-propyla...	7.292	70	390439	38.092	ng	99
20) 3+4-Methylphenols	7.281	107	581786	43.679	ng	97
22) Acetophenone	7.292	105	842821	47.275	ng	98
24) Nitrobenzene	7.463	77	598766	48.826	ng	99
25) Isophorone	7.704	82	1045129	42.481	ng	99
26) 2-Nitrophenol	7.781	139	281708	51.099	ng	99
27) 2,4-Dimethylphenol	7.810	122	484864	53.613	ng	99
28) bis(2-Chloroethoxy)met...	7.910	93	621875	39.625	ng	99
29) 2,4-Dichlorophenol	8.016	162	452566	43.378	ng	99
30) 1,2,4-Trichlorobenzene	8.104	180	495020	43.300	ng	98
31) Naphthalene	8.186	128	1597999	42.475	ng	99
32) Benzoic acid	7.910	122	356667m	47.372	ng	
33) 4-Chloroaniline	8.233	127	347428	25.186	ng	98
34) Hexachlorobutadiene	8.304	225	307767	43.322	ng	98
35) Caprolactam	8.592	113	165656	51.613	ng	97
36) 4-Chloro-3-methylphenol	8.704	107	485311	41.874	ng	99
37) 2-Methylnaphthalene	8.880	142	980751	39.744	ng	99
38) 1-Methylnaphthalene	8.975	142	970185	40.974	ng	99
40) 1,2,4,5-Tetrachloroben...	9.045	216	524773	49.478	ng	99
41) Hexachlorocyclopentadiene	9.033	237	568656	128.474	ng	100
43) 2,4,6-Trichlorophenol	9.151	196	320323	46.755	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141845.D
Acq On : 05 Mar 2025 15:51
Operator : RC/JU
Sample : Q1487-01MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 05 16:12:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	326554	48.135	ng		99
46) 1,1'-Biphenyl	9.339	154	1381301	49.416	ng		99
47) 2-Chloronaphthalene	9.369	162	939307	45.529	ng		98
48) 2-Nitroaniline	9.457	65	301849	52.958	ng		97
49) Acenaphthylene	9.780	152	1444944	46.713	ng		100
50) Dimethylphthalate	9.639	163	1069323	43.481	ng		99
51) 2,6-Dinitrotoluene	9.698	165	235755	49.987	ng		96
52) Acenaphthene	9.957	154	980429	46.974	ng		99
53) 3-Nitroaniline	9.869	138	179159	36.508	ng	#	94
54) 2,4-Dinitrophenol	9.969	184	153518	73.318	ng	#	18
55) Dibenzofuran	10.127	168	1289752	42.456	ng		98
56) 4-Nitrophenol	10.016	139	414529	114.125	ng		99
57) 2,4-Dinitrotoluene	10.104	165	323093	55.621	ng		91
58) Fluorene	10.469	166	986733	43.363	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	269777	45.723	ng		98
60) Diethylphthalate	10.339	149	1010574	40.990	ng		100
61) 4-Chlorophenyl-phenyle...	10.463	204	482285	42.302	ng		99
62) 4-Nitroaniline	10.480	138	222496	52.977	ng		96
63) Azobenzene	10.622	77	1103992	42.529	ng		95
65) 4,6-Dinitro-2-methylph...	10.510	198	112278	42.552	ng		92
66) n-Nitrosodiphenylamine	10.574	169	874306	46.279	ng		100
67) 4-Bromophenyl-phenylether	10.951	248	299369	44.548	ng		97
68) Hexachlorobenzene	11.016	284	318600	44.897	ng		99
69) Atrazine	11.104	200	327584	63.055	ng		98
70) Pentachlorophenol	11.204	266	378895	84.186	ng		99
71) Phenanthrene	11.427	178	1401406	45.538	ng		99
72) Anthracene	11.480	178	1410204	45.722	ng		99
73) Carbazole	11.633	167	1207332	44.327	ng		99
74) Di-n-butylphthalate	11.963	149	1415465	40.999	ng		100
75) Fluoranthene	12.616	202	1296948	41.129	ng		98
77) Benzidine	12.733	184	567942	108.795	ng		99
78) Pyrene	12.845	202	1302790	36.274	ng		99
80) Butylbenzylphthalate	13.463	149	493506	37.820	ng		98
81) Benzo(a)anthracene	14.033	228	1246967	45.518	ng		100
82) 3,3'-Dichlorobenzidine	13.992	252	378006	48.093	ng		100
83) Chrysene	14.068	228	1103430	43.694	ng		99
84) Bis(2-ethylhexyl)phtha...	14.021	149	628755	38.698	ng		100
85) Di-n-octyl phthalate	14.633	149	1135656	46.687	ng		98
87) Indeno(1,2,3-cd)pyrene	16.992	276	1039862	35.115	ng		98
88) Benzo(b)fluoranthene	15.080	252	1433060	45.239	ng		99
89) Benzo(k)fluoranthene	15.109	252	1063202	39.488	ng		99
90) Benzo(a)pyrene	15.451	252	1186012	46.684	ng		99
91) Dibenzo(a,h)anthracene	17.015	278	871243	36.044	ng		98
92) Benzo(g,h,i)perylene	17.445	276	735371	29.696	ng		98

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

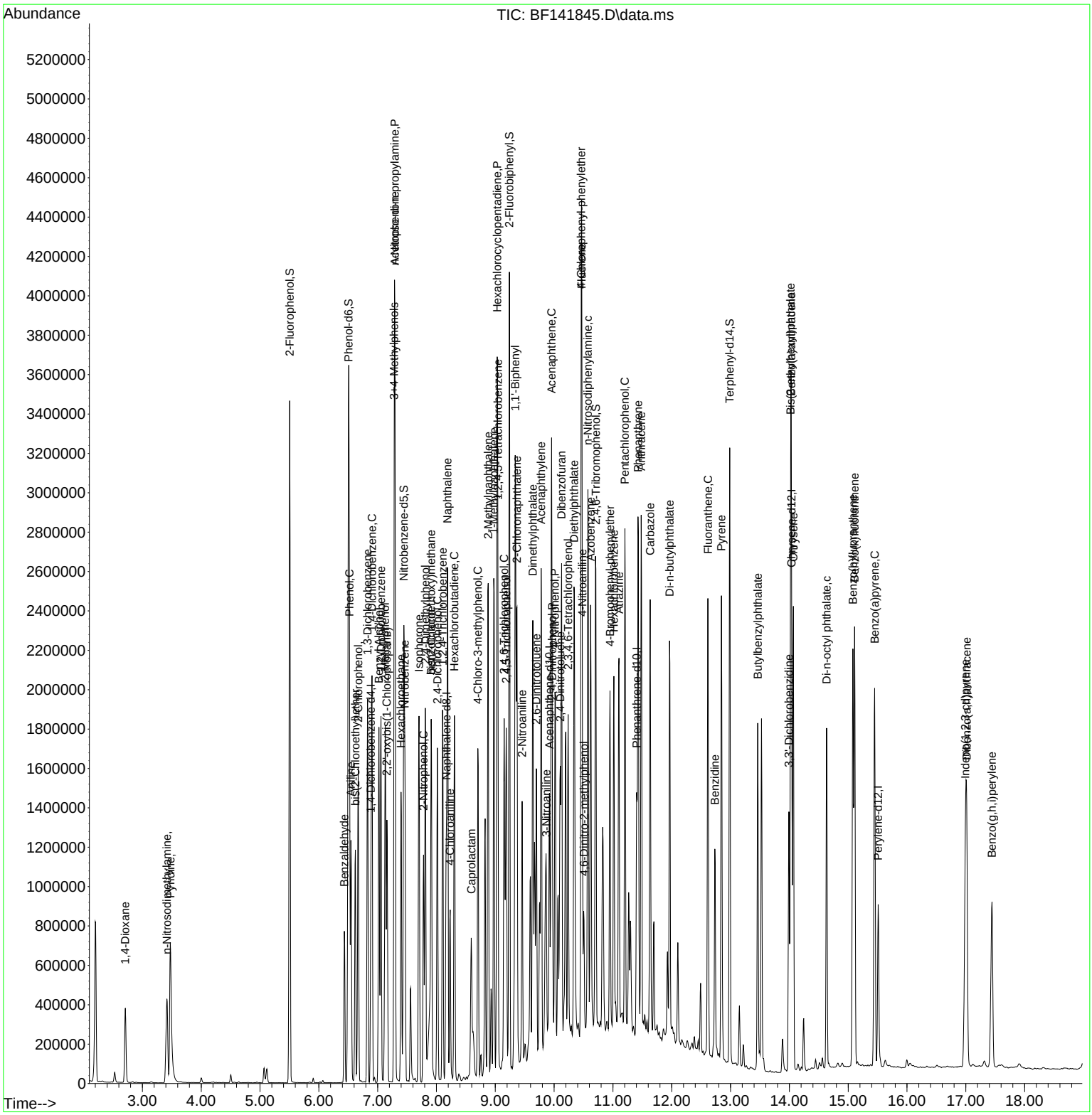
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141845.D
Acq On : 05 Mar 2025 15:51
Operator : RC/JU
Sample : Q1487-01MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

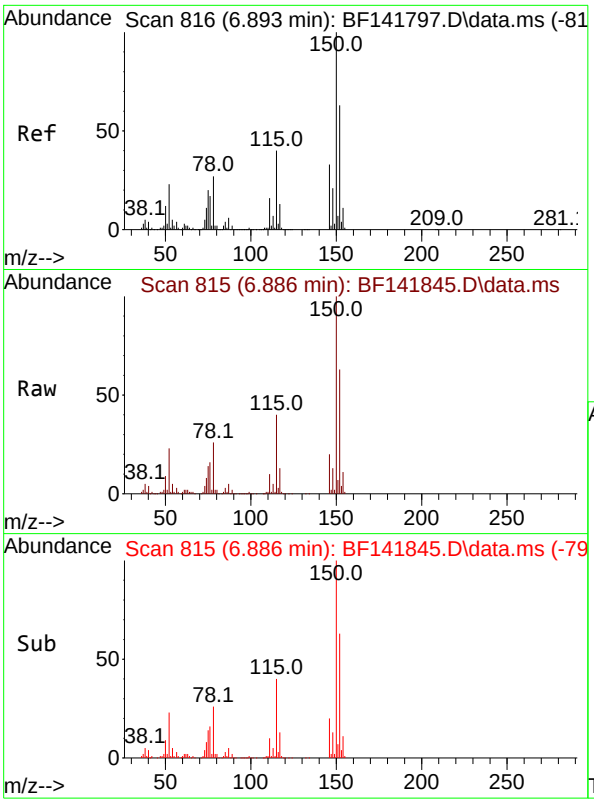
Quant Time: Mar 05 16:12:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

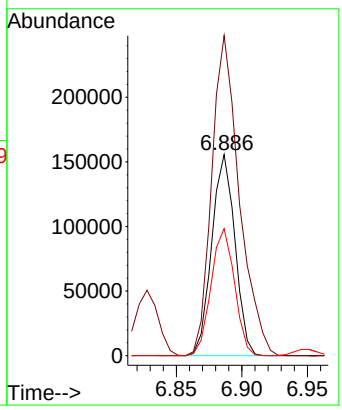




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 8
Delta R.T. -0.007 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:152 Resp: 19131

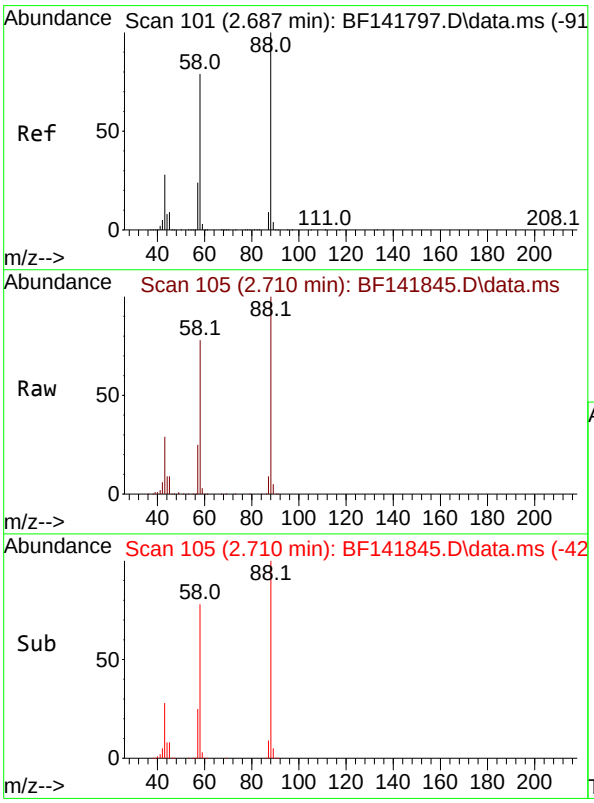
Ion	Ratio	Lower	Upper
152	100		
150	159.1	127.5	191.3
115	63.2	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

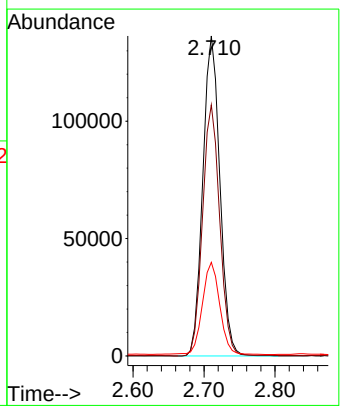
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

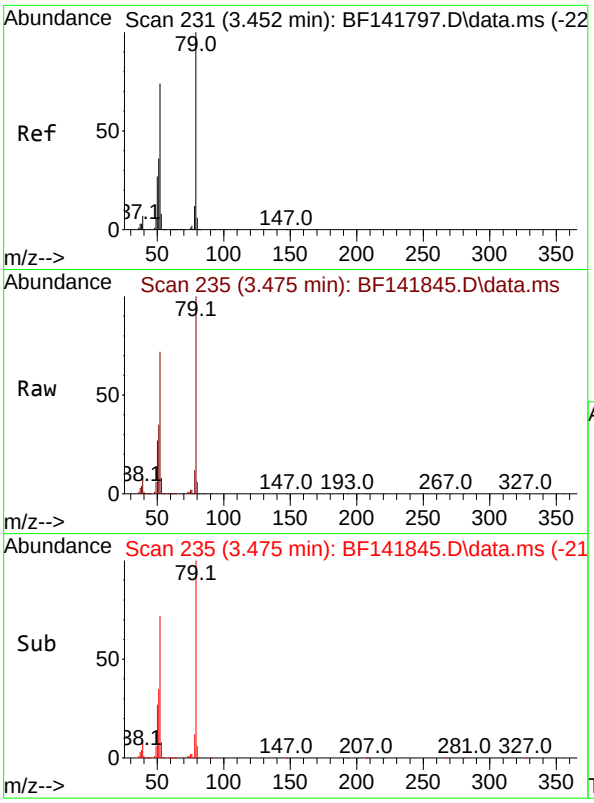


#2
1,4-Dioxane
Concen: 41.961 ng
RT: 2.710 min Scan# 105
Delta R.T. 0.023 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 88 Resp: 228087

Ion	Ratio	Lower	Upper
88	100		
58	78.8	63.9	95.9
43	29.3	23.0	34.6

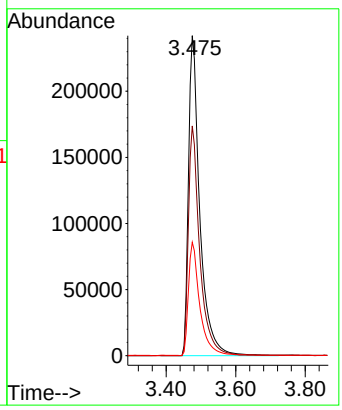




#3
Pyridine
Concen: 40.476 ng
RT: 3.475 min Scan# 2
Delta R.T. 0.023 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 79 Resp: 54742

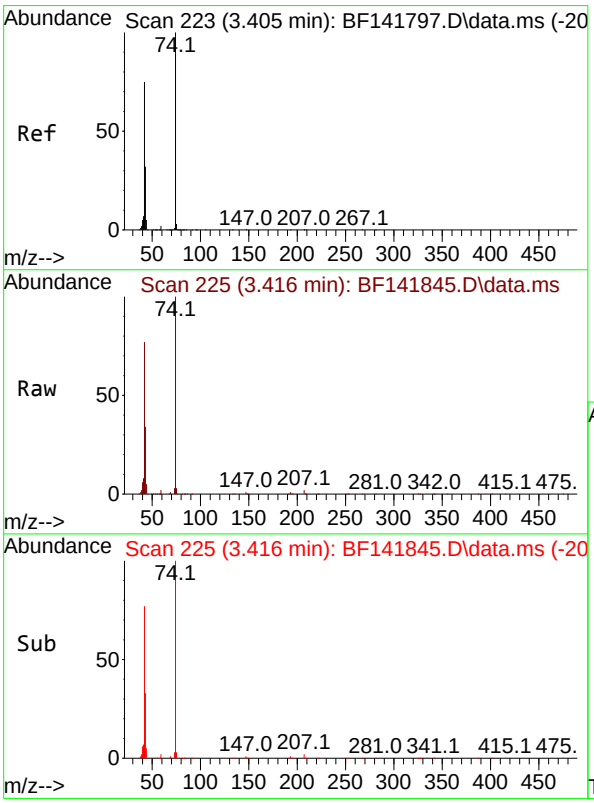
Ion	Ratio	Lower	Upper
79	100		
52	71.8	59.0	88.4
51	35.5	29.0	43.4



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

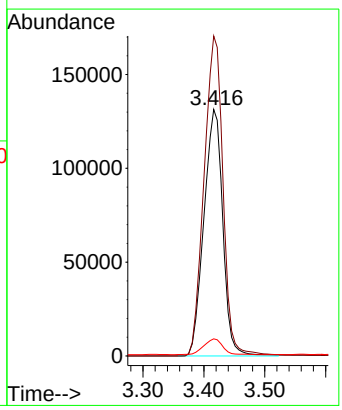
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

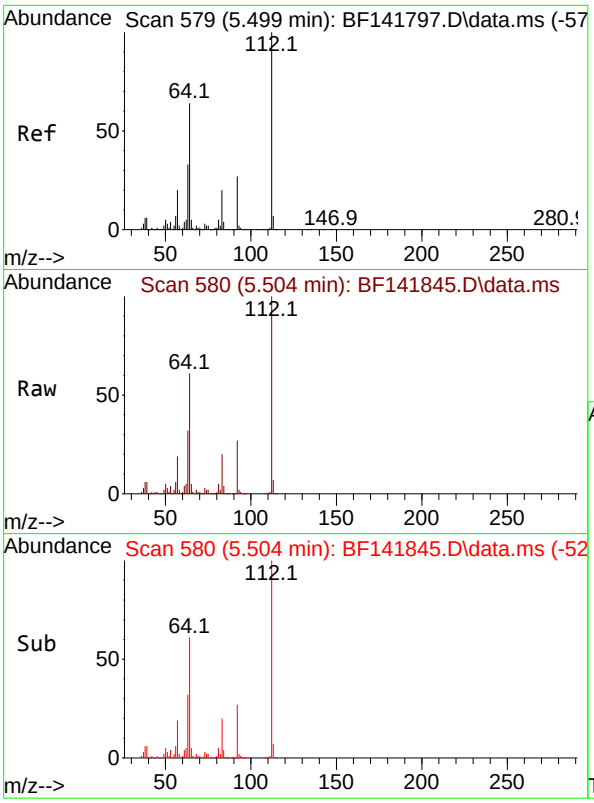


#4
n-Nitrosodimethylamine
Concen: 43.516 ng
RT: 3.416 min Scan# 225
Delta R.T. 0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 42 Resp: 283179

Ion	Ratio	Lower	Upper
42	100		
74	129.8	107.1	160.7
44	6.9	6.6	9.8

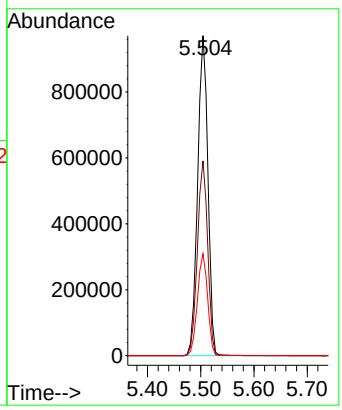




#5
2-Fluorophenol
Concen: 108.643 ng
RT: 5.504 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:112 Resp: 130148

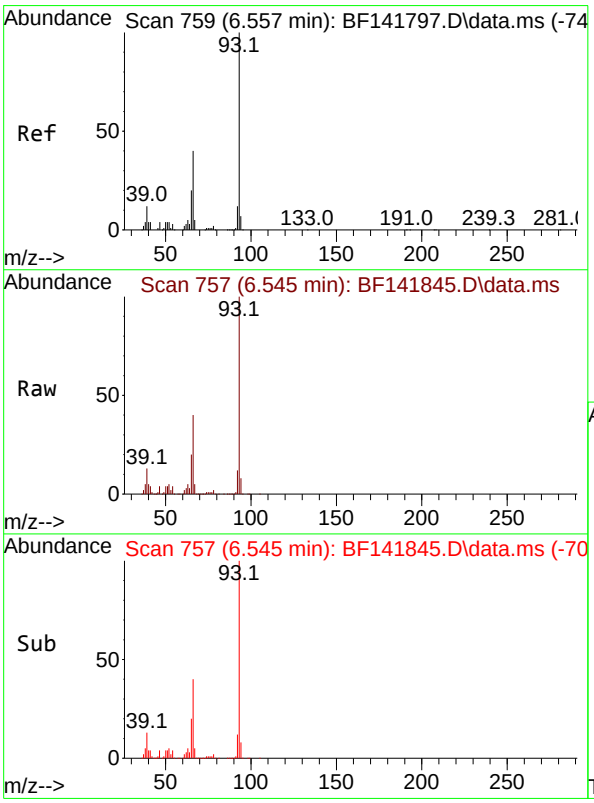
Ion	Ratio	Lower	Upper
112	100		
64	60.9	51.3	76.9
63	31.8	26.2	39.4



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

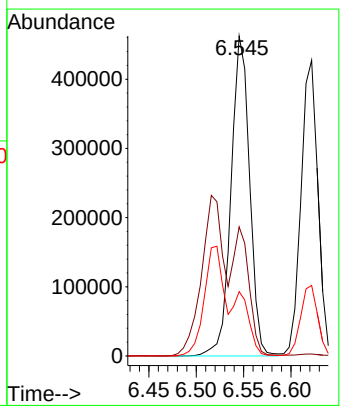
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

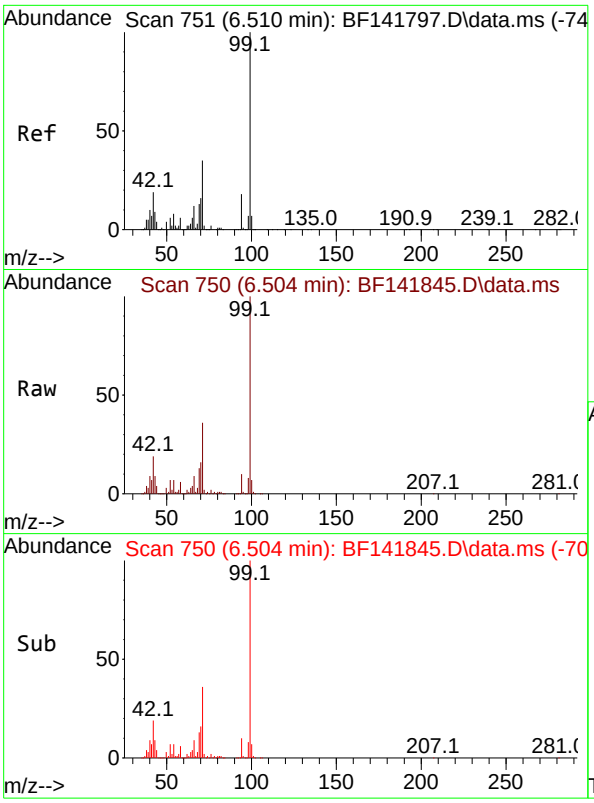


#6
Aniline
Concen: 38.861 ng
RT: 6.545 min Scan# 757
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 93 Resp: 629942

Ion	Ratio	Lower	Upper
93	100		
66	40.4	32.3	48.5
65	20.1	15.9	23.9

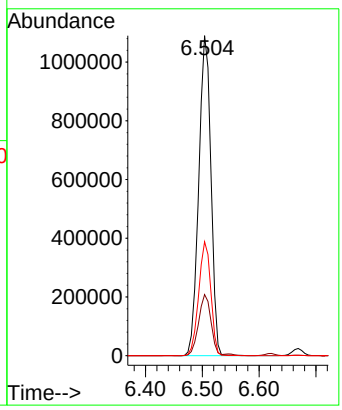




#7
Phenol-d6
Concen: 104.263 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 99 Resp: 162571

Ion	Ratio	Lower	Upper
99	100		
42	19.1	15.2	22.8
71	35.6	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
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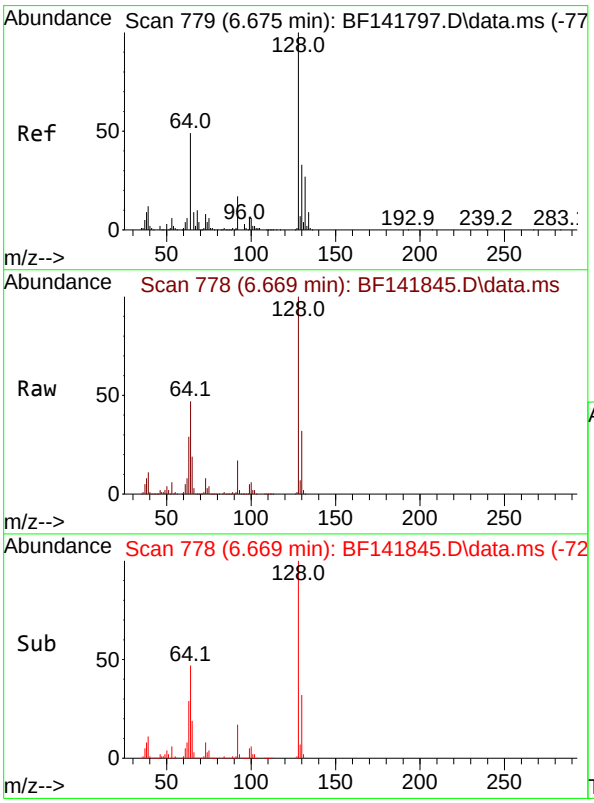
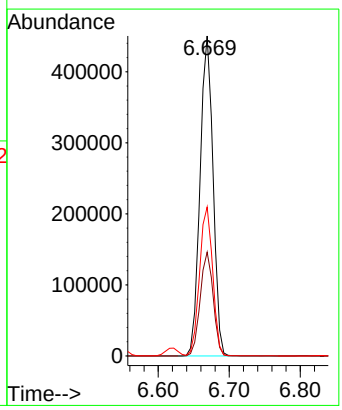
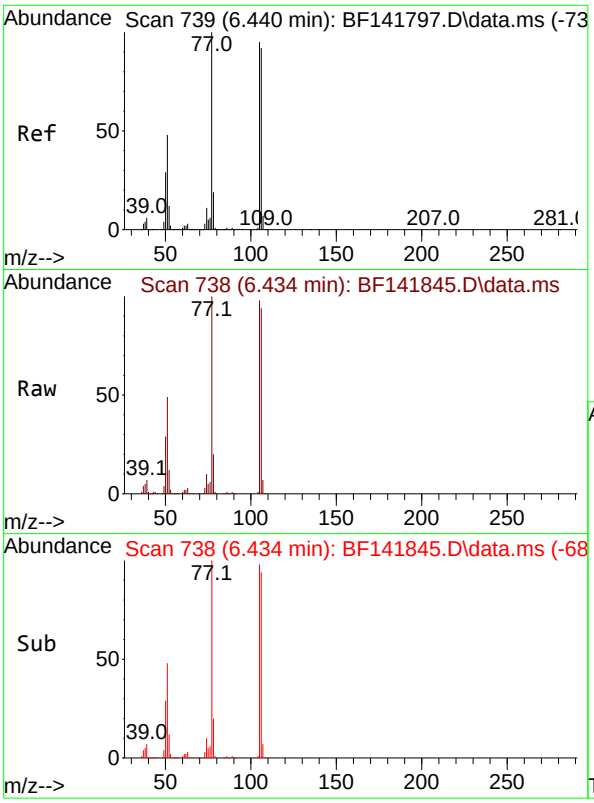


#8
2-Chlorophenol
Concen: 44.375 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:128 Resp: 575056

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.6	52.6
64	46.5	31.1	71.1

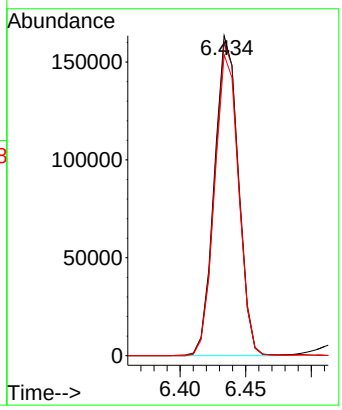




#9
Benzaldehyde
Concen: 22.785 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 77 Resp: 20665

Ion	Ratio	Lower	Upper
77	100		
105	97.8	75.3	115.3
106	94.0	72.3	112.3



Instrument :
BNA_F
ClientSampleId :
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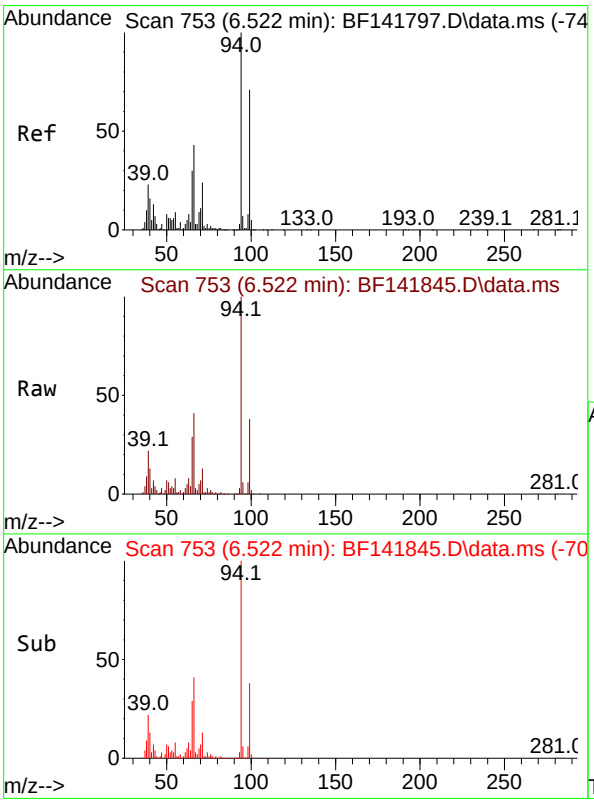
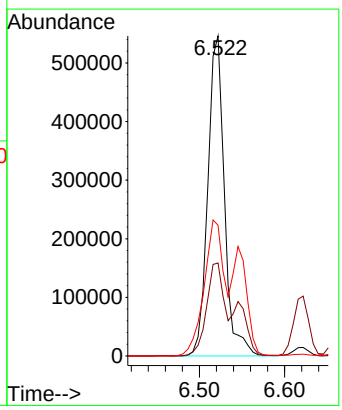
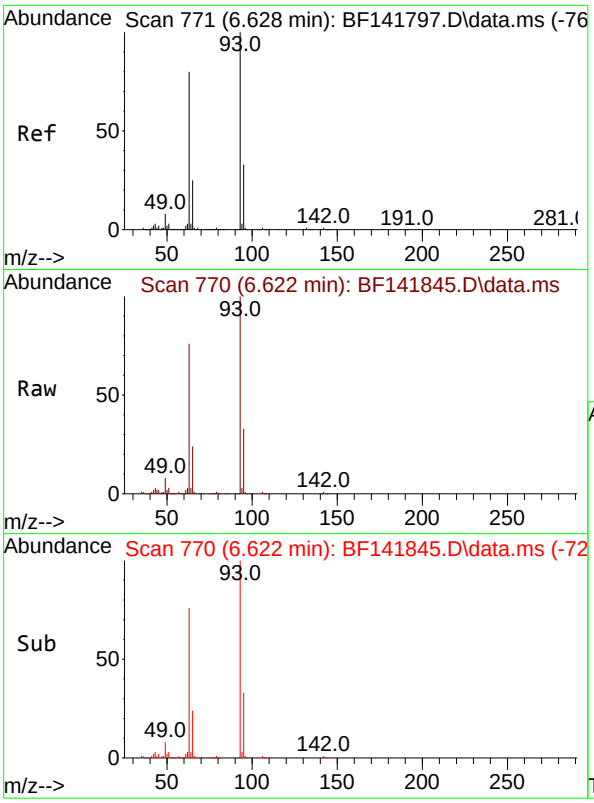


#10
Phenol
Concen: 44.504 ng
RT: 6.522 min Scan# 753
Delta R.T. -0.000 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 94 Resp: 741516

Ion	Ratio	Lower	Upper
94	100		
65	29.1	10.2	50.2
66	40.8	23.2	63.2

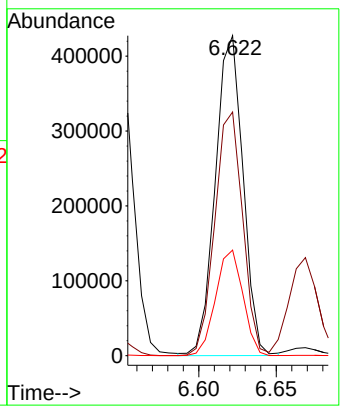




#11
bis(2-Chloroethyl)ether
Concen: 41.835 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 93 Resp: 53133

Ion	Ratio	Lower	Upper
93	100		
63	76.2	59.3	99.3
95	33.0	13.2	53.2



Instrument :
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ClientSampleId :
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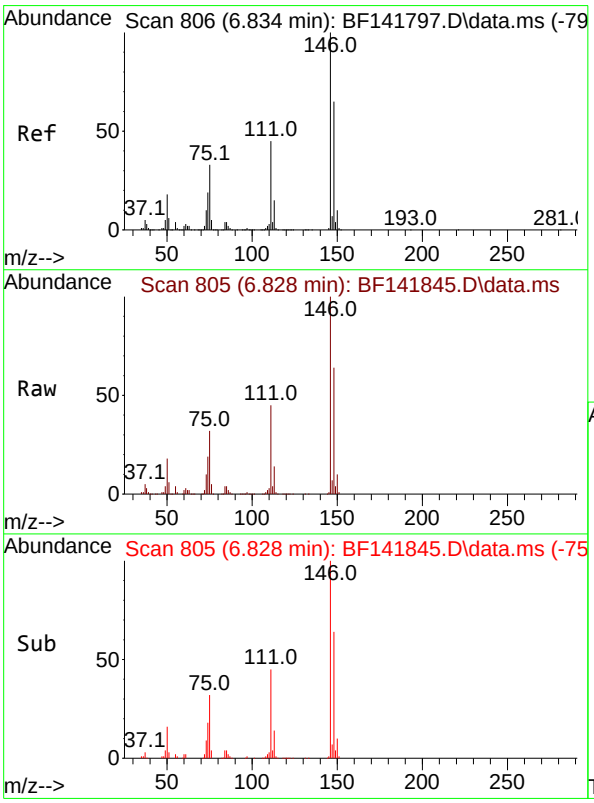
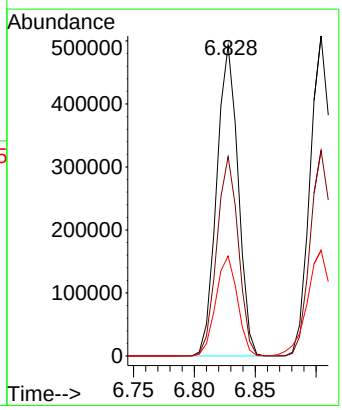
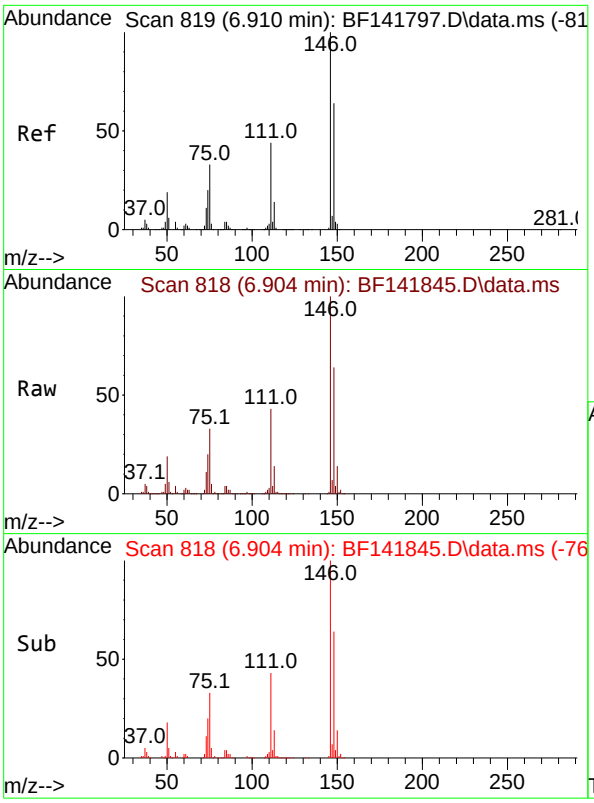


#12
1,3-Dichlorobenzene
Concen: 43.499 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:146 Resp: 603684

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.8	77.6
75	32.2	26.2	39.4

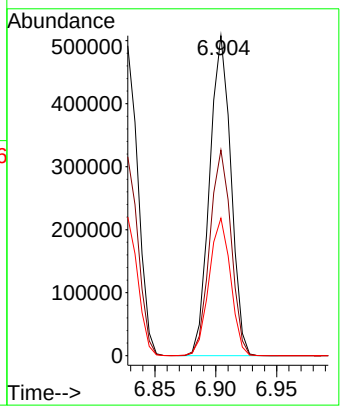




#13
1,4-Dichlorobenzene
Concen: 44.080 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:146 Resp: 61639

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.4	77.2
111	43.0	35.5	53.3



Instrument :
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ClientSampleId :
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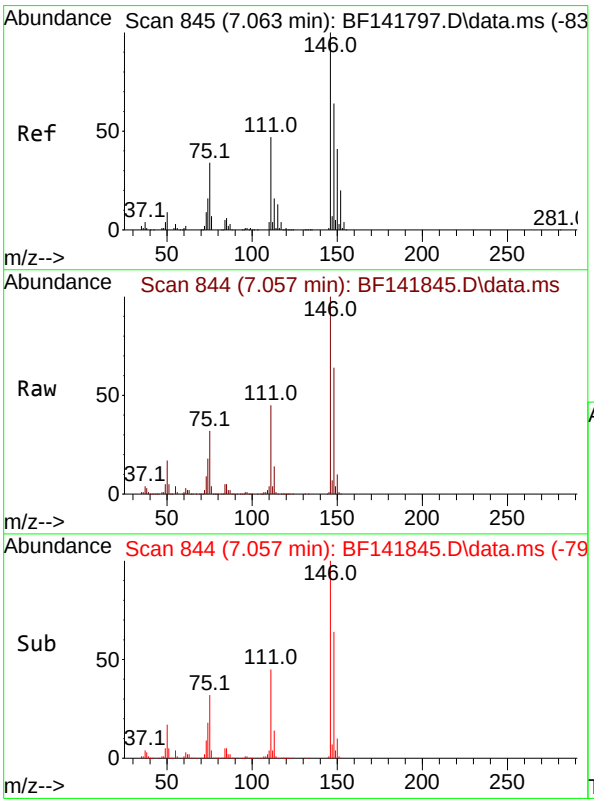
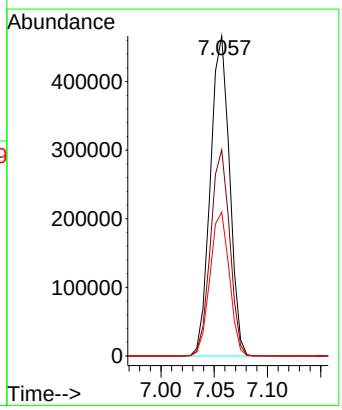
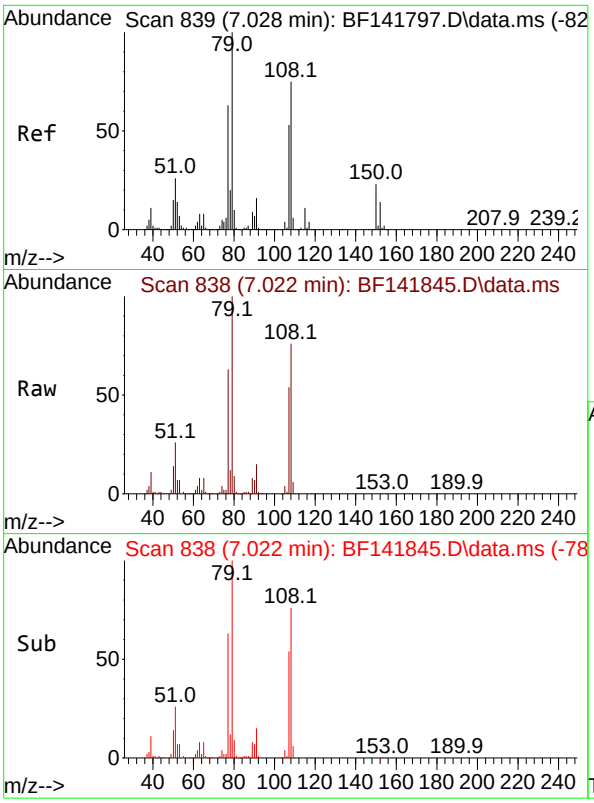


#14
1,2-Dichlorobenzene
Concen: 44.674 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:146 Resp: 583334

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.2	76.8
111	44.9	37.8	56.6

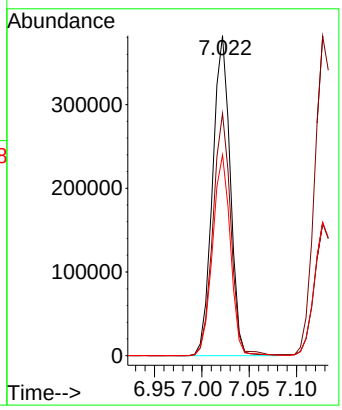




#15
Benzyl Alcohol
Concen: 39.909 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 79 Resp: 49732

Ion	Ratio	Lower	Upper
79	100		
108	75.7	60.2	90.2
77	62.7	50.2	75.2



Instrument :
BNA_F
ClientSampleId :
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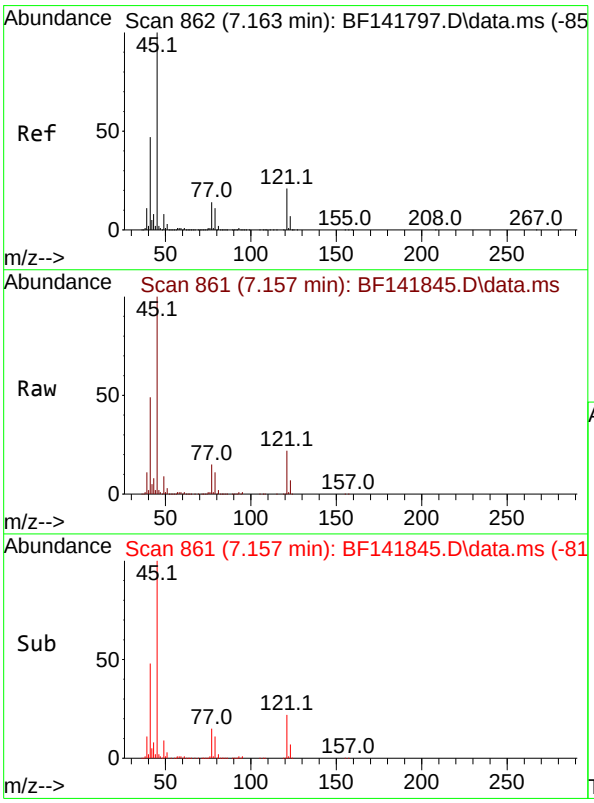
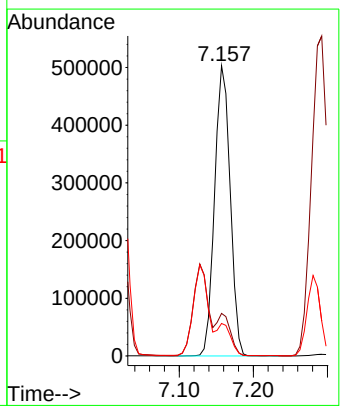
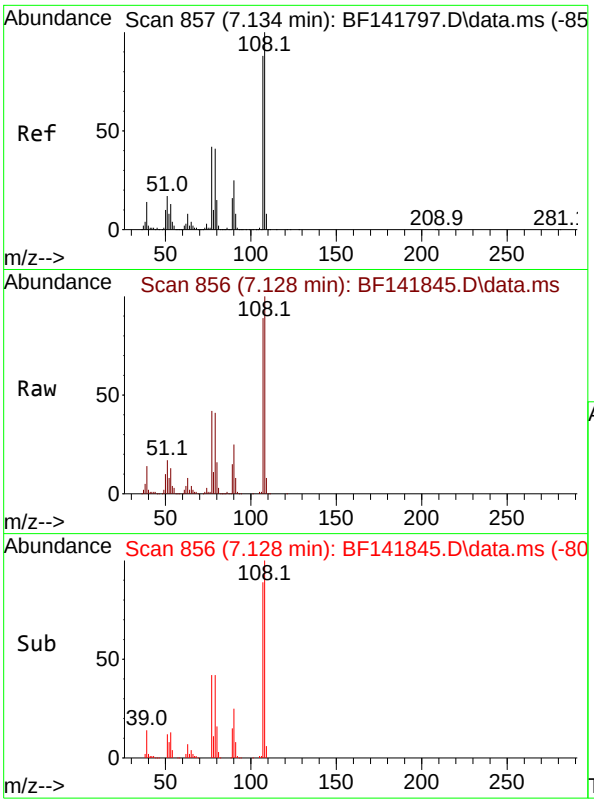


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.031 ng
RT: 7.157 min Scan# 861
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 45 Resp: 733553

Ion	Ratio	Lower	Upper
45	100		
77	14.7	0.0	34.4
79	11.2	0.0	30.9

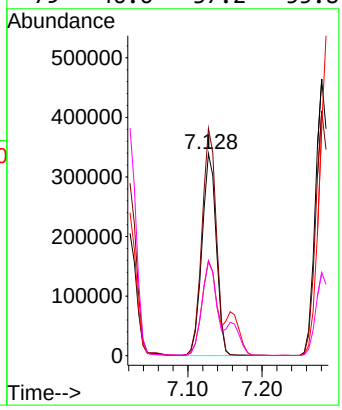




#17
2-Methylphenol
Concen: 42.513 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:107 Resp: 45475

Ion	Ratio	Lower	Upper
107	100		
108	112.5	90.6	135.8
77	47.0	37.7	56.5
79	46.6	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
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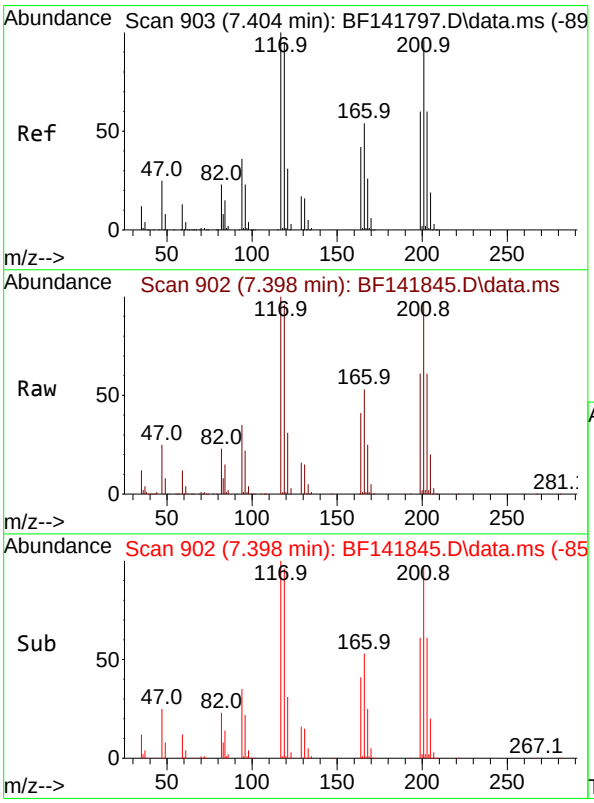
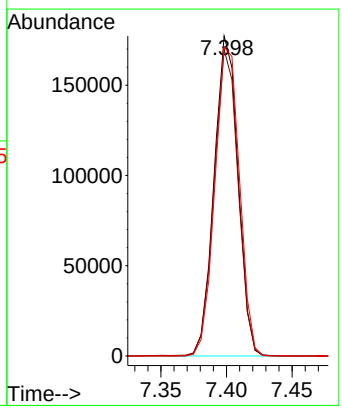
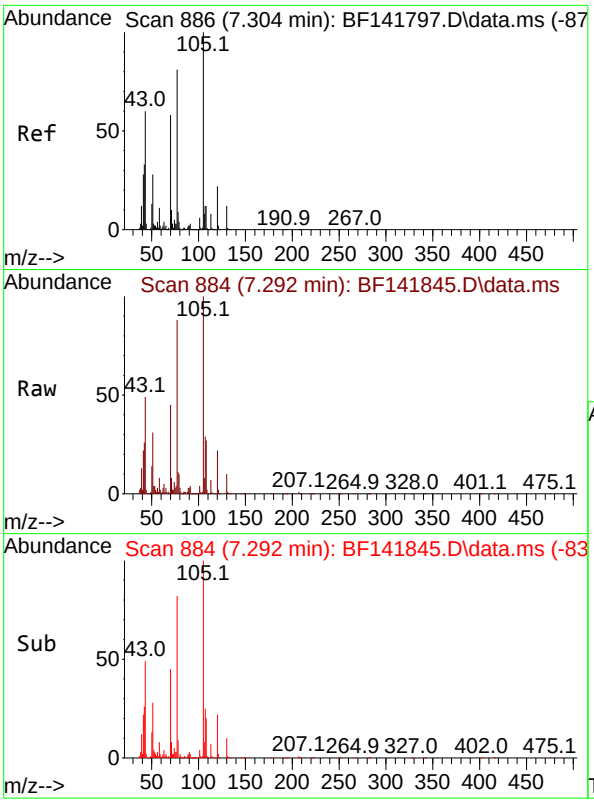


#18
Hexachloroethane
Concen: 42.859 ng
RT: 7.398 min Scan# 902
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:117 Resp: 224314

Ion	Ratio	Lower	Upper
117	100		
119	95.8	75.8	113.8
201	96.6	76.7	115.1

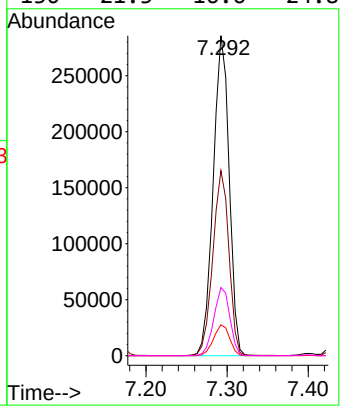




#19
n-Nitroso-di-n-propylamine
Concen: 38.092 ng
RT: 7.292 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 70 Resp: 39043

Ion	Ratio	Lower	Upper
70	100		
42	57.8	45.4	68.0
101	9.7	7.8	11.8
130	21.3	16.6	24.8



Instrument :
BNA_F
ClientSampleId :
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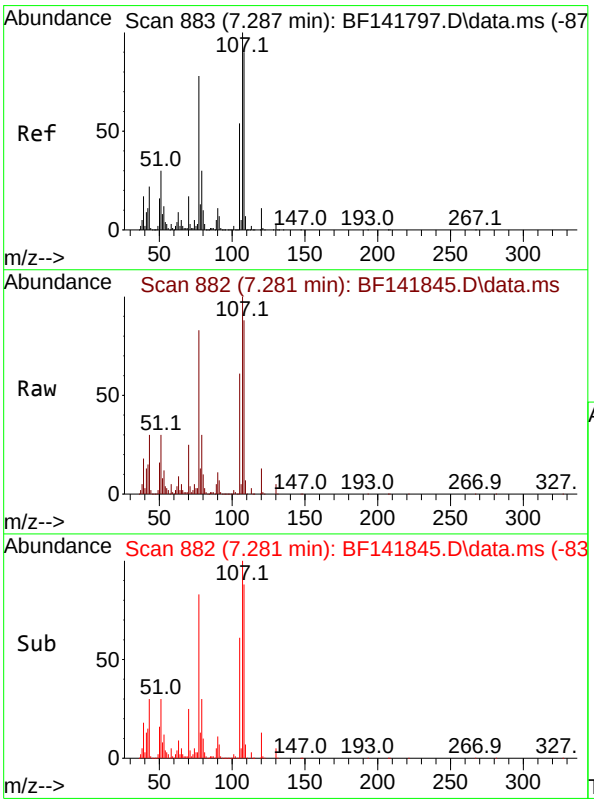
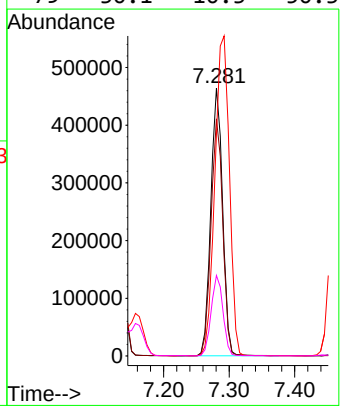
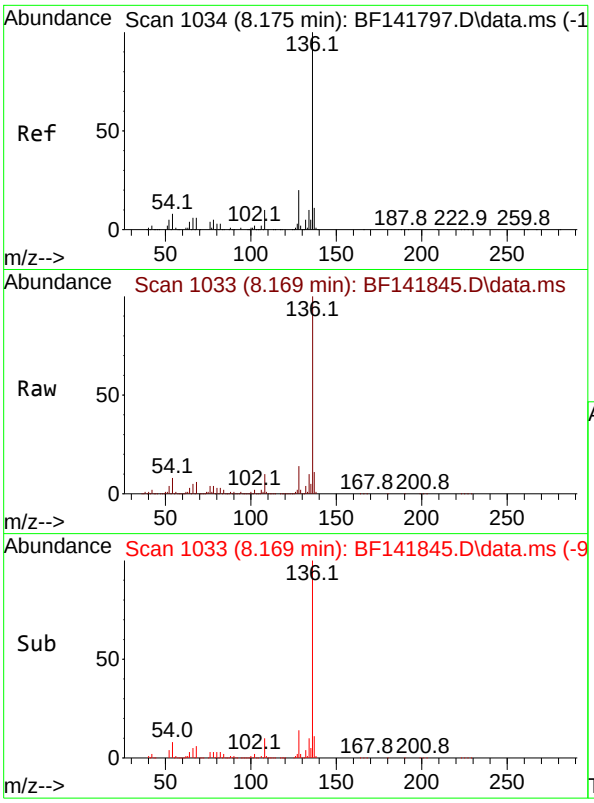


#20
3+4-Methylphenols
Concen: 43.679 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:107 Resp: 581786

Ion	Ratio	Lower	Upper
107	100		
108	88.5	69.7	109.7
77	82.7	58.3	98.3
79	30.1	10.3	50.3

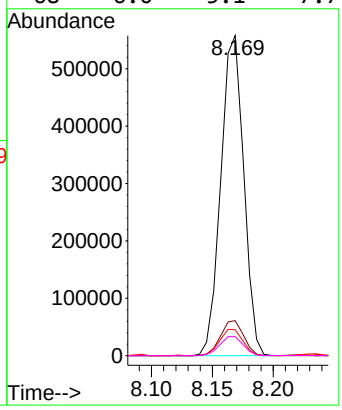




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:136 Resp: 731999

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	8.1	6.9	10.3
68	6.0	5.1	7.7



Instrument :
BNA_F
ClientSampleId :
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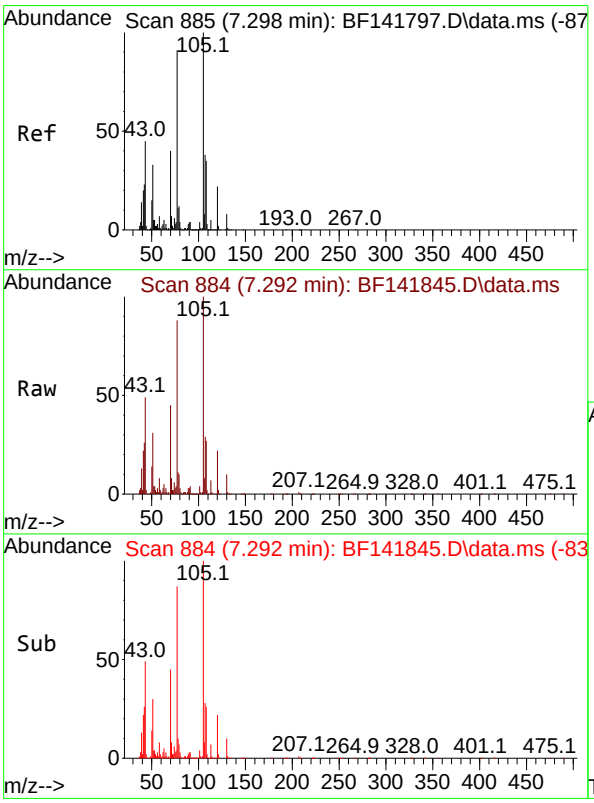
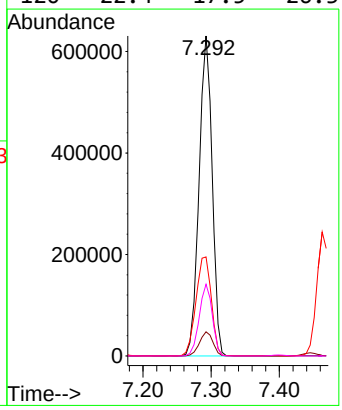
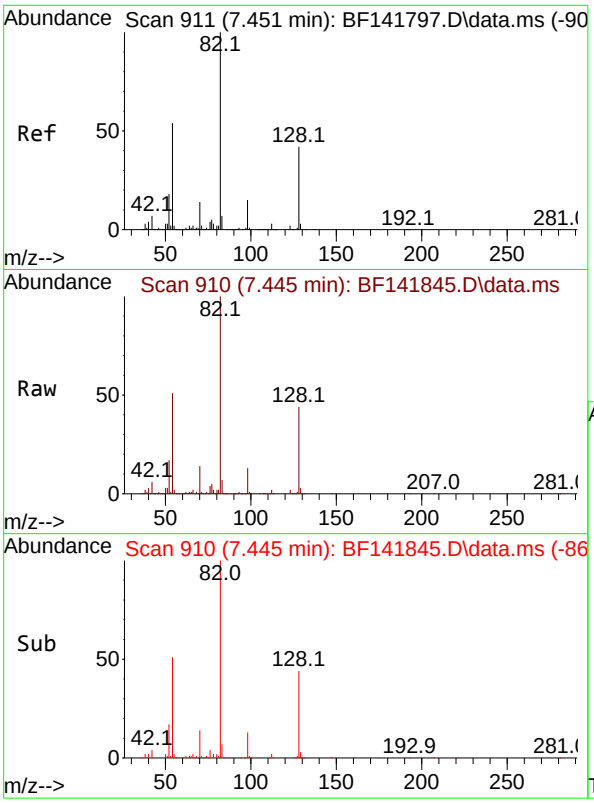


#22
Acetophenone
Concen: 47.275 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:105 Resp: 842821

Ion	Ratio	Lower	Upper
105	100		
71	7.6	5.4	8.0
51	31.0	26.1	39.1
120	22.4	17.5	26.3

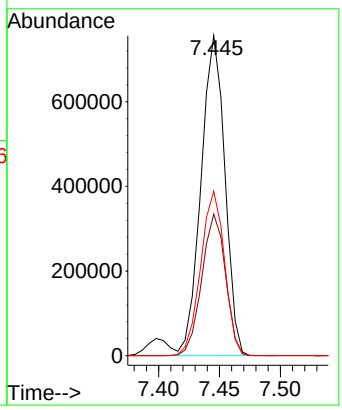




#23
Nitrobenzene-d5
Concen: 89.888 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 82 Resp: 102937

Ion	Ratio	Lower	Upper
82	100		
128	44.3	33.5	50.3
54	51.4	42.7	64.1



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

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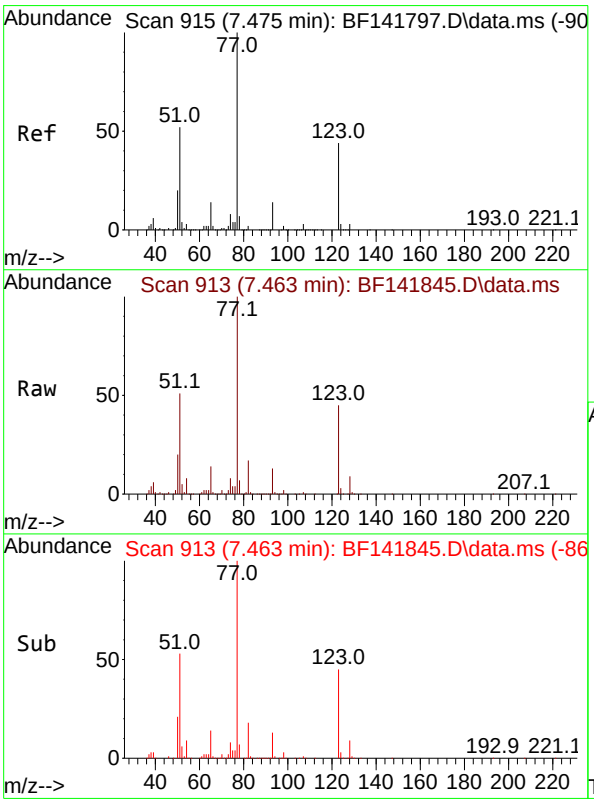
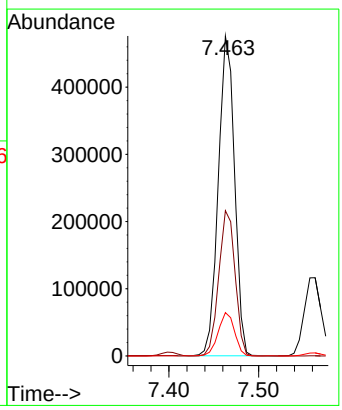
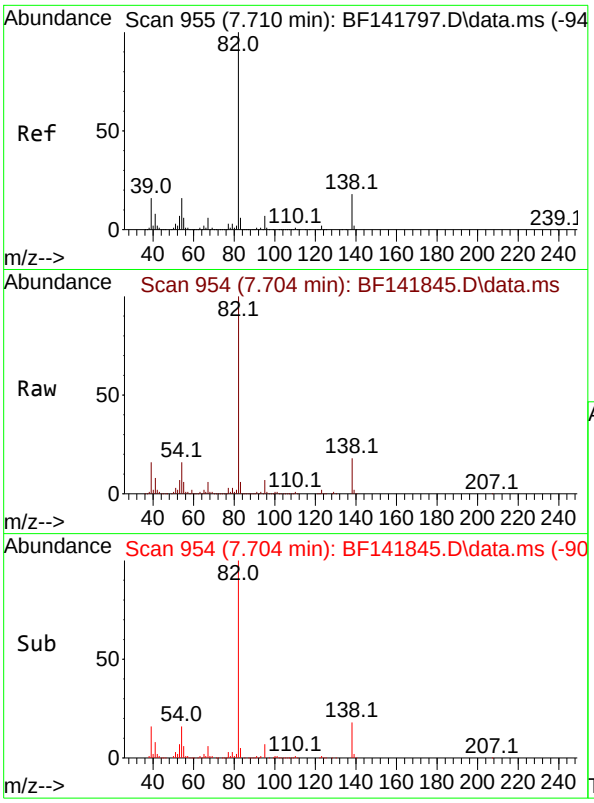


#24
Nitrobenzene
Concen: 48.826 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 77 Resp: 598766

Ion	Ratio	Lower	Upper
77	100		
123	45.4	35.8	53.8
65	13.5	11.2	16.8

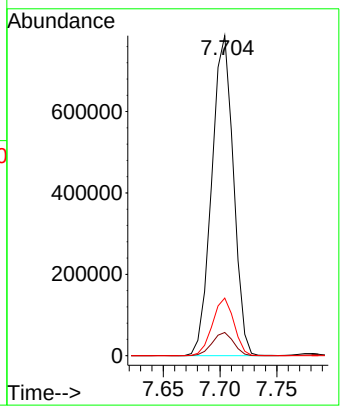




#25
Isophorone
Concen: 42.481 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 82 Resp: 104512

Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.8
138	18.0	14.0	21.0



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

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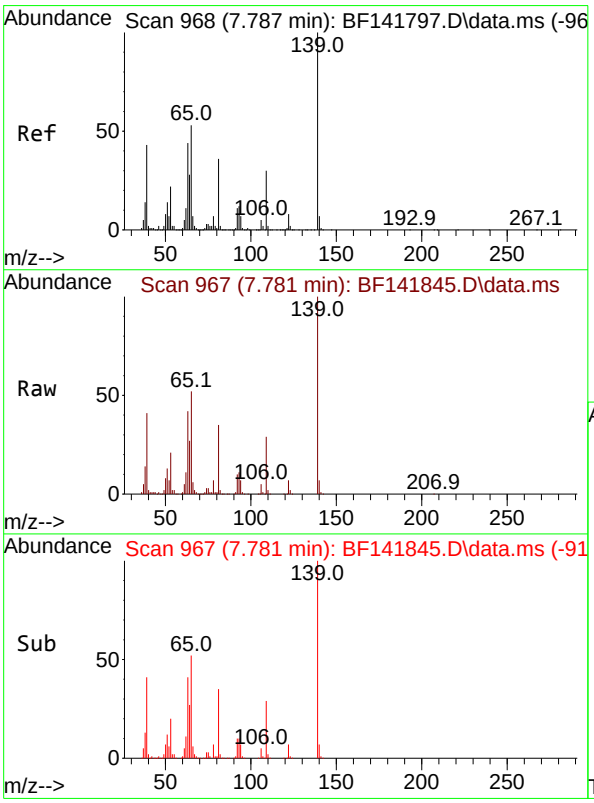
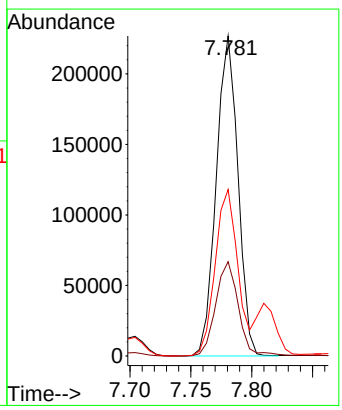
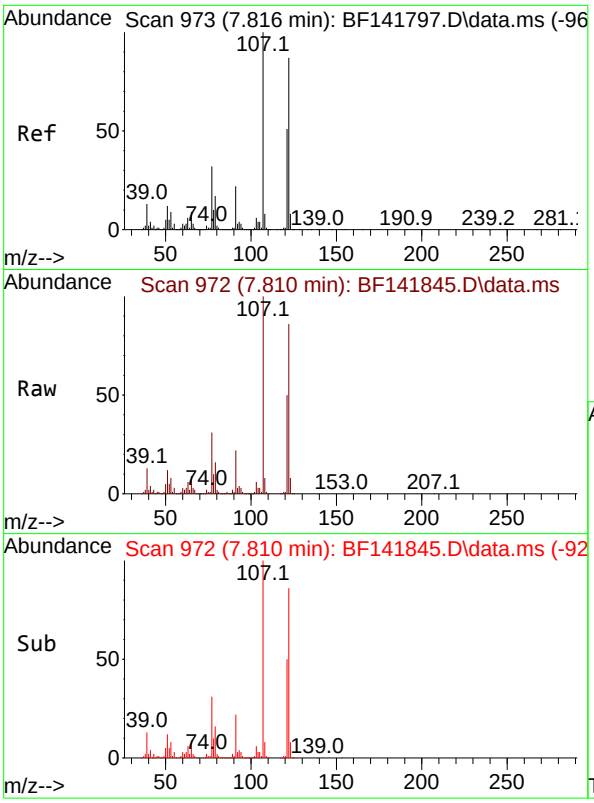


#26
2-Nitrophenol
Concen: 51.099 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:139 Resp: 281708

Ion	Ratio	Lower	Upper
139	100		
109	29.4	24.1	36.1
65	52.0	42.3	63.5

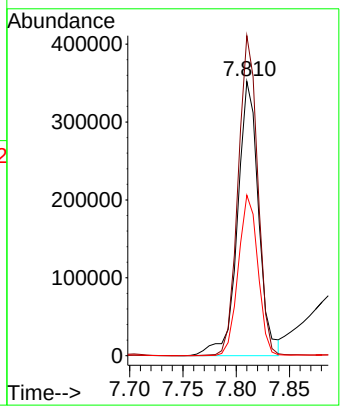




#27
2,4-Dimethylphenol
Concen: 53.613 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:122 Resp: 48486

Ion	Ratio	Lower	Upper
122	100		
107	116.7	92.5	138.7
121	58.5	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
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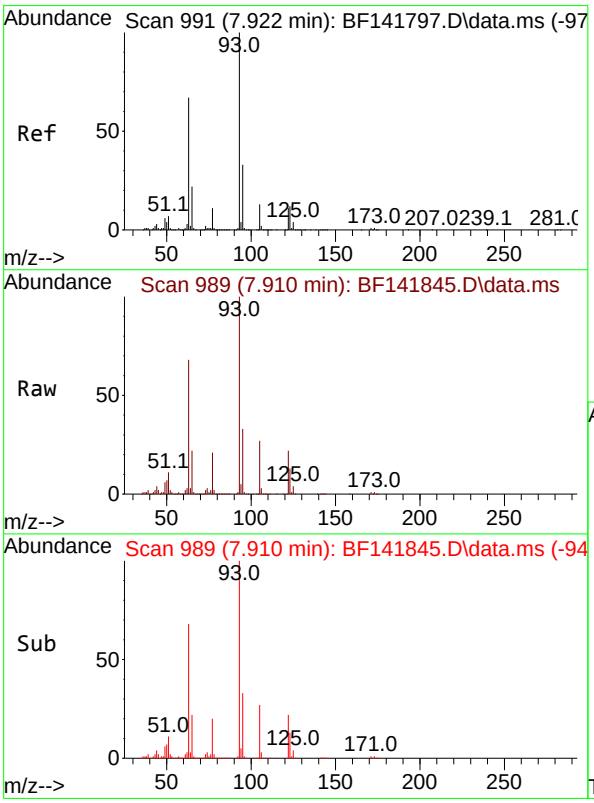
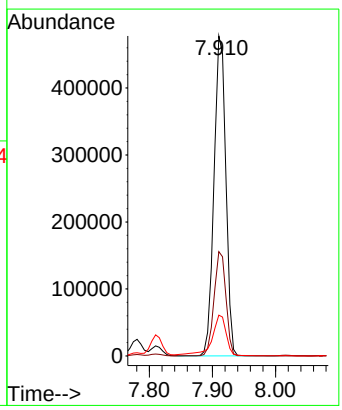
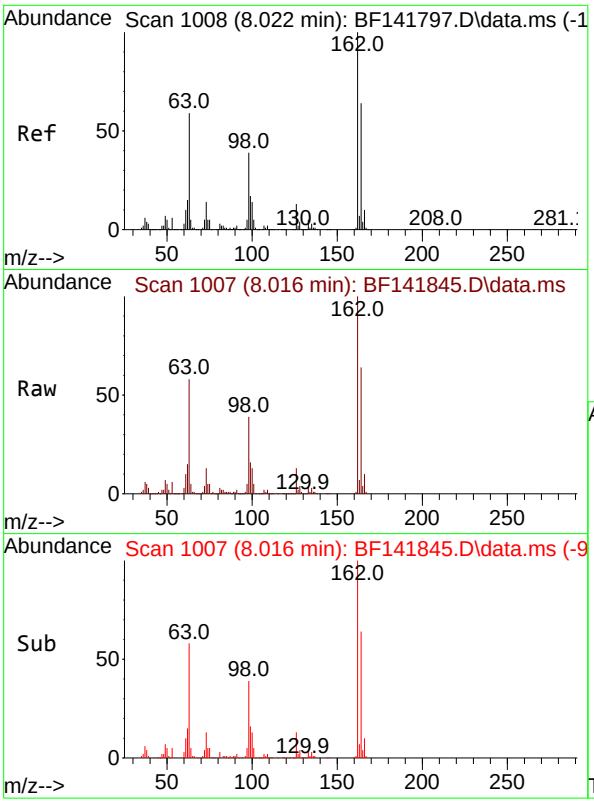


#28
bis(2-Chloroethoxy)methane
Concen: 39.625 ng
RT: 7.910 min Scan# 989
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 93 Resp: 621875

Ion	Ratio	Lower	Upper
93	100		
95	32.6	26.5	39.7
123	12.8	10.0	15.0

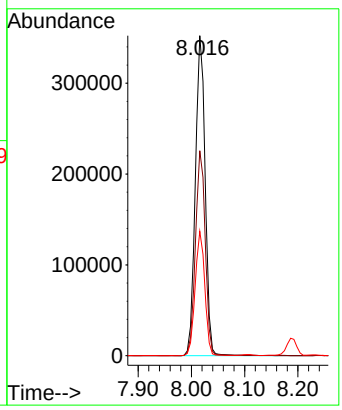




#29
2,4-Dichlorophenol
Concen: 43.378 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:162 Resp: 45256

Ion	Ratio	Lower	Upper
162	100		
164	64.0	44.3	84.3
98	38.9	19.6	59.6



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

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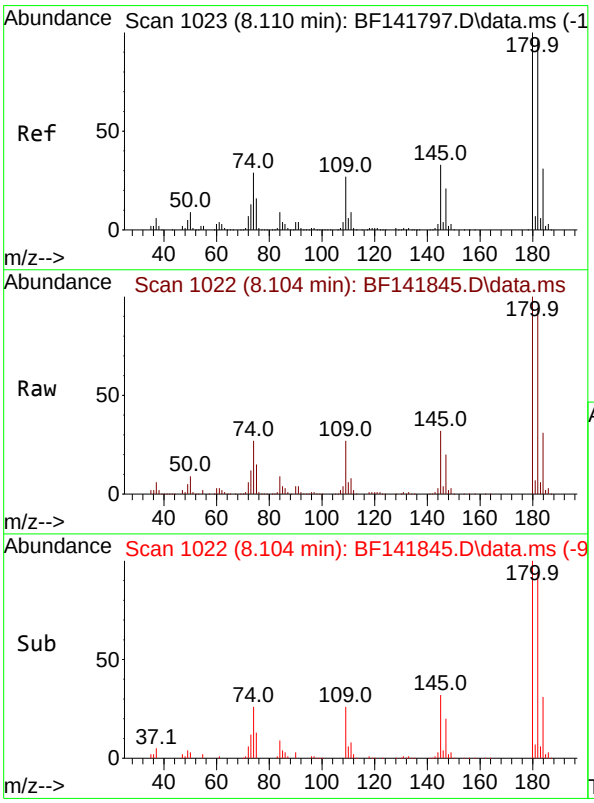
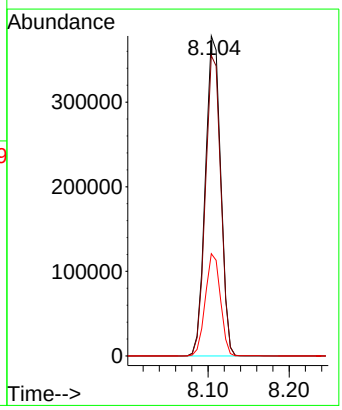
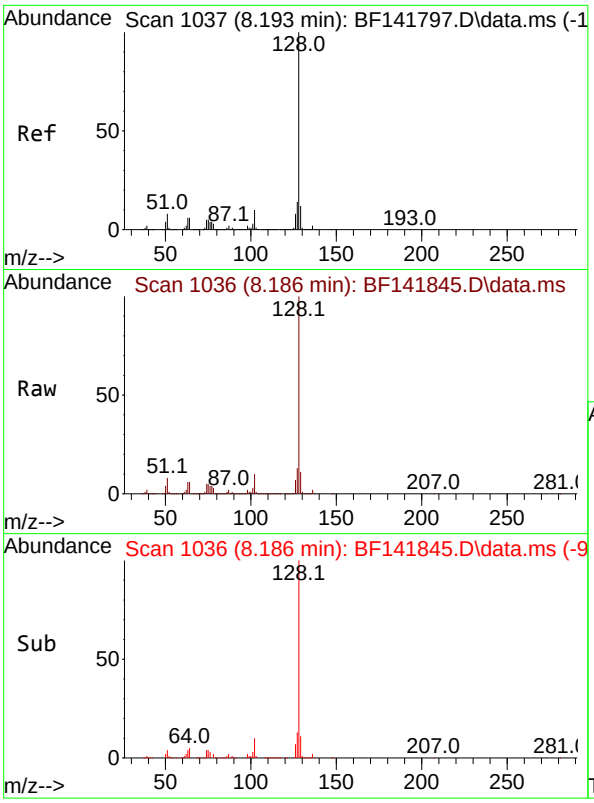


#30
1,2,4-Trichlorobenzene
Concen: 43.300 ng
RT: 8.104 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:180 Resp: 495020

Ion	Ratio	Lower	Upper
180	100		
182	93.9	76.8	115.2
145	32.0	26.4	39.6

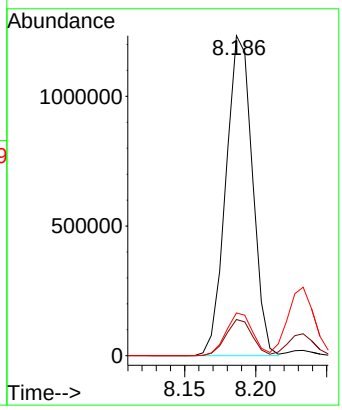




#31
Naphthalene
Concen: 42.475 ng
RT: 8.186 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:128 Resp: 159799

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.2	13.8
127	13.4	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
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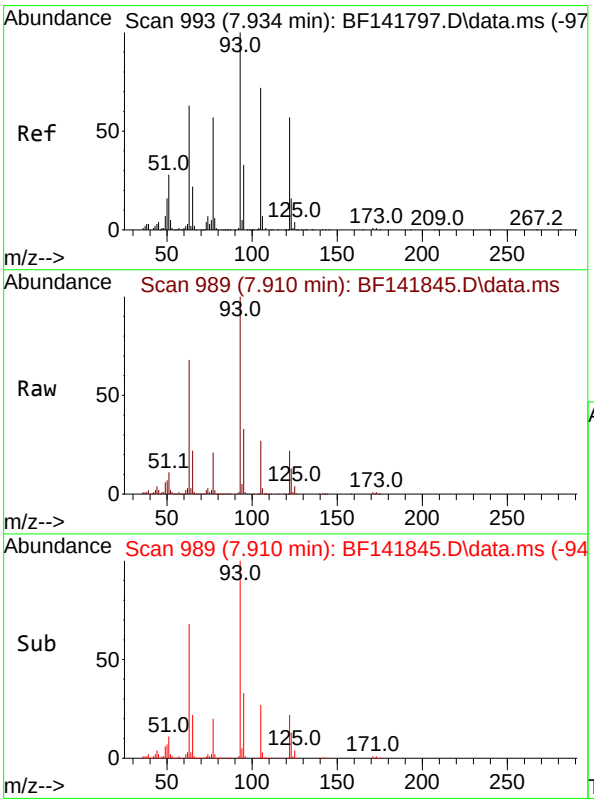
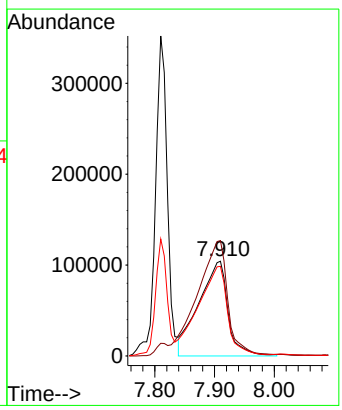
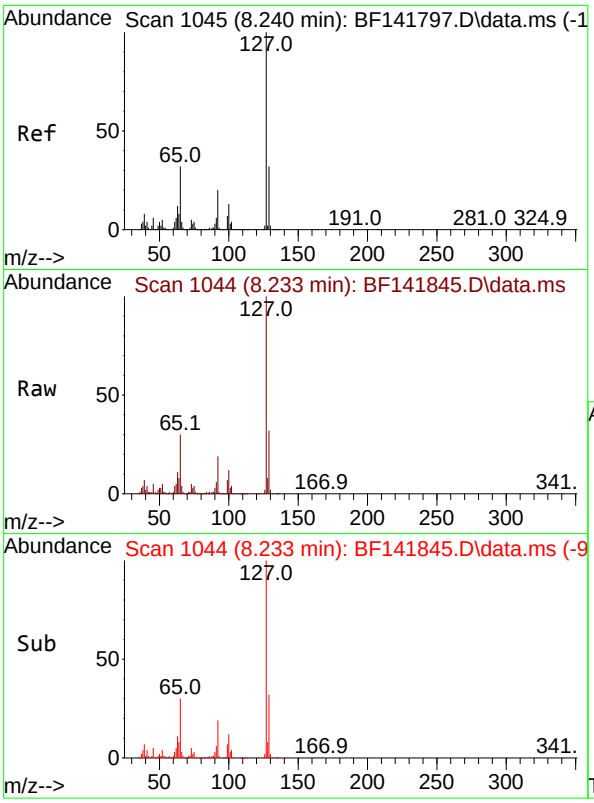


#32
Benzoic acid
Concen: 47.372 ng m
RT: 7.910 min Scan# 989
Delta R.T. -0.024 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:122 Resp: 356667

Ion	Ratio	Lower	Upper
122	100		
105	121.9	105.8	145.8
77	94.6	79.9	119.9

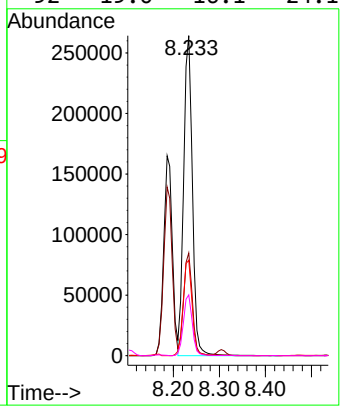




#33
4-Chloroaniline
Concen: 25.186 ng
RT: 8.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:127 Resp: 34742

Ion	Ratio	Lower	Upper
127	100		
129	32.1	26.1	39.1
65	29.8	25.7	38.5
92	19.0	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

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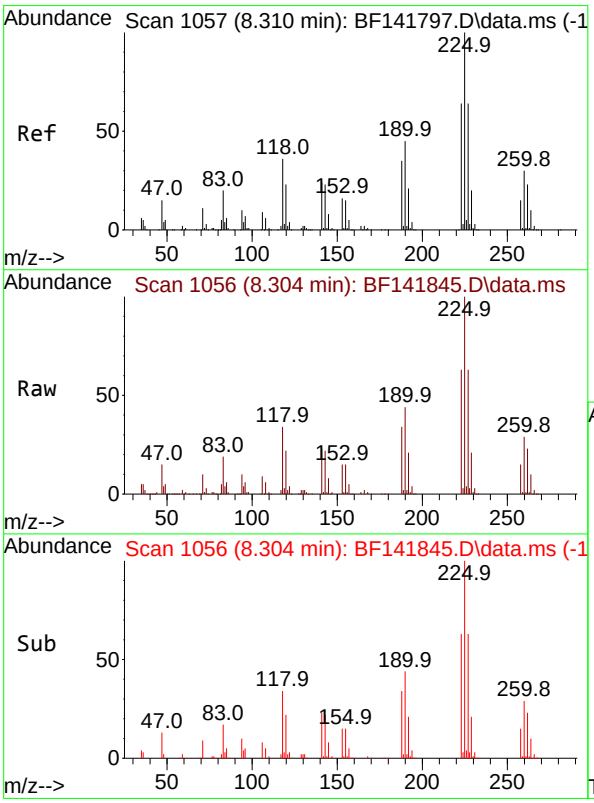
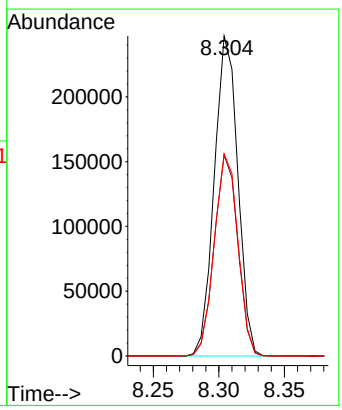
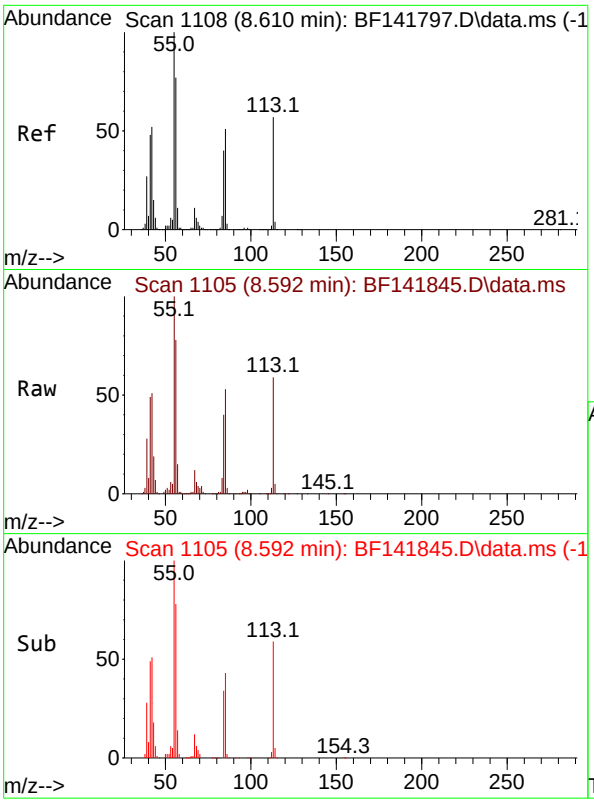


#34
Hexachlorobutadiene
Concen: 43.322 ng
RT: 8.304 min Scan# 1056
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:225 Resp: 307767

Ion	Ratio	Lower	Upper
225	100		
223	62.8	51.4	77.2
227	63.2	51.6	77.4

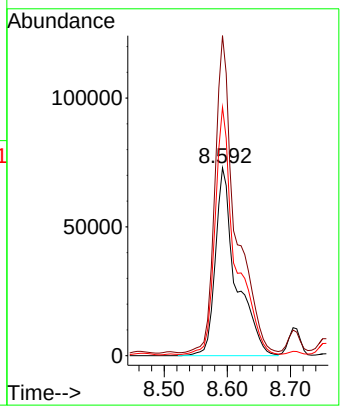




#35
Caprolactam
Concen: 51.613 ng
RT: 8.592 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:113 Resp: 16565

Ion	Ratio	Lower	Upper
113	100		
55	170.4	155.6	195.6
56	132.3	114.6	154.6



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

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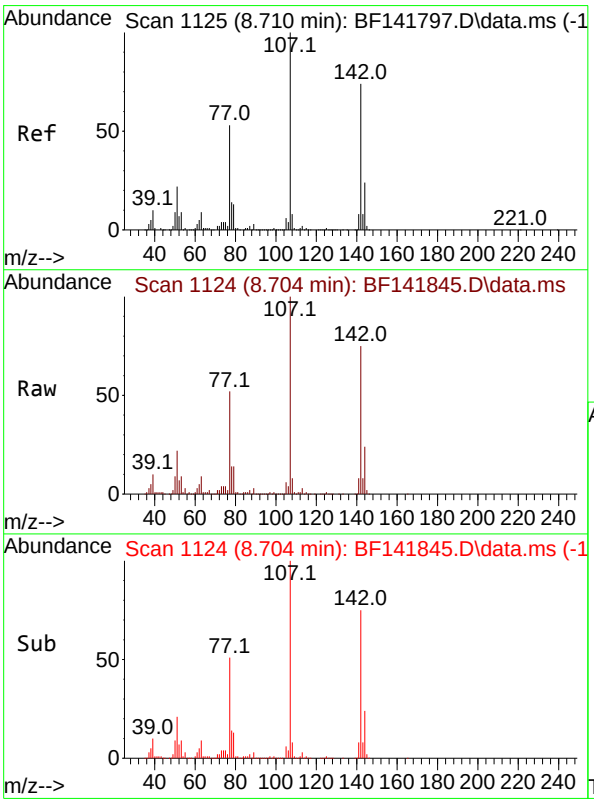
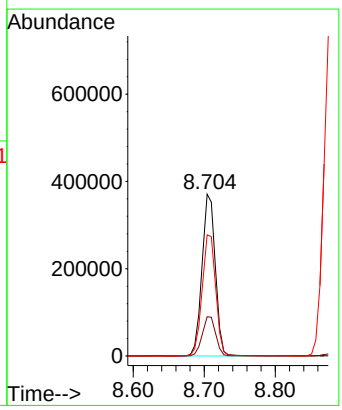
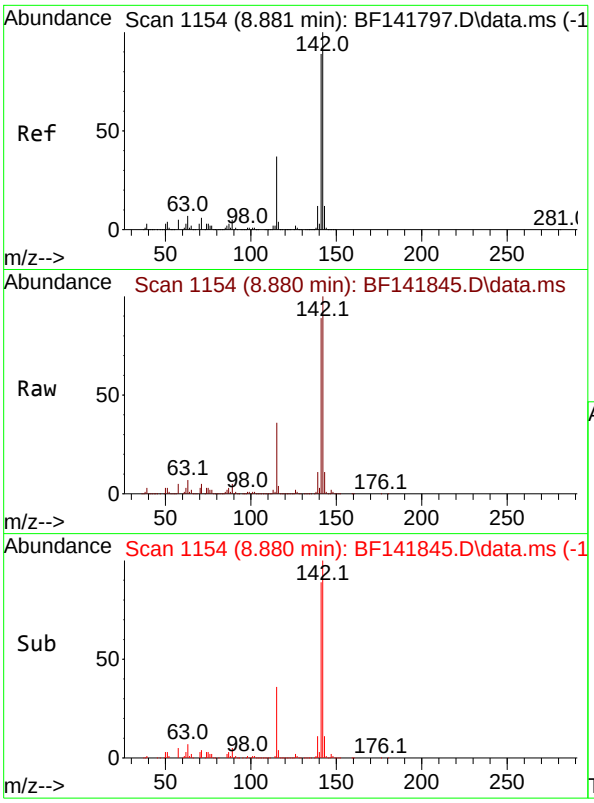


#36
4-Chloro-3-methylphenol
Concen: 41.874 ng
RT: 8.704 min Scan# 1124
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:107 Resp: 485311

Ion	Ratio	Lower	Upper
107	100		
144	24.2	19.4	29.0
142	74.9	59.4	89.0

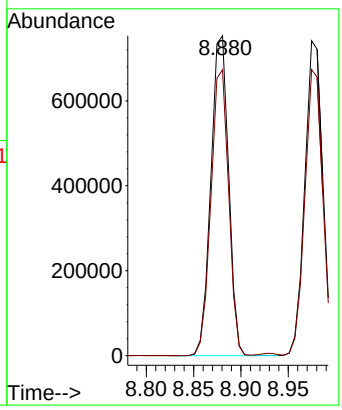




#37
2-Methylnaphthalene
Concen: 39.744 ng
RT: 8.880 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:142 Resp: 98075

Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.1	106.7



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

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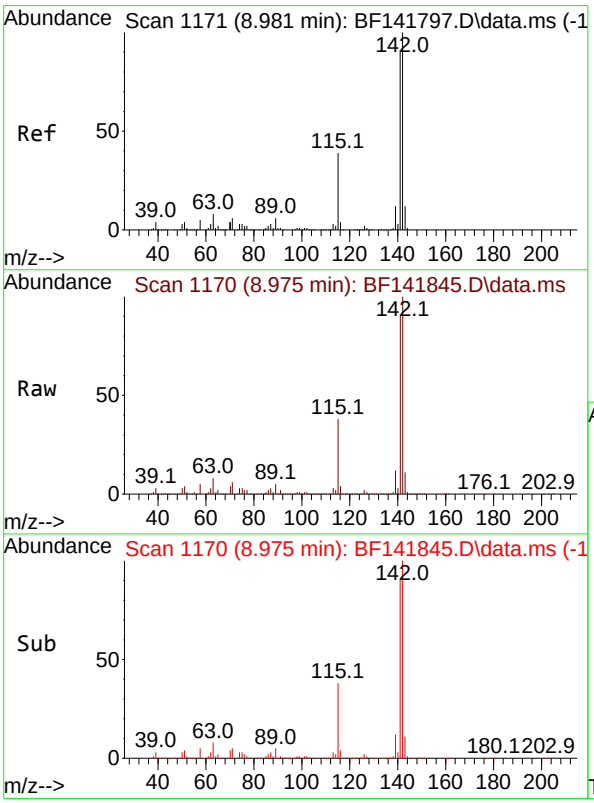
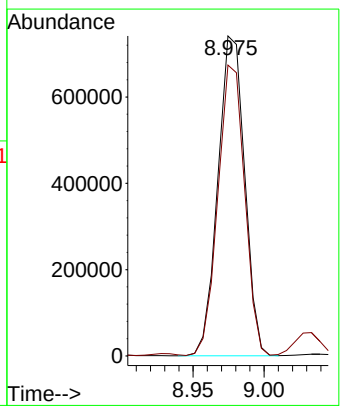
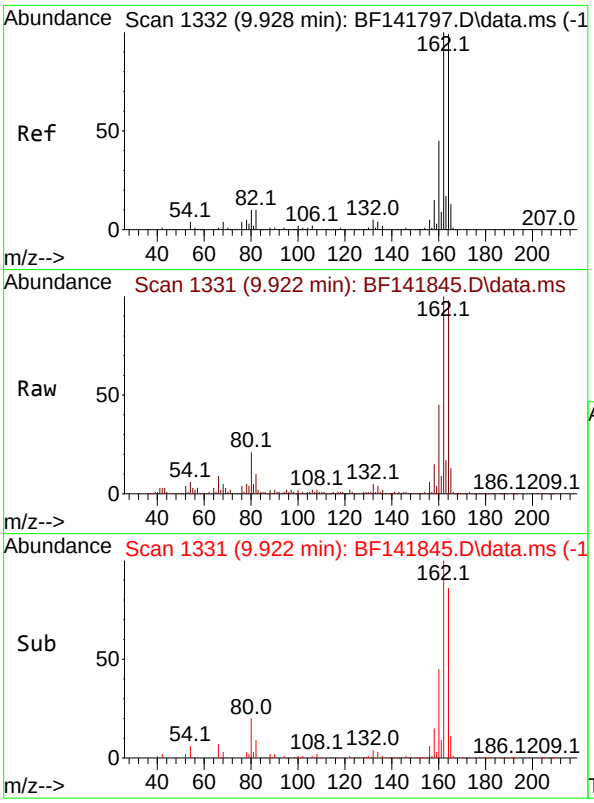


#38
1-Methylnaphthalene
Concen: 40.974 ng
RT: 8.975 min Scan# 1170
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:142 Resp: 970185

Ion	Ratio	Lower	Upper
142	100		
141	90.9	73.1	109.7

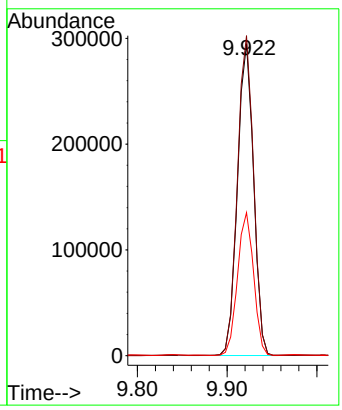




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:164 Resp: 36723

Ion	Ratio	Lower	Upper
164	100		
162	102.5	80.6	120.8
160	45.8	36.3	54.5



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

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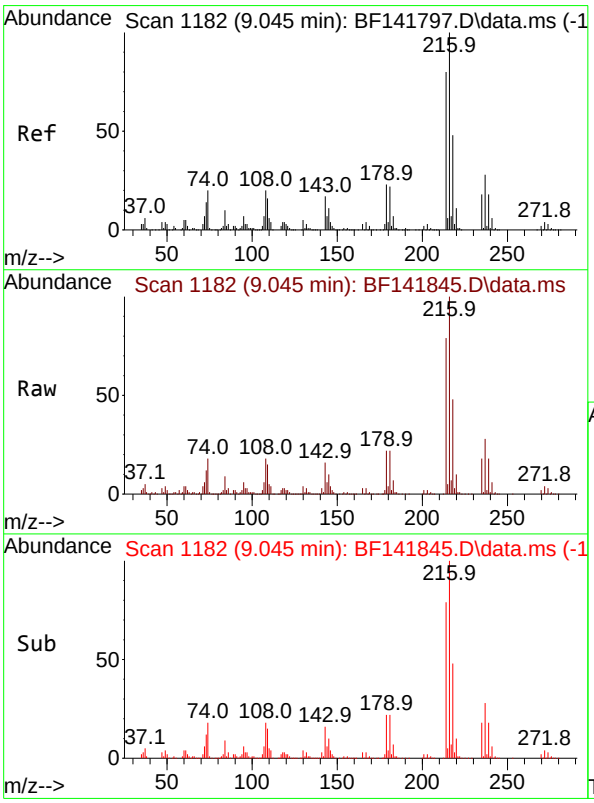
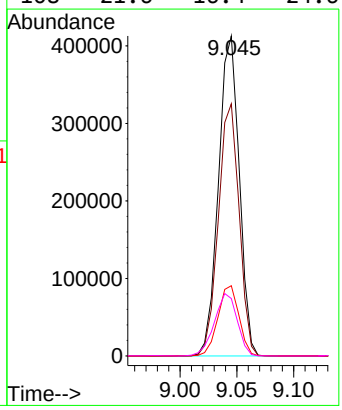
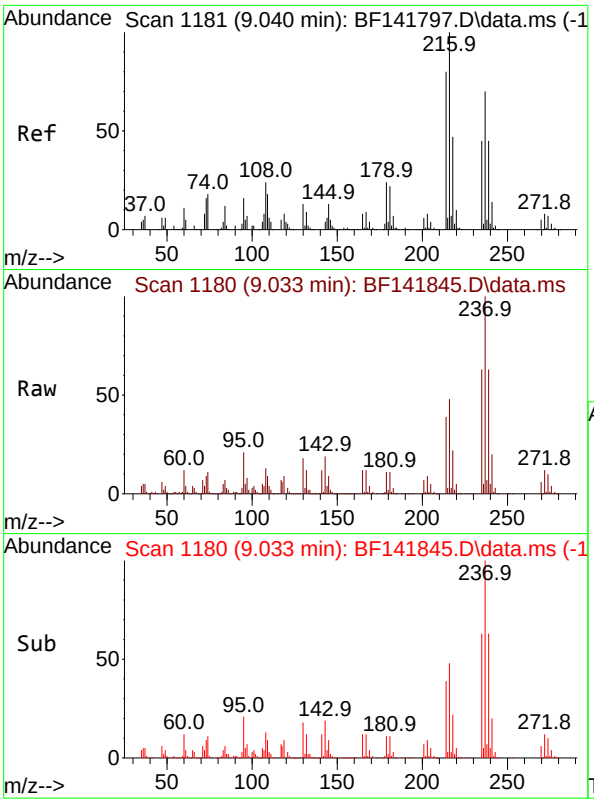


#40
1,2,4,5-Tetrachlorobenzene
Concen: 49.478 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:216 Resp: 524773

Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.5	95.3
179	22.3	18.1	27.1
108	21.6	16.4	24.6

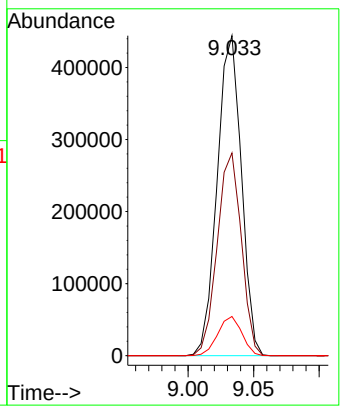




#41
Hexachlorocyclopentadiene
Concen: 128.474 ng
RT: 9.033 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:237 Resp: 56865

Ion	Ratio	Lower	Upper
237	100		
235	63.3	43.3	83.3
272	12.2	0.0	31.9



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

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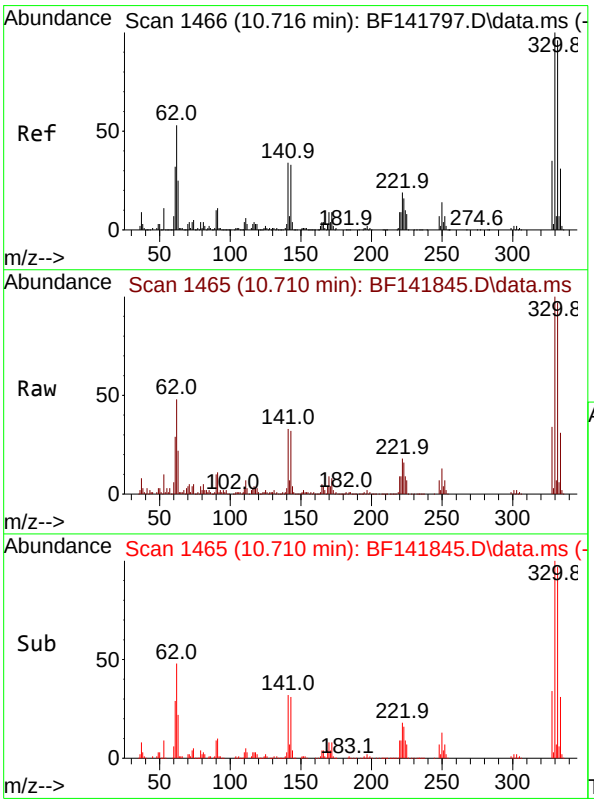
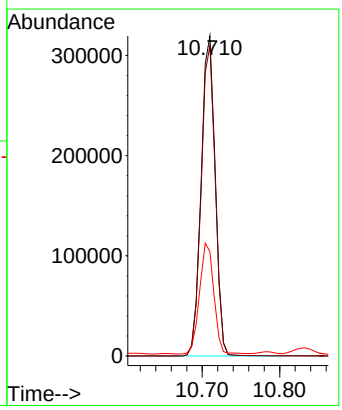
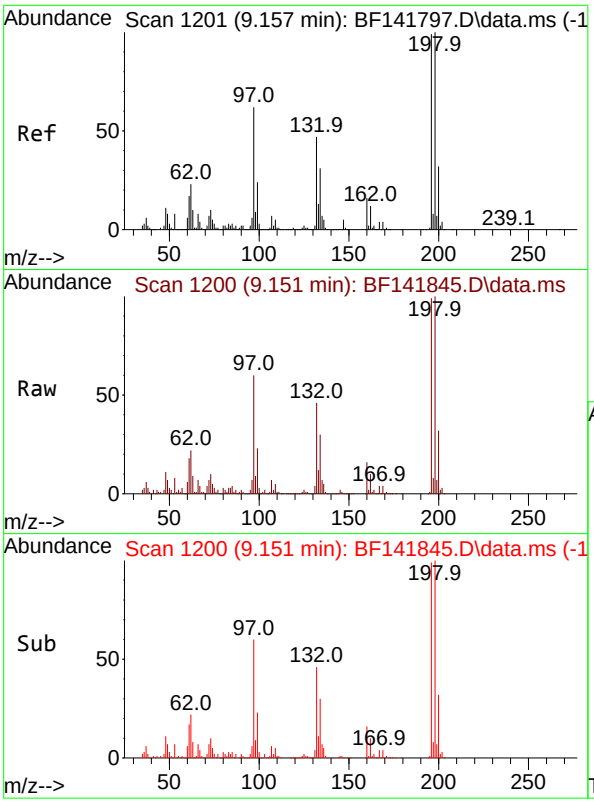


#42
2,4,6-Tribromophenol
Concen: 116.878 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:330 Resp: 402954

Ion	Ratio	Lower	Upper
330	100		
332	96.7	76.6	115.0
141	35.2	29.0	43.4





#43
2,4,6-Trichlorophenol
Concen: 46.755 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:196 Resp: 32032

Ion	Ratio	Lower	Upper
196	100		
198	100.8	80.4	120.6
200	32.7	25.7	38.5

Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

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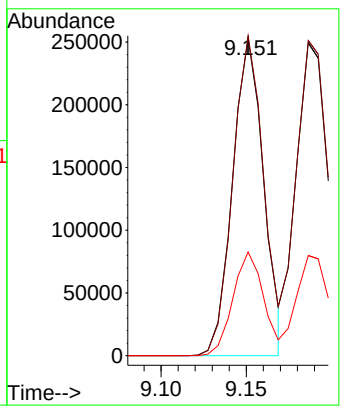
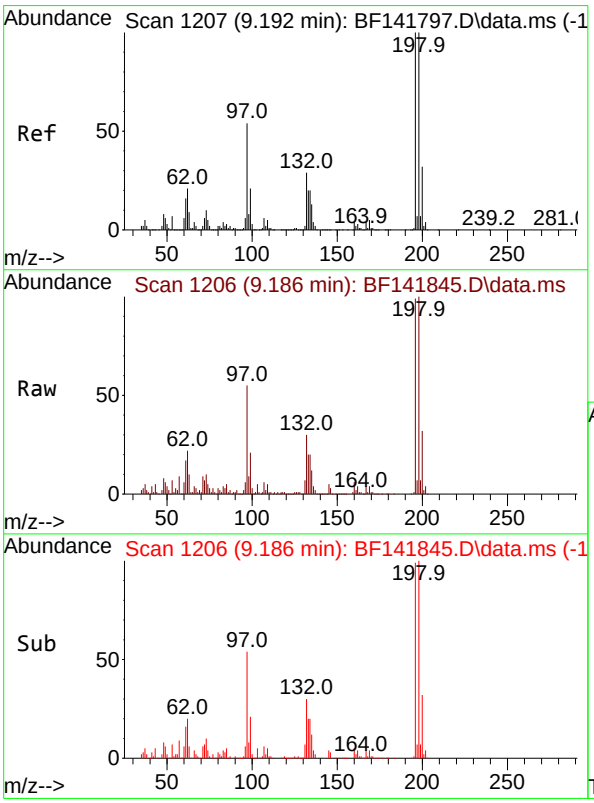
Supervised By :Jagrut Upadhyay 03/06/2025

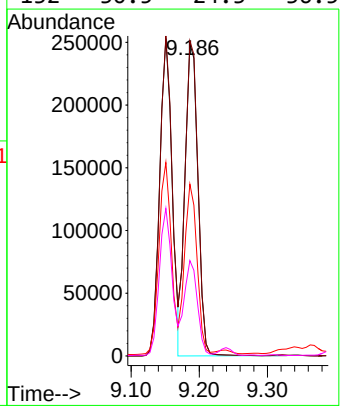


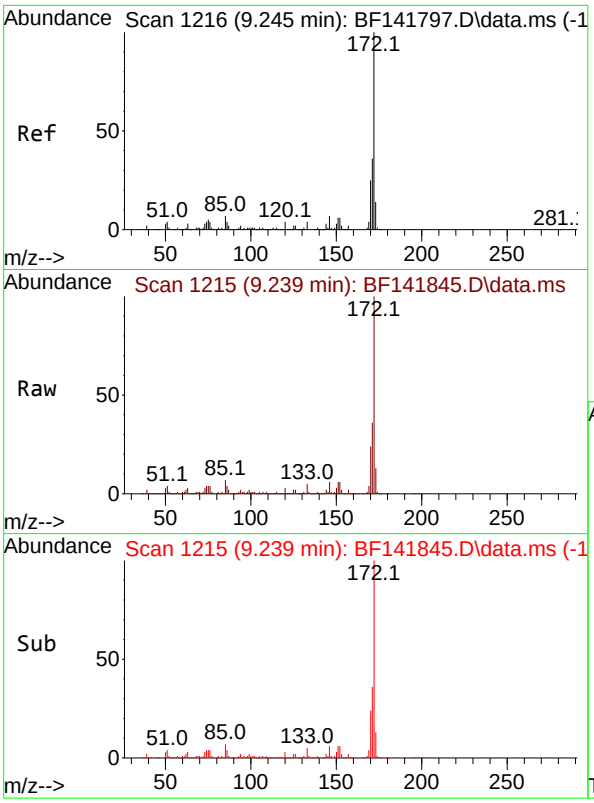


#44
2,4,5-Trichlorophenol
Concen: 48.135 ng
RT: 9.186 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:196 Resp: 326554

Ion	Ratio	Lower	Upper
196	100		
198	100.7	79.7	119.5
97	54.9	44.2	66.2
132	30.5	24.3	36.5

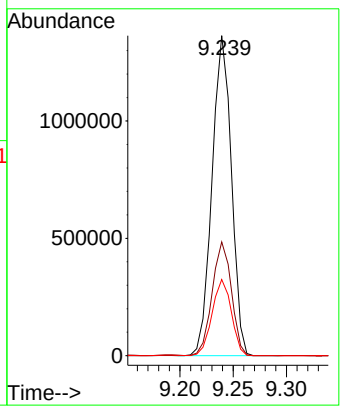




#45
2-Fluorobiphenyl
Concen: 75.048 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:172 Resp: 171879

Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.2	43.8
170	23.8	19.7	29.5



Instrument :
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ClientSampleId :
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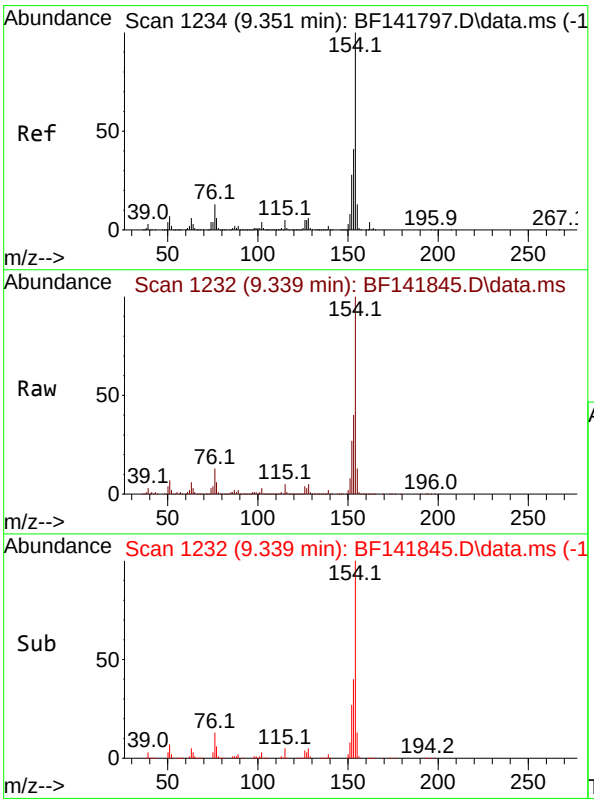
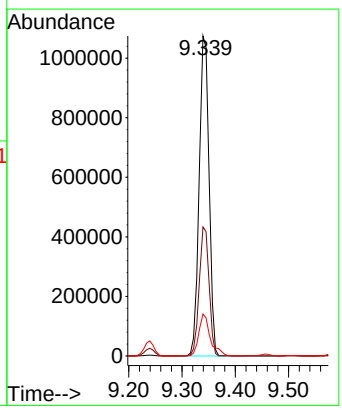
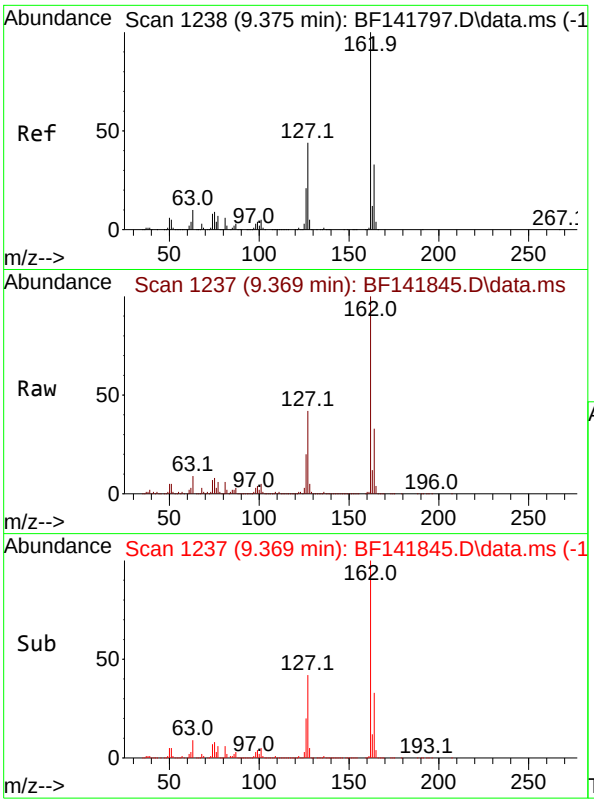


#46
1,1'-Biphenyl
Concen: 49.416 ng
RT: 9.339 min Scan# 1232
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:154 Resp: 1381301

Ion	Ratio	Lower	Upper
154	100		
153	40.3	21.4	61.4
76	13.1	0.0	33.4

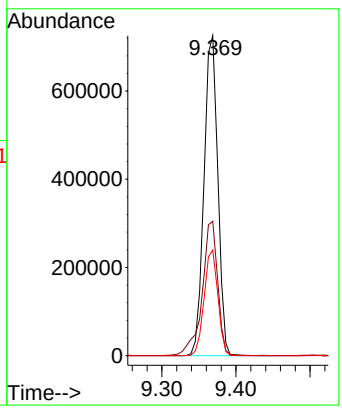




#47
2-Chloronaphthalene
Concen: 45.529 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:162 Resp: 93930

Ion	Ratio	Lower	Upper
162	100		
127	42.0	35.0	52.6
164	33.0	26.6	40.0



Instrument :
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ClientSampleId :
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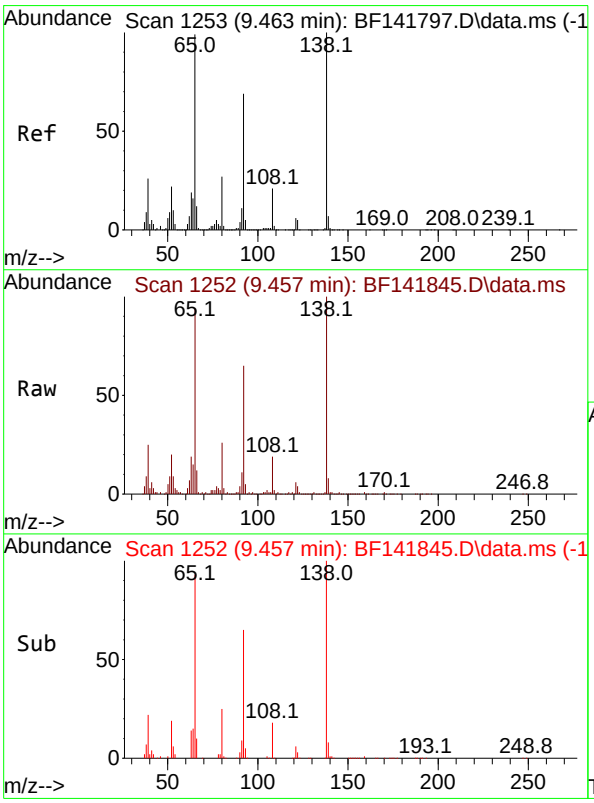
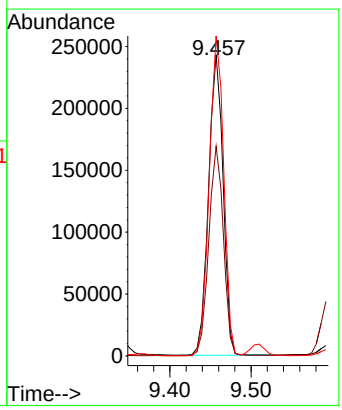
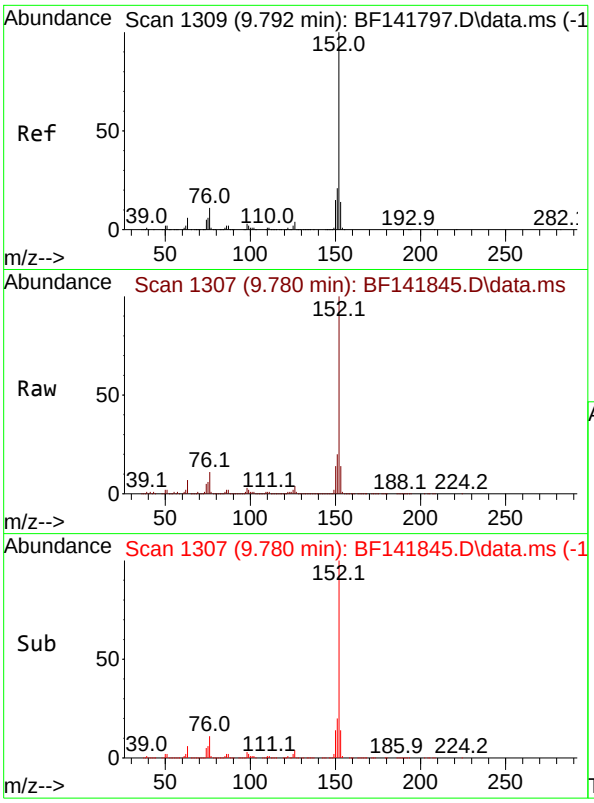


#48
2-Nitroaniline
Concen: 52.958 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 65 Resp: 301849

Ion	Ratio	Lower	Upper
65	100		
92	69.6	55.7	83.5
138	106.2	80.6	121.0

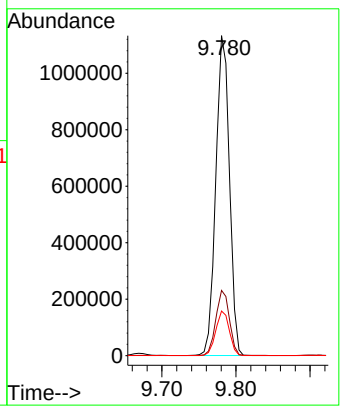




#49
Acenaphthylene
Concen: 46.713 ng
RT: 9.780 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:152 Resp: 144494

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	24.8
153	14.0	11.2	16.8



Instrument :
BNA_F
ClientSampleId :
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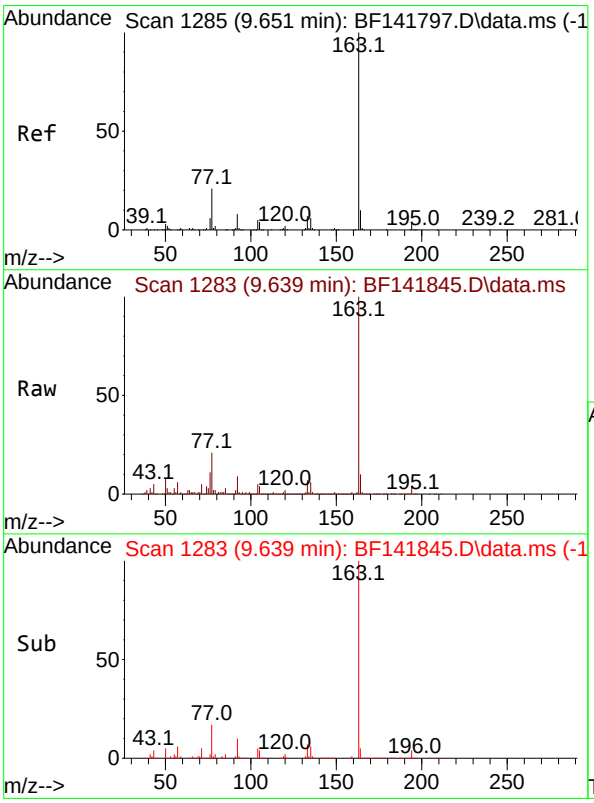
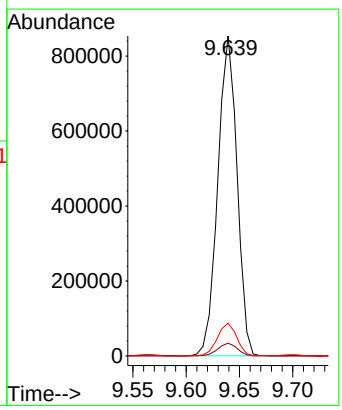
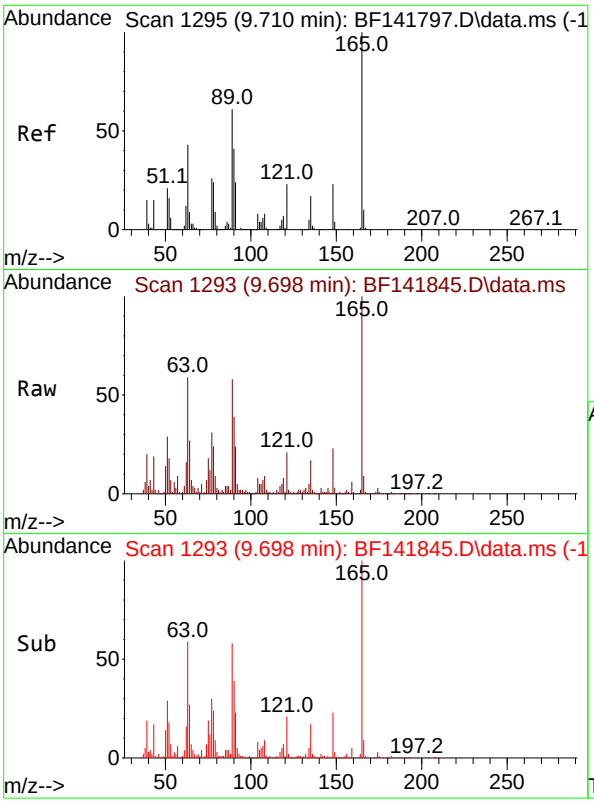


#50
Dimethylphthalate
Concen: 43.481 ng
RT: 9.639 min Scan# 1283
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:163 Resp: 1069323

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.3	8.4	12.6





#51
2,6-Dinitrotoluene
Concen: 49.987 ng
RT: 9.698 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:165 Resp: 23575

Ion	Ratio	Lower	Upper
165	100		
63	59.4	49.5	74.3
89	57.8	49.0	73.4

Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

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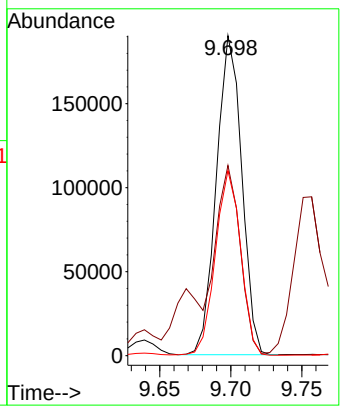
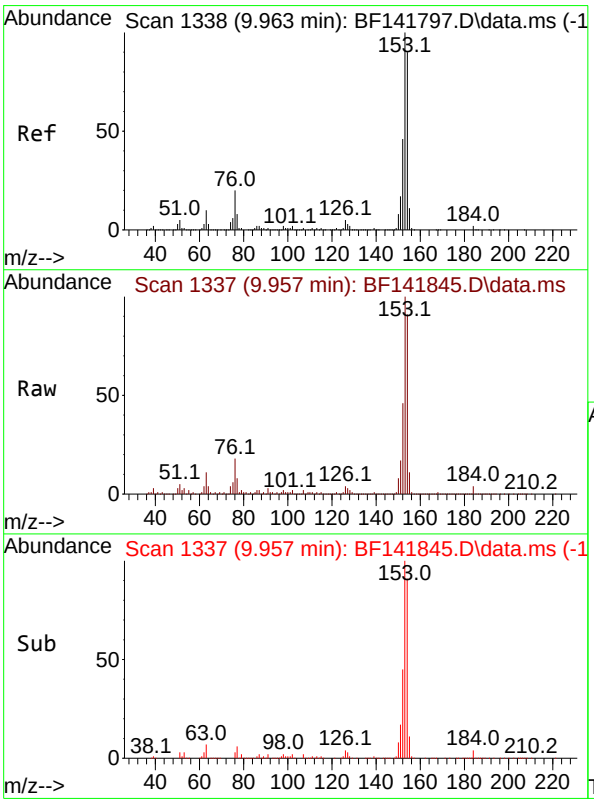
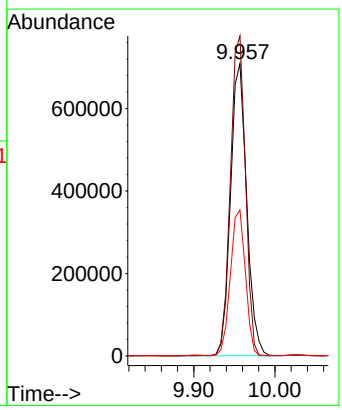


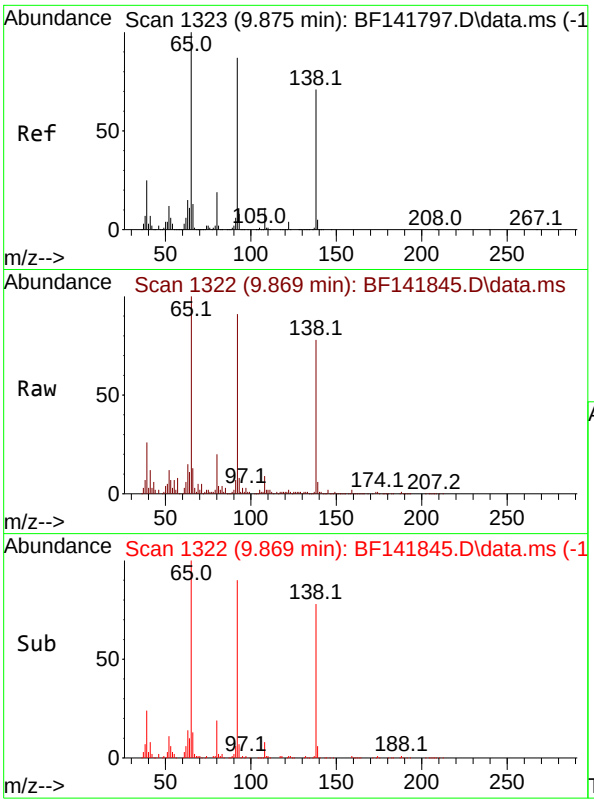


#52
Acenaphthene
Concen: 46.974 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:154 Resp: 980429

Ion	Ratio	Lower	Upper
154	100		
153	109.5	88.7	133.1
152	49.9	40.9	61.3





#53
3-Nitroaniline
Concen: 36.508 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:138 Resp: 17915

Ion	Ratio	Lower	Upper
138	100		
108	11.2	12.7	19.1#
92	116.4	97.9	146.9

Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

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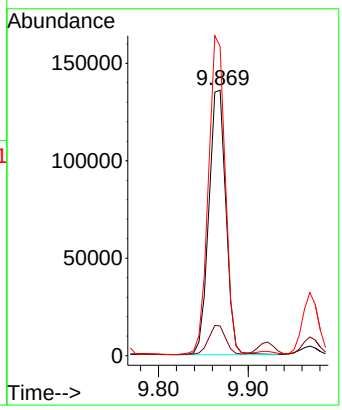
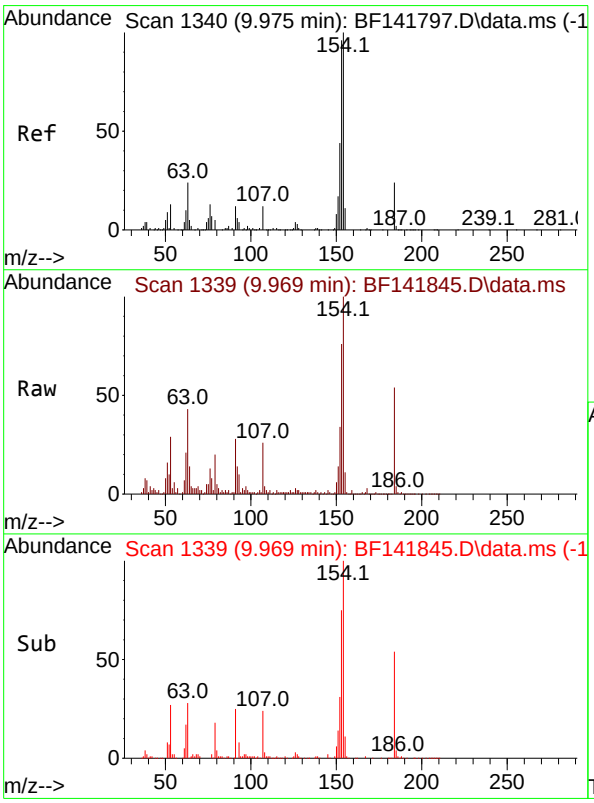
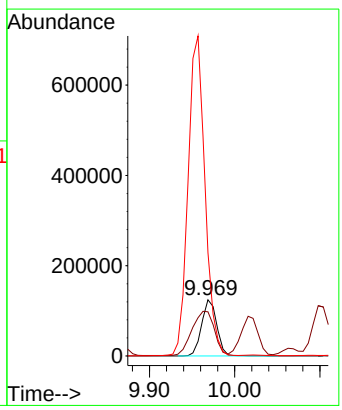


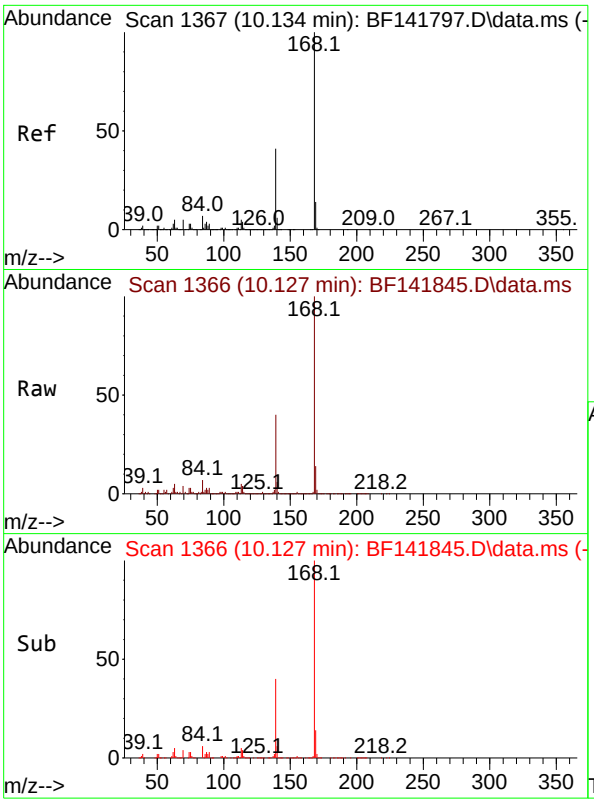


#54
2,4-Dinitrophenol
Concen: 73.318 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:184 Resp: 153518

Ion	Ratio	Lower	Upper
184	100		
63	78.6	79.0	118.6#
154	184.3	335.8	503.8#

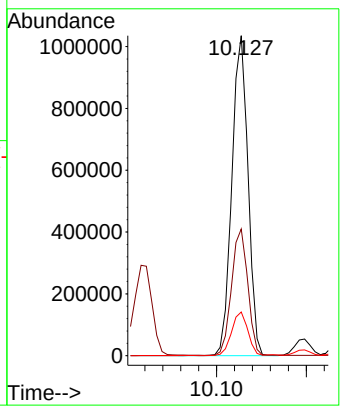




#55
Dibenzofuran
Concen: 42.456 ng
RT: 10.127 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:168 Resp: 128975

Ion	Ratio	Lower	Upper
168	100		
139	39.6	32.9	49.3
169	13.7	11.1	16.7



Instrument :
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ClientSampleId :
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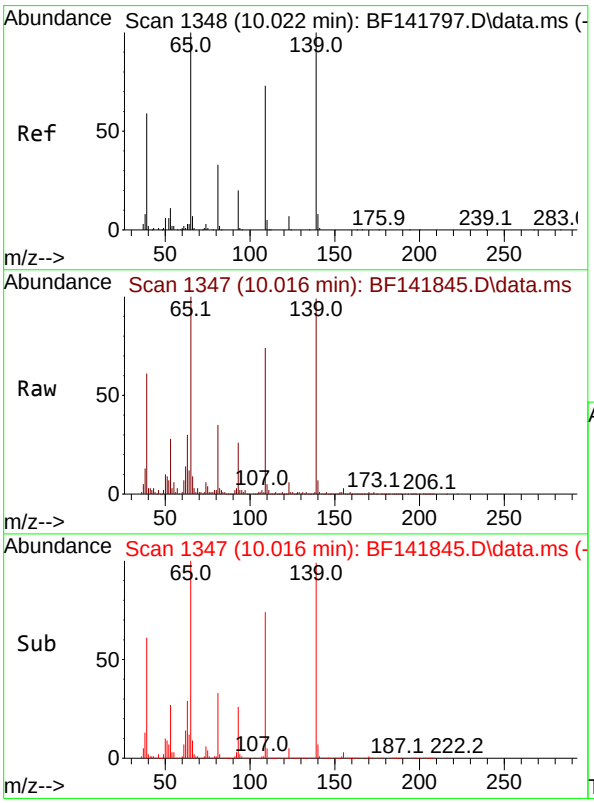
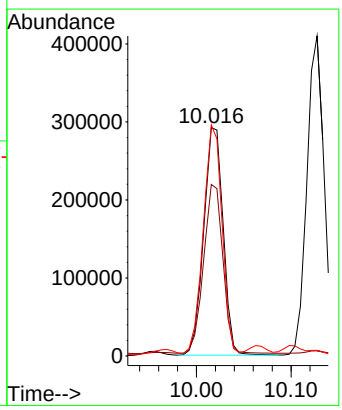
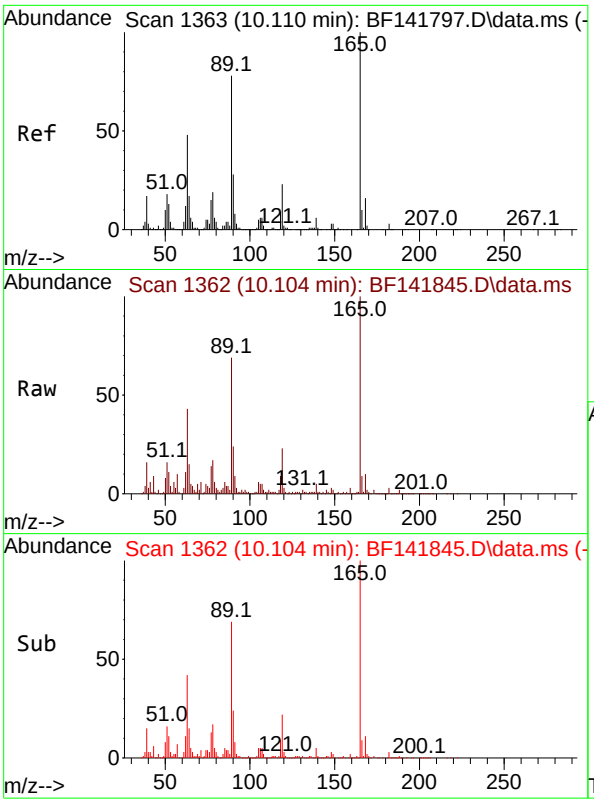


#56
4-Nitrophenol
Concen: 114.125 ng
RT: 10.016 min Scan# 1347
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:139 Resp: 414529

Ion	Ratio	Lower	Upper
139	100		
109	75.1	53.4	93.4
65	101.2	82.1	122.1

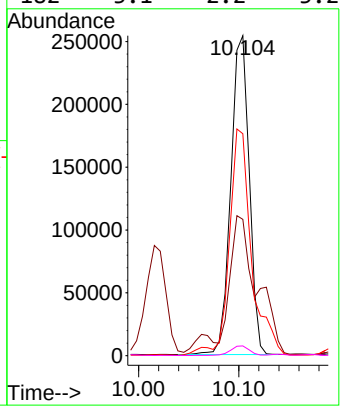




#57
2,4-Dinitrotoluene
Concen: 55.621 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:165 Resp: 32309

Ion	Ratio	Lower	Upper
165	100		
63	42.6	38.8	58.2
89	69.4	62.6	94.0
182	3.1	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
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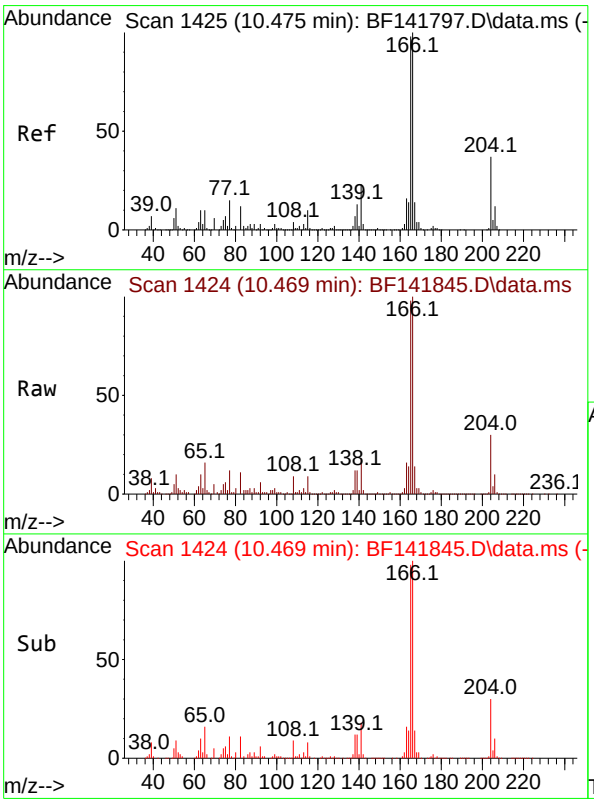
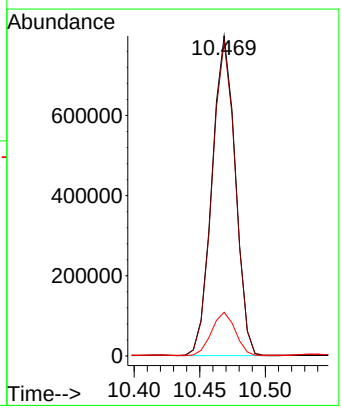
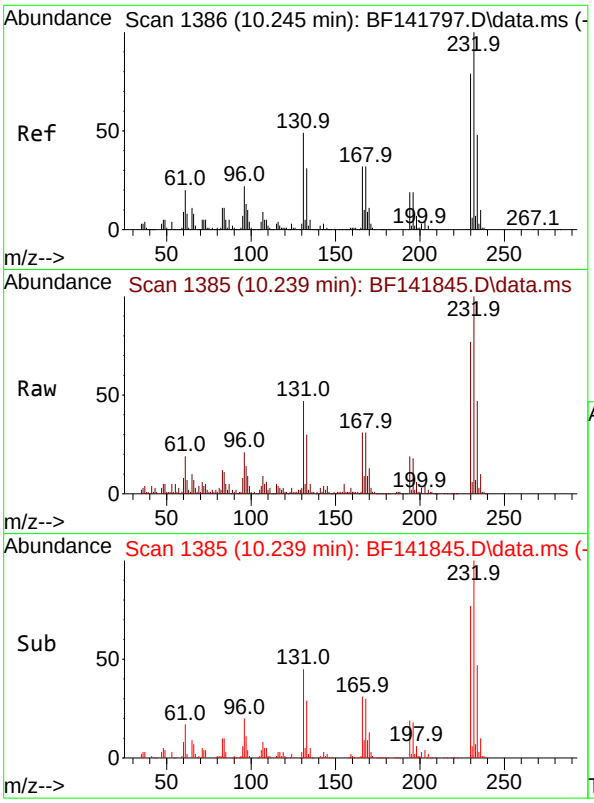


#58
Fluorene
Concen: 43.363 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:166 Resp: 986733

Ion	Ratio	Lower	Upper
166	100		
165	98.1	78.6	117.8
167	13.6	11.0	16.4

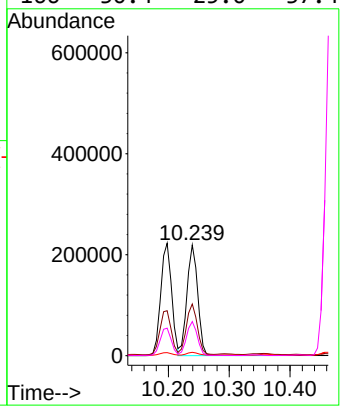




#59
2,3,4,6-Tetrachlorophenol
Concen: 45.723 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:232 Resp: 26977

Ion	Ratio	Lower	Upper
232	100		
131	45.8	37.8	56.8
130	2.8	2.0	3.0
166	30.4	25.0	37.4



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

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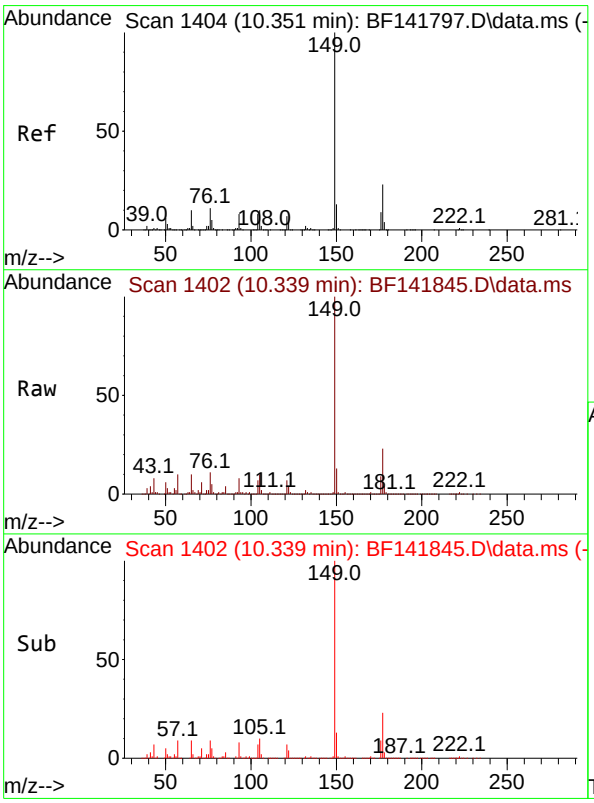
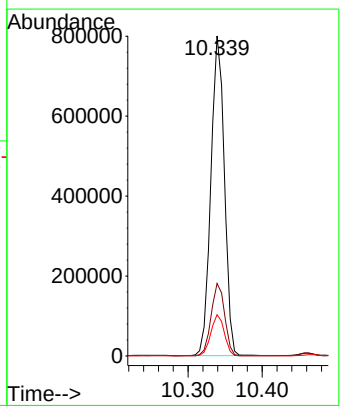
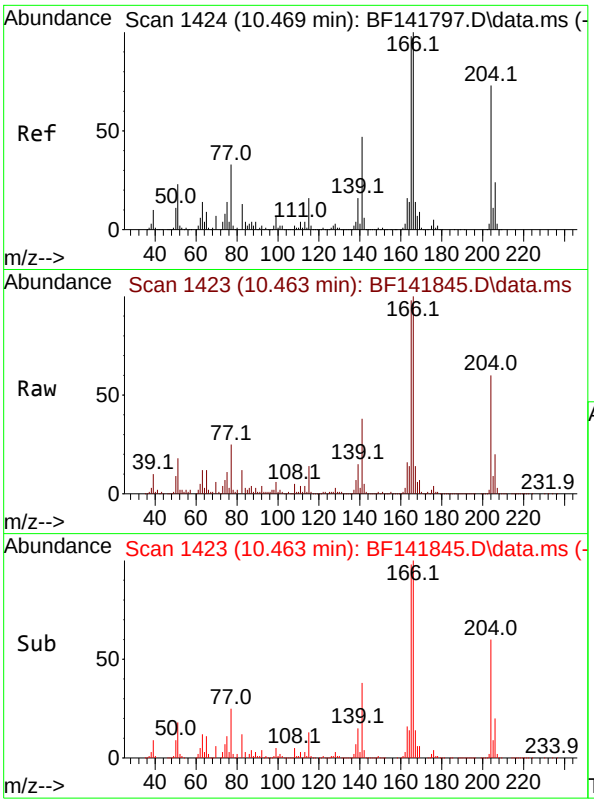


#60
Diethylphthalate
Concen: 40.990 ng
RT: 10.339 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:149 Resp: 1010574

Ion	Ratio	Lower	Upper
149	100		
177	22.6	18.3	27.5
150	12.9	10.3	15.5





#61
4-Chlorophenyl-phenylether
Concen: 42.302 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Tgt Ion:204 Resp: 48228

Ion	Ratio	Lower	Upper
204	100		
206	32.7	26.2	39.4
141	63.7	51.7	77.5

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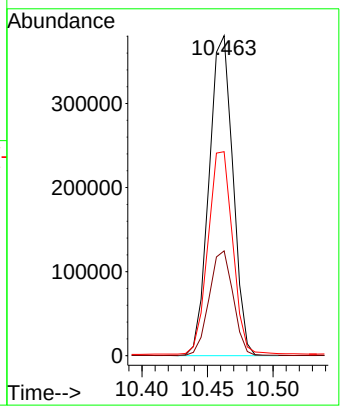
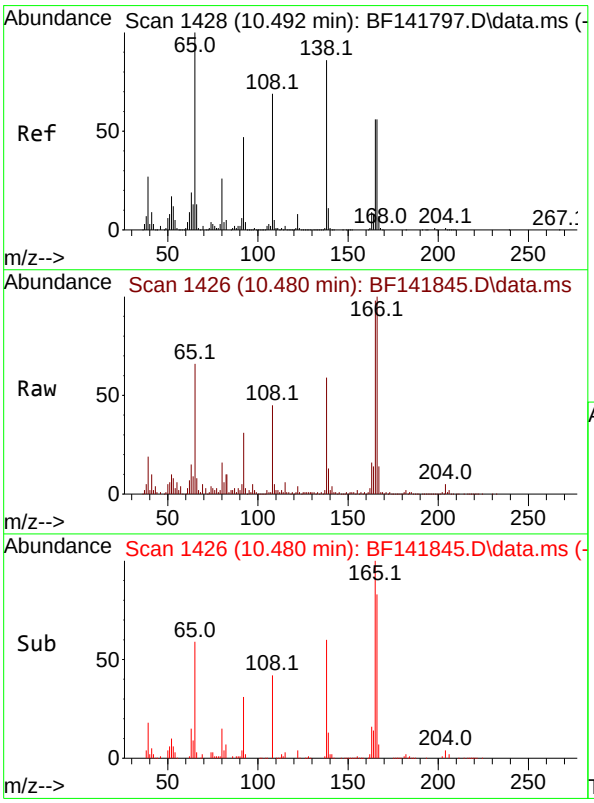
Supervised By :Jagrut Upadhyay 03/06/2025

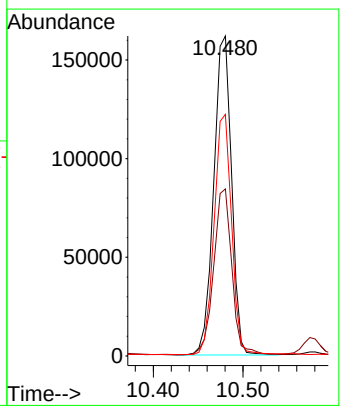


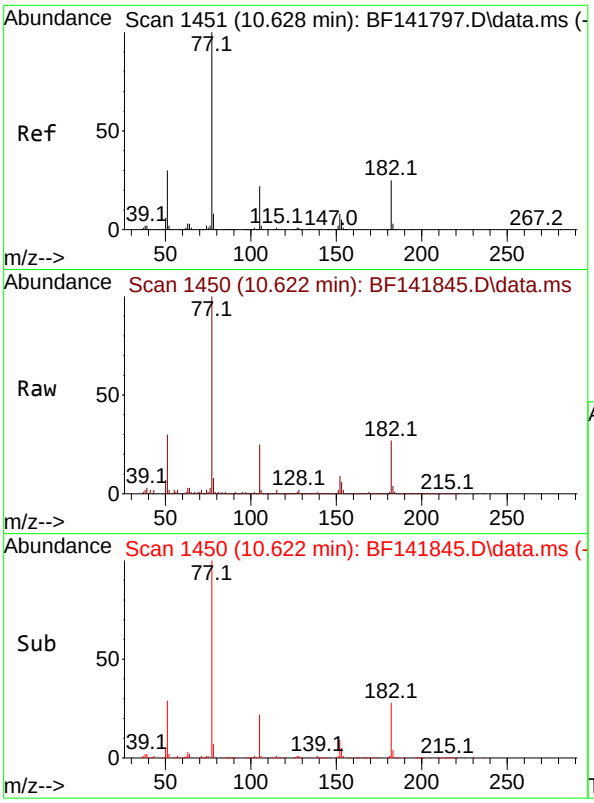


#62
4-Nitroaniline
Concen: 52.977 ng
RT: 10.480 min Scan# 1426
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:138 Resp: 222496

Ion	Ratio	Lower	Upper
138	100		
92	52.2	34.9	74.9
108	75.5	59.6	99.6

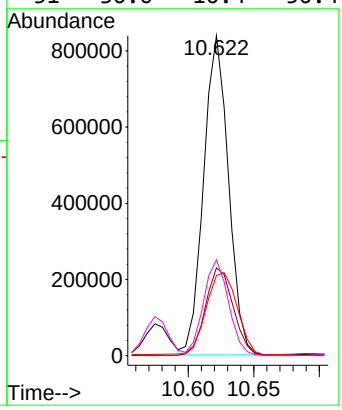




#63
Azobenzene
Concen: 42.529 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 77 Resp: 110399

Ion	Ratio	Lower	Upper
77	100		
182	27.5	4.2	44.2
105	25.1	1.5	41.5
51	30.0	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

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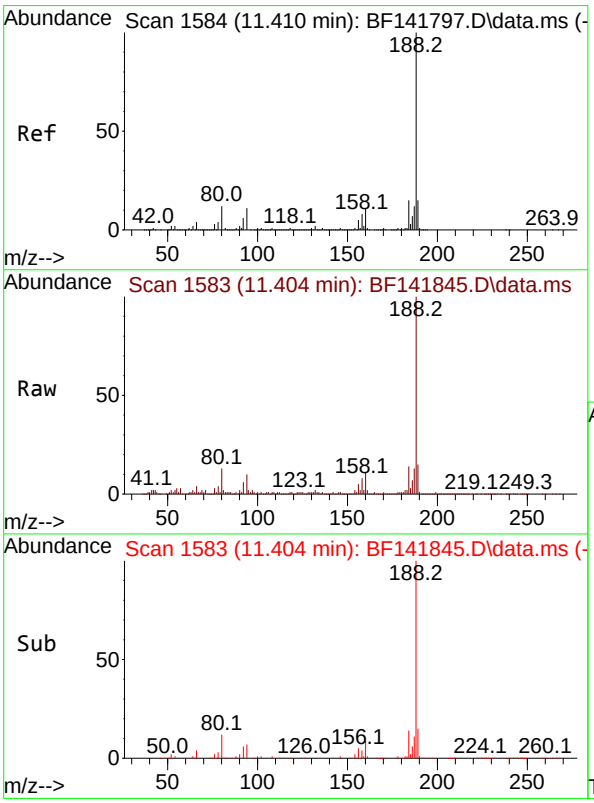
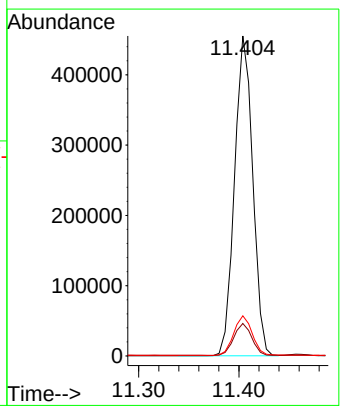
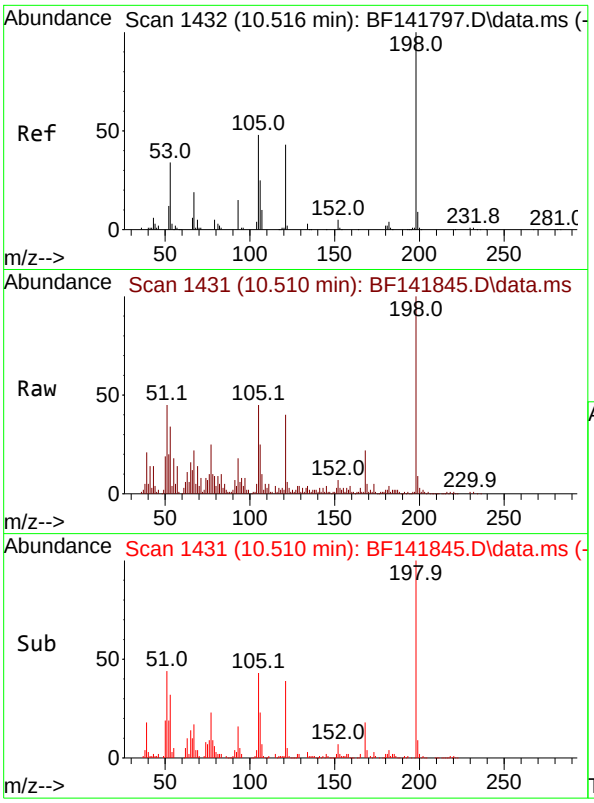


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:188 Resp: 575333

Ion	Ratio	Lower	Upper
188	100		
94	10.1	8.9	13.3
80	12.5	9.7	14.5

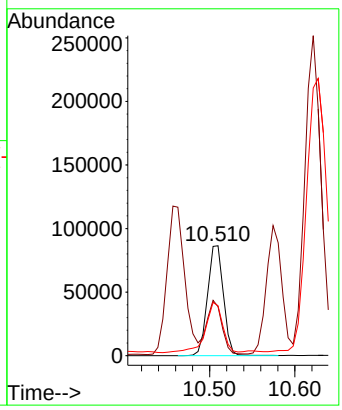




#65
4,6-Dinitro-2-methylphenol
Concen: 42.552 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:198 Resp: 11227

Ion	Ratio	Lower	Upper
198	100		
51	44.5	32.1	72.1
105	45.4	28.5	68.5



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

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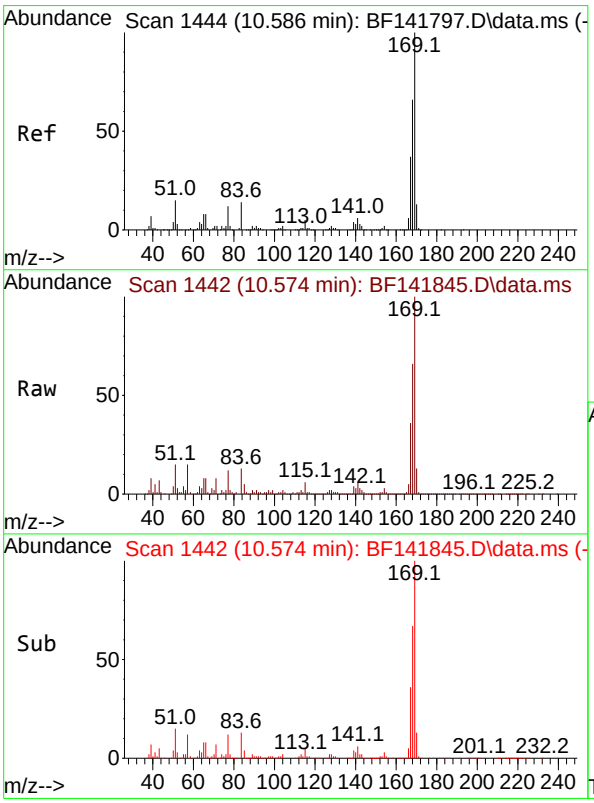
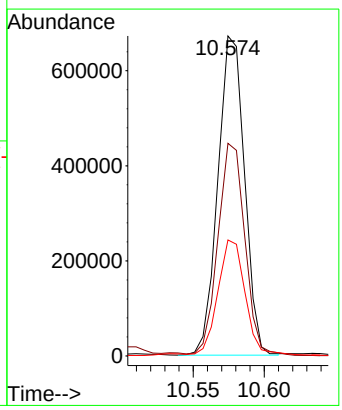
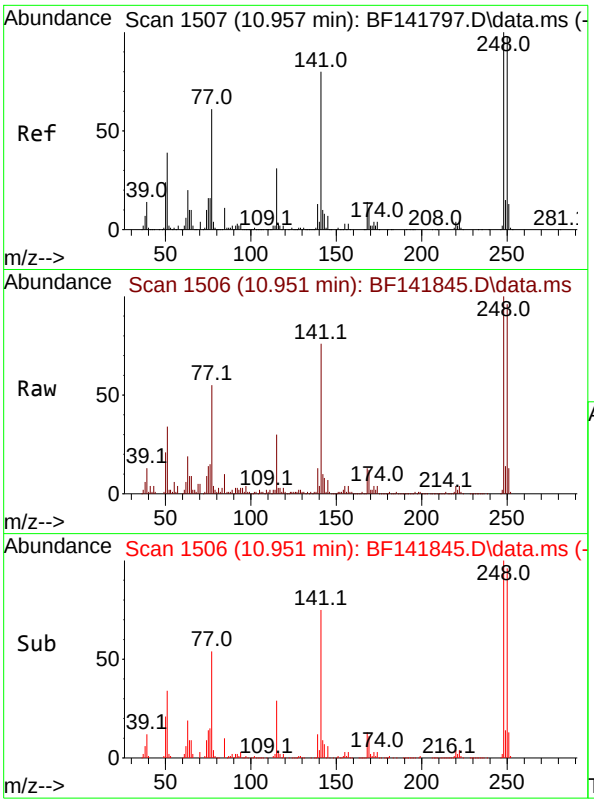


#66
n-Nitrosodiphenylamine
Concen: 46.279 ng
RT: 10.574 min Scan# 1442
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:169 Resp: 874306

Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.0	79.6
167	36.3	29.3	43.9





#67
4-Bromophenyl-phenylether
Concen: 44.548 ng
RT: 10.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:248 Resp: 29936

Ion	Ratio	Lower	Upper
248	100		
250	95.9	78.1	117.1
141	76.0	64.3	96.5

Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

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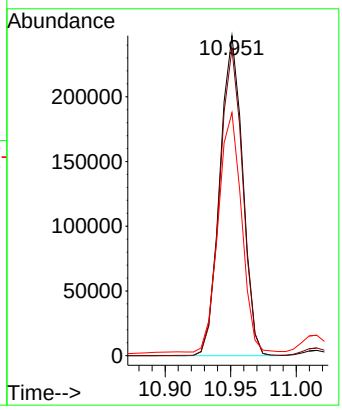
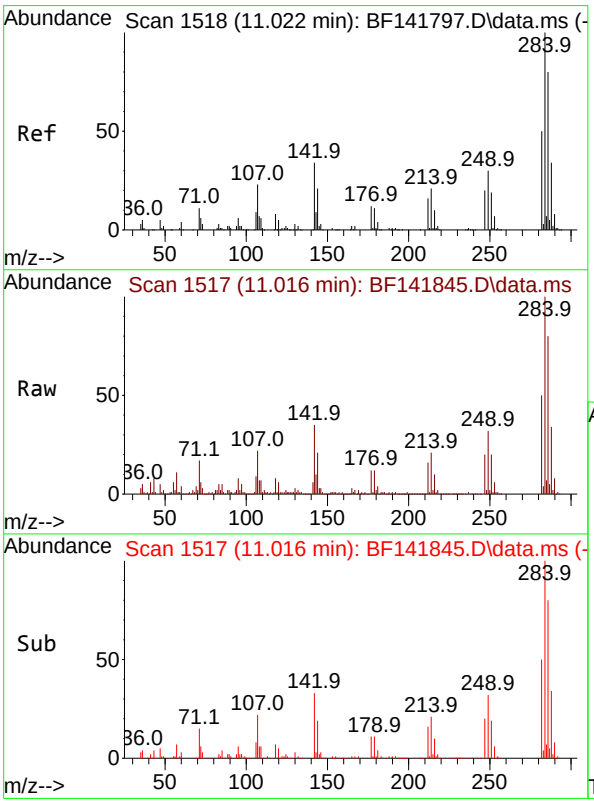
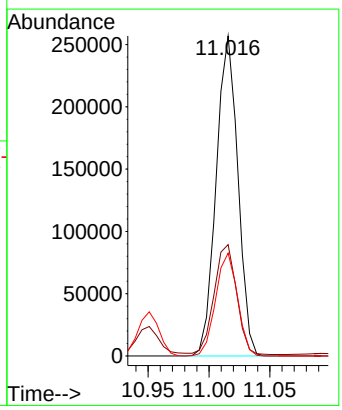


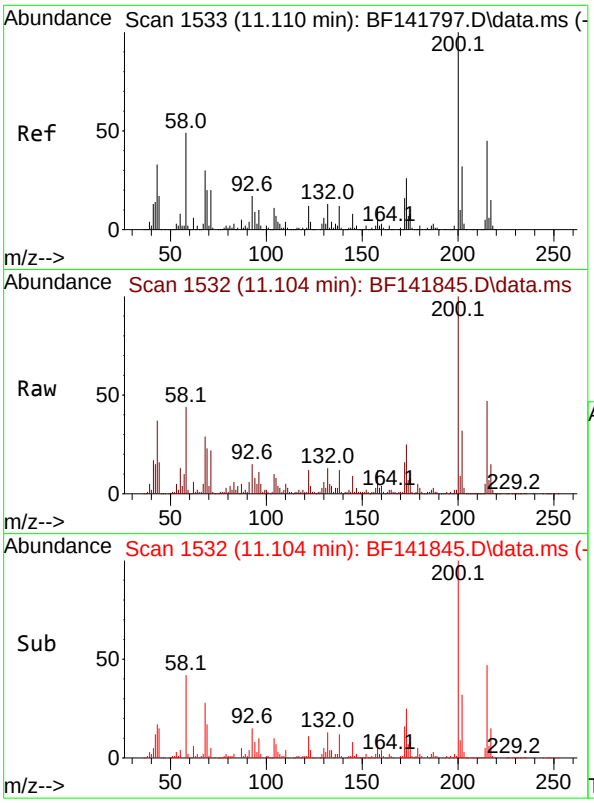


#68
Hexachlorobenzene
Concen: 44.897 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:284 Resp: 318600

Ion	Ratio	Lower	Upper
284	100		
142	34.8	28.2	42.2
249	32.1	25.5	38.3

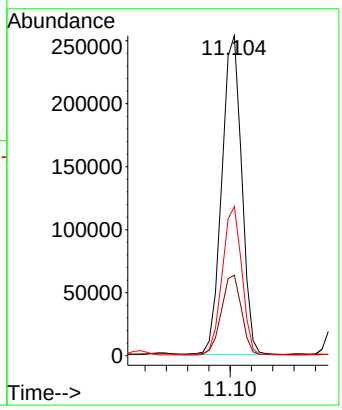




#69
Atrazine
Concen: 63.055 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:200 Resp: 32758

Ion	Ratio	Lower	Upper
200	100		
173	25.1	5.6	45.6
215	46.6	25.3	65.3



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

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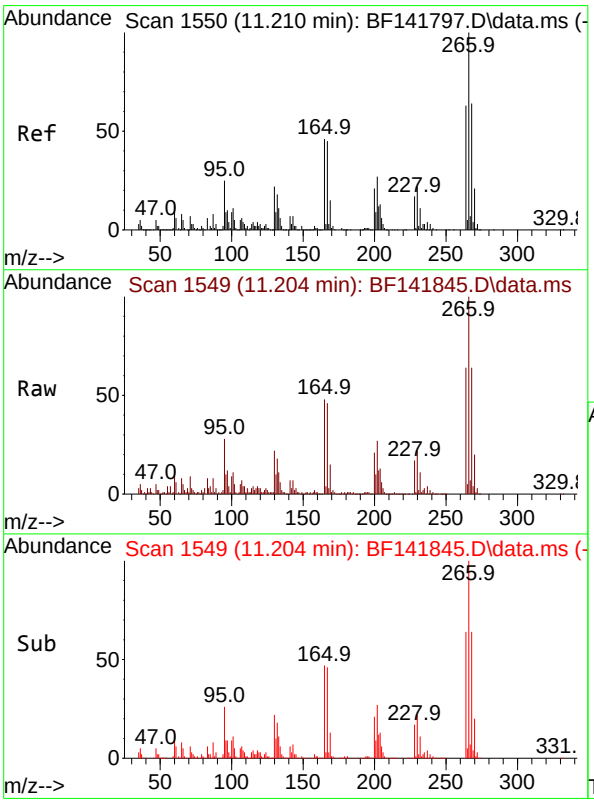
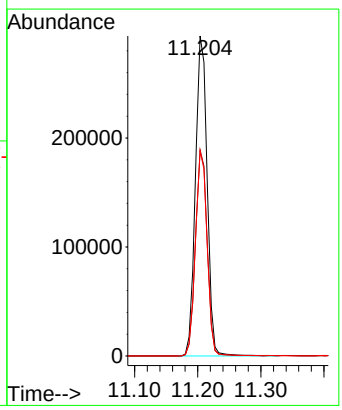
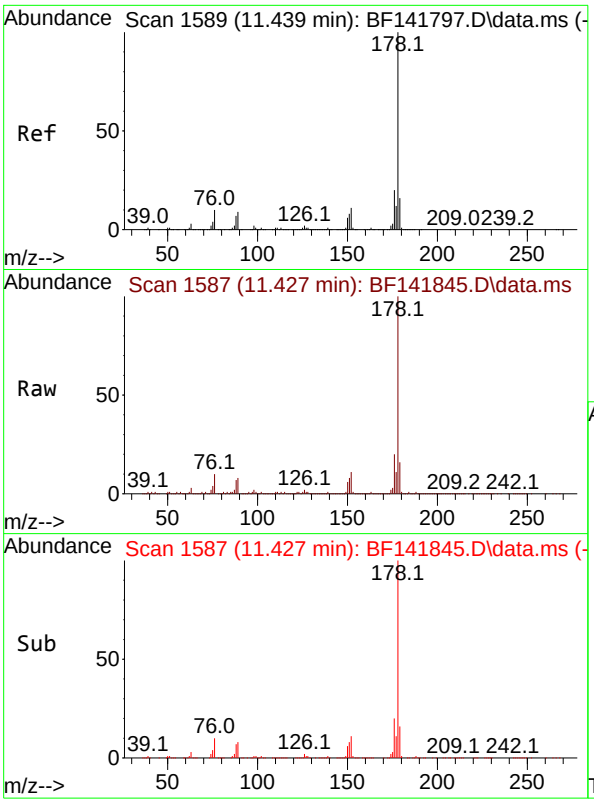


#70
Pentachlorophenol
Concen: 84.186 ng
RT: 11.204 min Scan# 1549
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:266 Resp: 378895

Ion	Ratio	Lower	Upper
266	100		
268	64.4	50.9	76.3
264	64.0	50.2	75.4

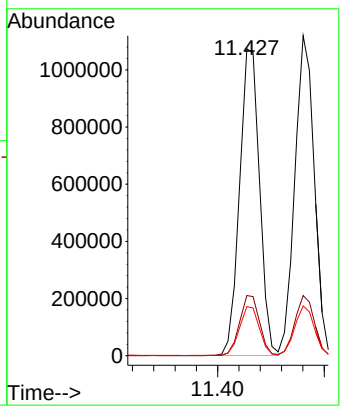




#71
Phenanthrene
Concen: 45.538 ng
RT: 11.427 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:178 Resp: 140140

Ion	Ratio	Lower	Upper
178	100		
176	19.6	16.0	24.0
179	16.0	12.6	19.0



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

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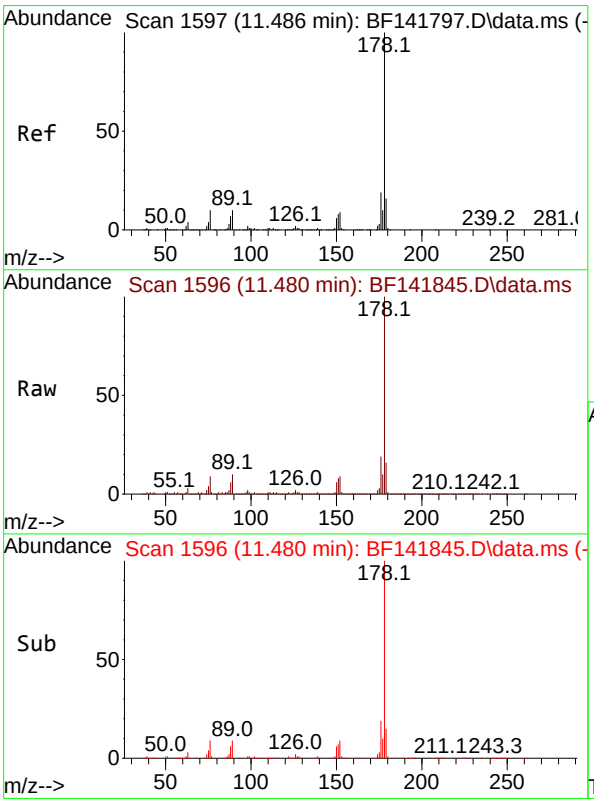
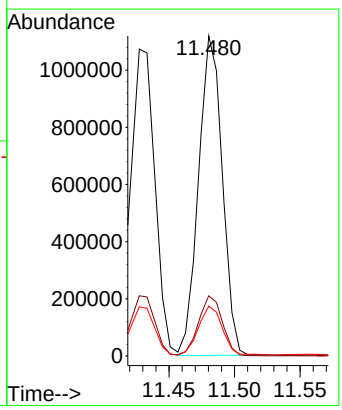
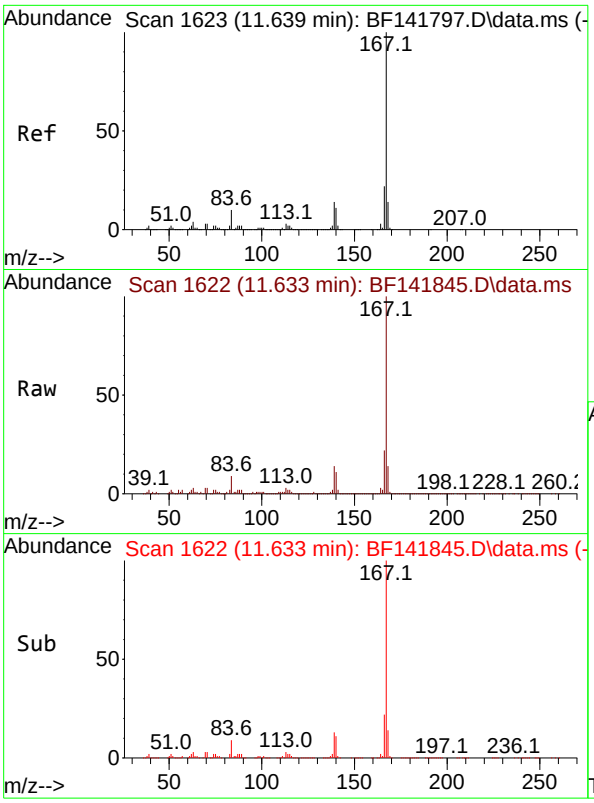


#72
Anthracene
Concen: 45.722 ng
RT: 11.480 min Scan# 1596
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:178 Resp: 1410204

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.0
179	15.6	12.8	19.2

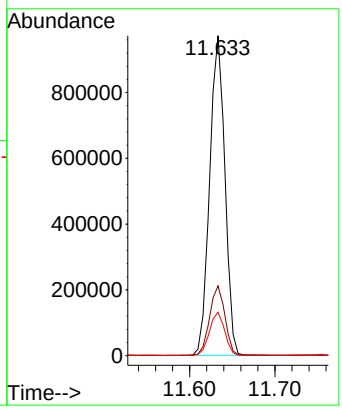




#73
Carbazole
Concen: 44.327 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:167 Resp: 120733

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.5	26.3
139	13.5	11.3	16.9



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

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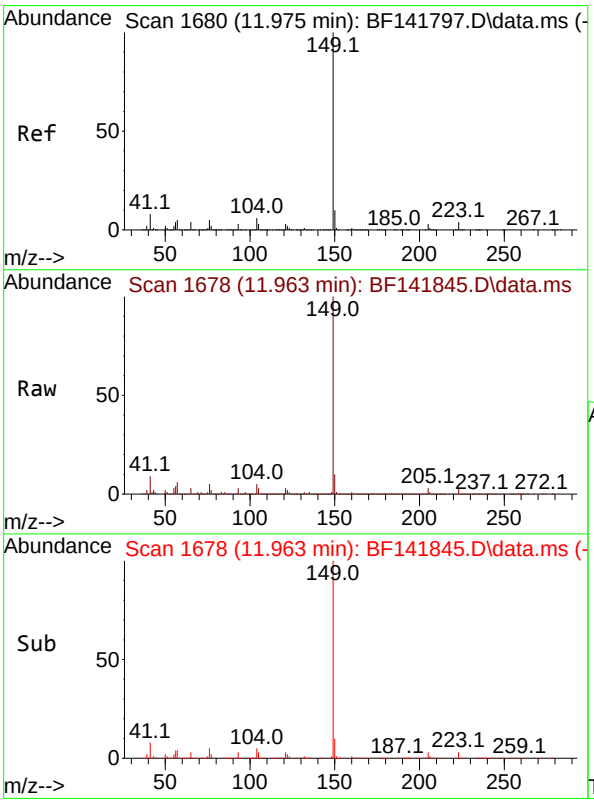
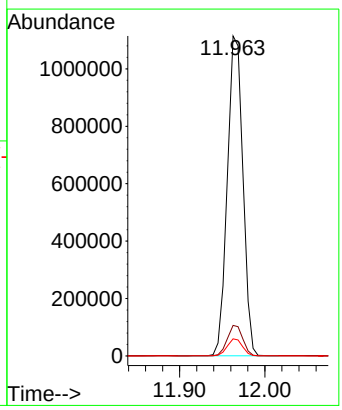
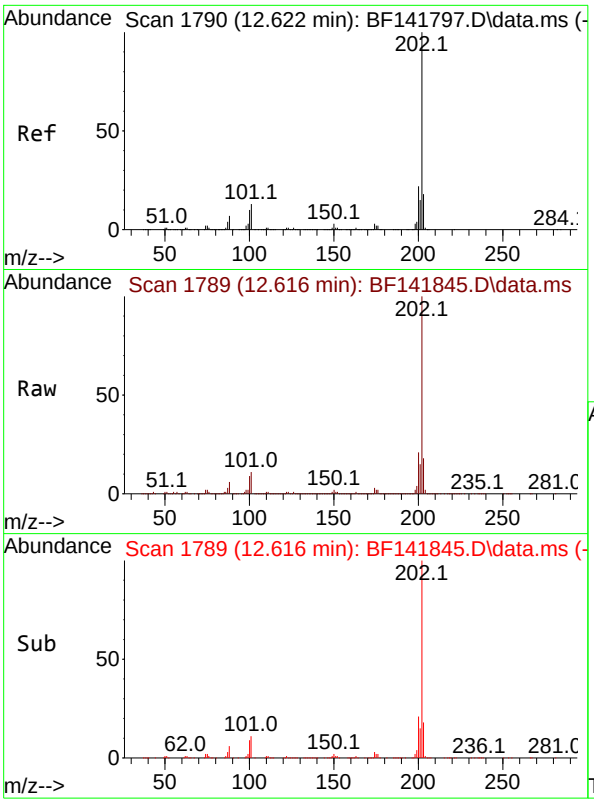


#74
Di-n-butylphthalate
Concen: 40.999 ng
RT: 11.963 min Scan# 1678
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:149 Resp: 1415465

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.7	11.5
104	5.4	4.4	6.6

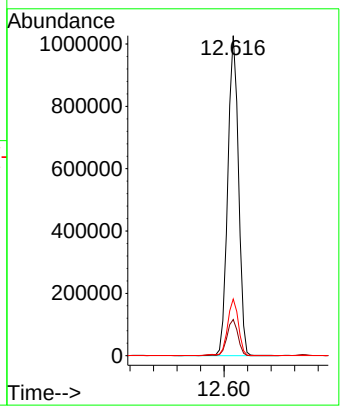




#75
Fluoranthene
Concen: 41.129 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:202 Resp: 129694

Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	32.8
203	17.7	0.0	38.0



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

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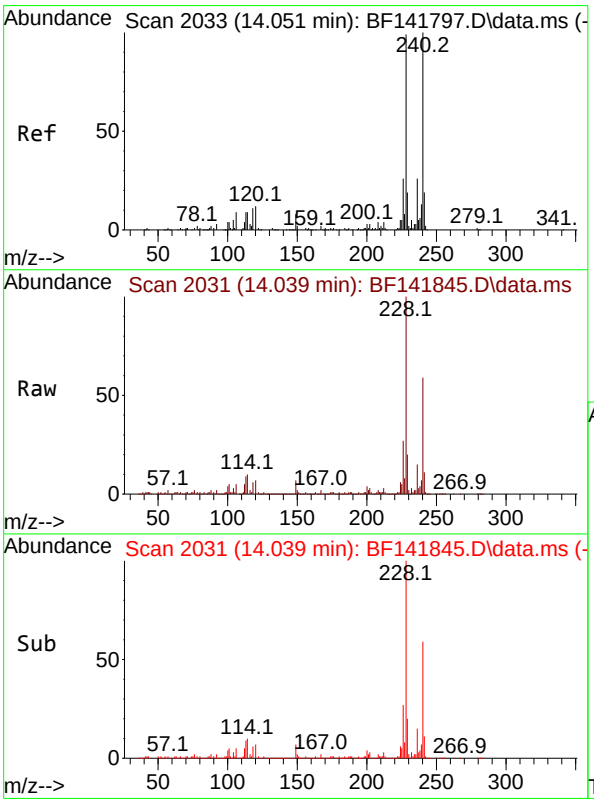
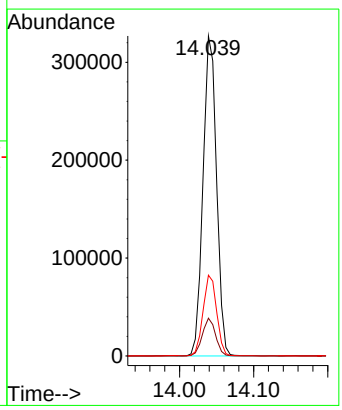
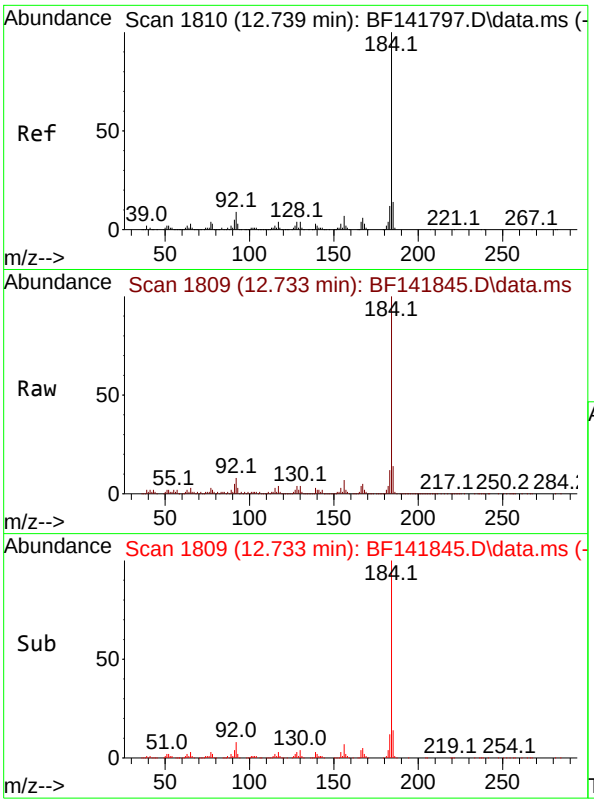


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:240 Resp: 414755

Ion	Ratio	Lower	Upper
240	100		
120	11.8	9.7	14.5
236	25.3	21.0	31.4

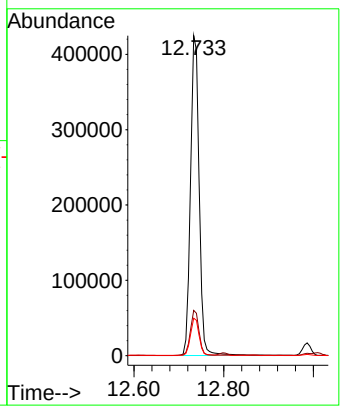




#77
Benzidine
Concen: 108.795 ng
RT: 12.733 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:184 Resp: 56794

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.6	17.4
183	11.7	9.4	14.0



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

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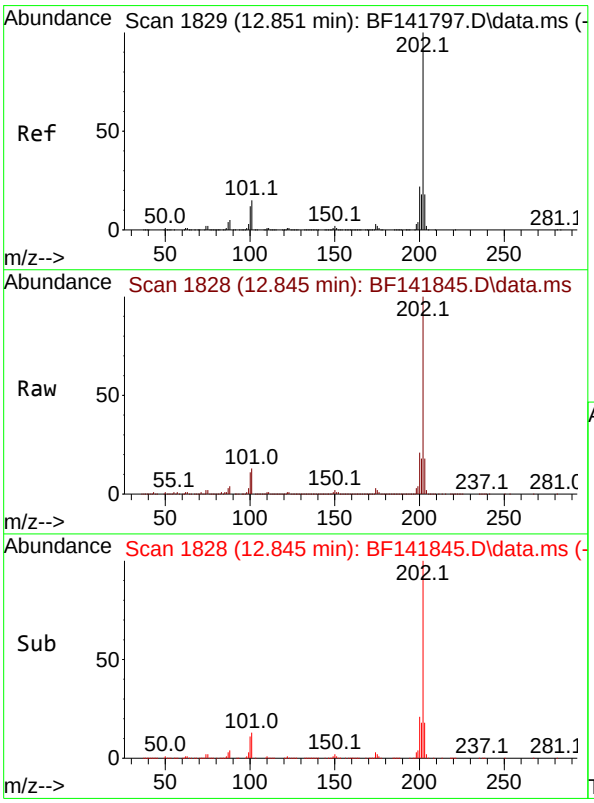
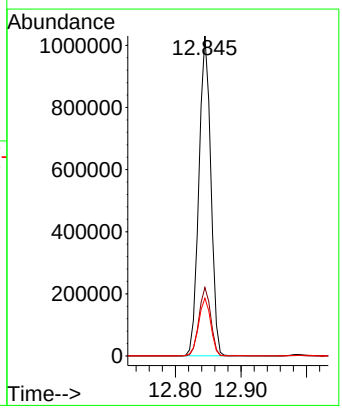
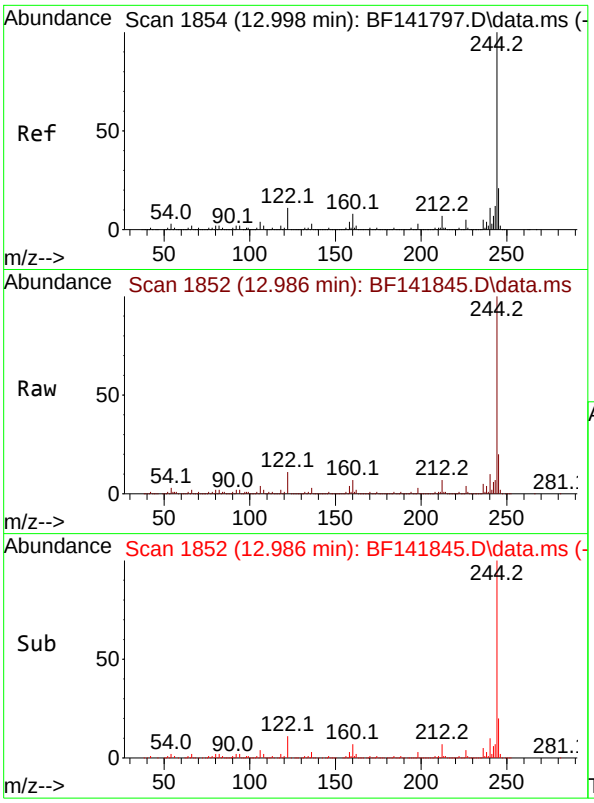


#78
Pyrene
Concen: 36.274 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:202 Resp: 1302790

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.4	26.0
203	18.1	14.6	22.0

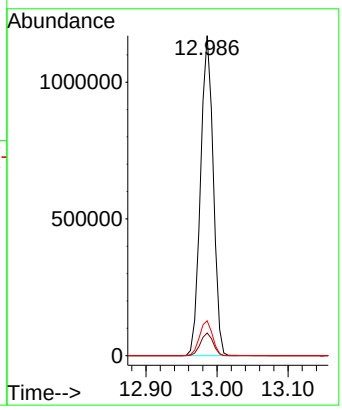




#79
Terphenyl-d14
Concen: 56.946 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:244 Resp: 145980

Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	10.9	9.0	13.6



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
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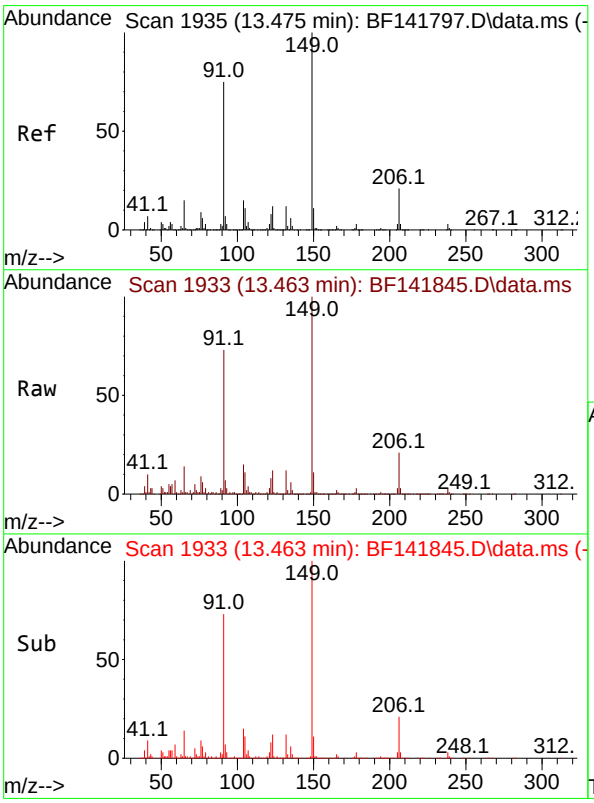
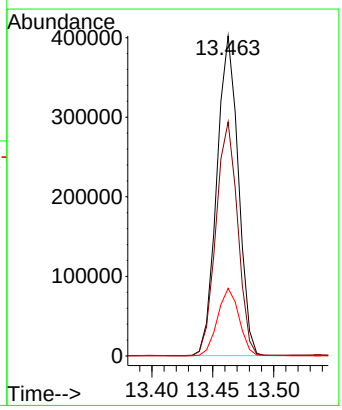
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

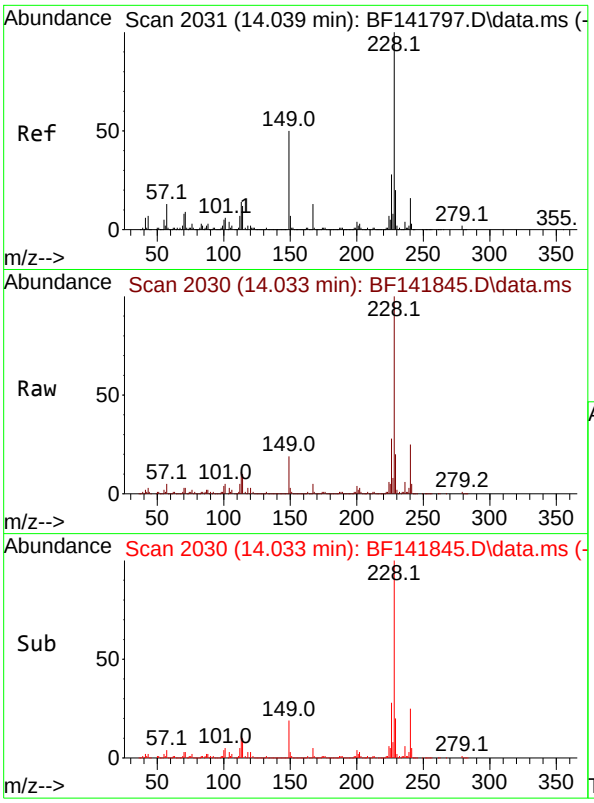


#80
Butylbenzylphthalate
Concen: 37.820 ng
RT: 13.463 min Scan# 1933
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:149 Resp: 493506

Ion	Ratio	Lower	Upper
149	100		
91	73.1	60.1	90.1
206	21.1	16.8	25.2

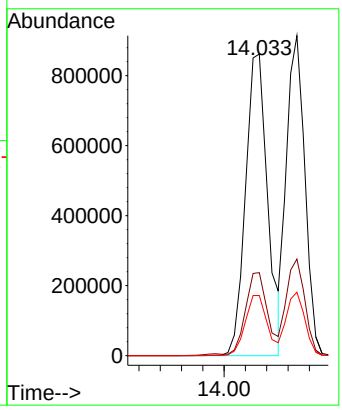




#81
Benzo(a)anthracene
Concen: 45.518 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:228 Resp: 124696

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.1	33.1
229	19.9	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
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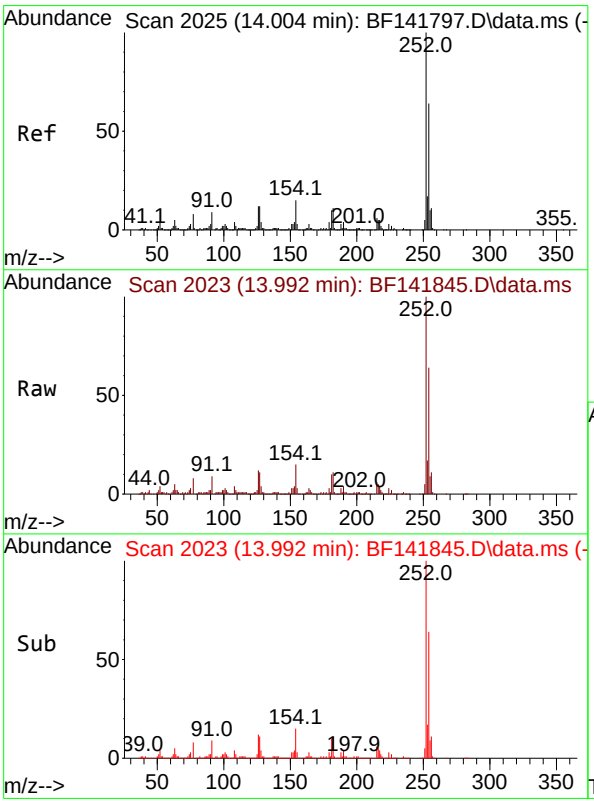
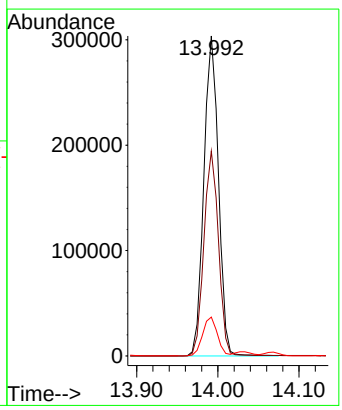
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

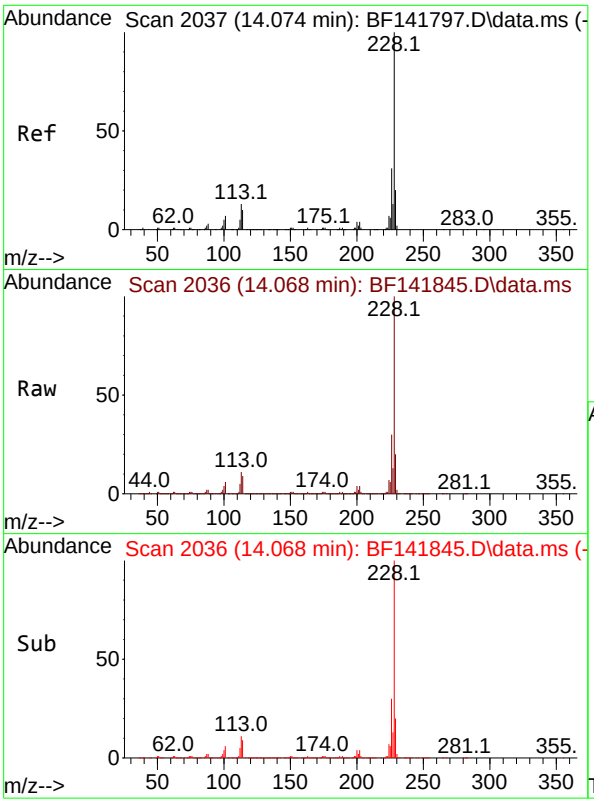


#82
3,3'-Dichlorobenzidine
Concen: 48.093 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:252 Resp: 378006

Ion	Ratio	Lower	Upper
252	100		
254	64.0	51.4	77.0
126	12.1	9.8	14.6

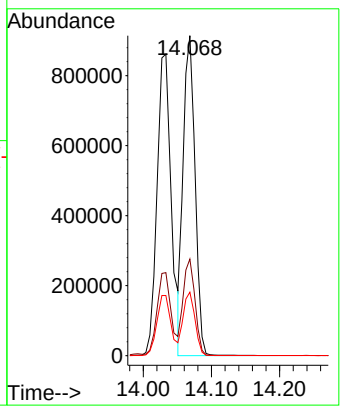




#83
Chrysene
Concen: 43.694 ng
RT: 14.068 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:228 Resp: 110343

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.6	37.0
229	19.9	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
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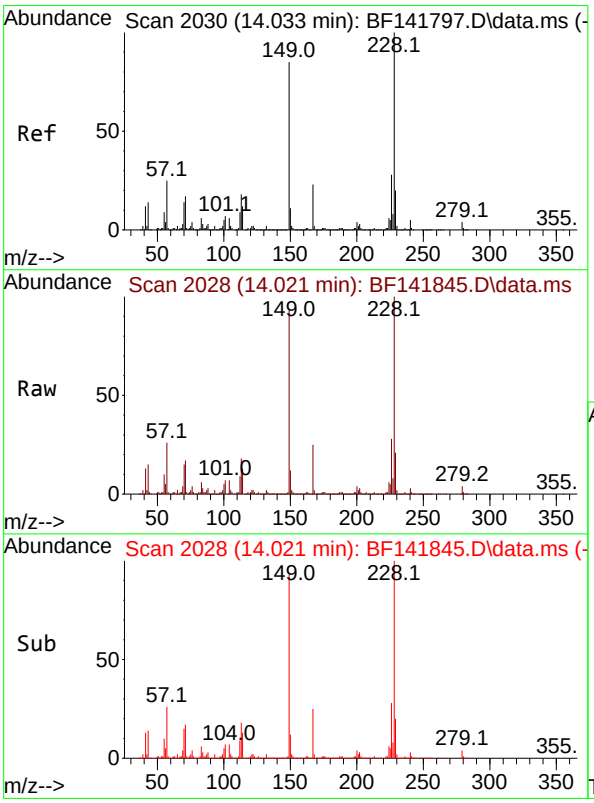
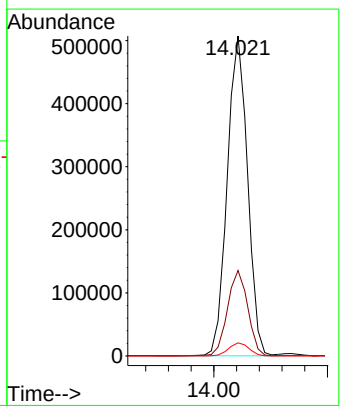
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

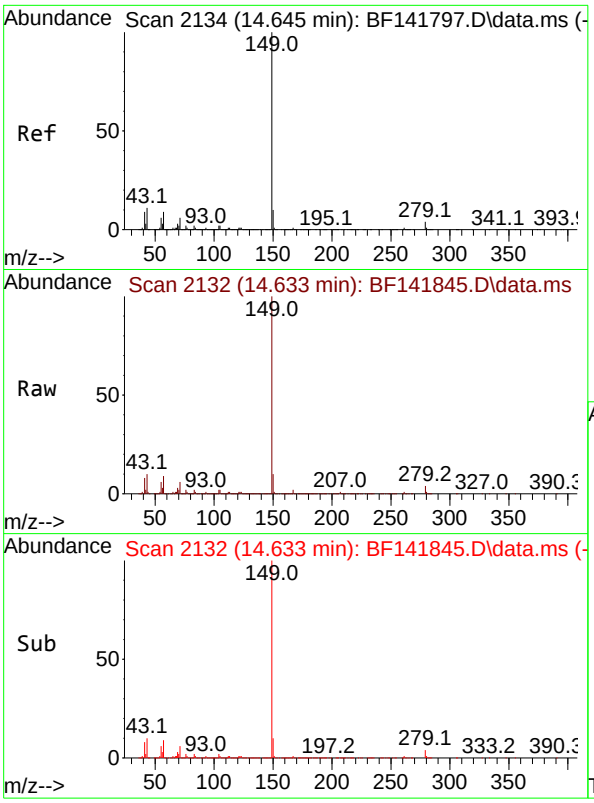


#84
Bis(2-ethylhexyl)phthalate
Concen: 38.698 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:149 Resp: 628755

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.2	31.8
279	4.1	3.3	4.9

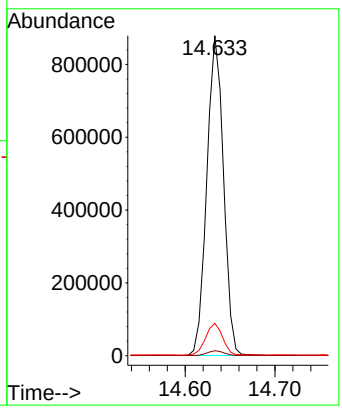




#85
Di-n-octyl phthalate
Concen: 46.687 ng
RT: 14.633 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:149 Resp: 113565

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	9.9	8.6	12.8



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

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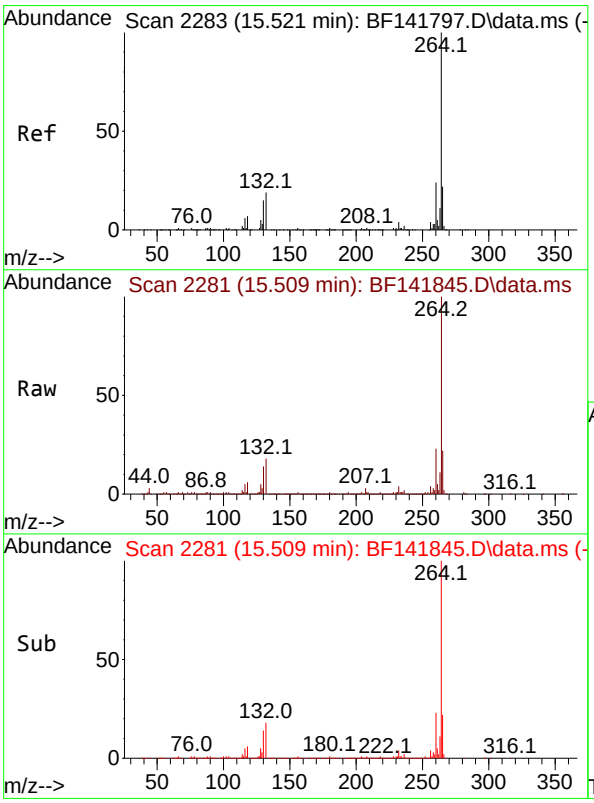
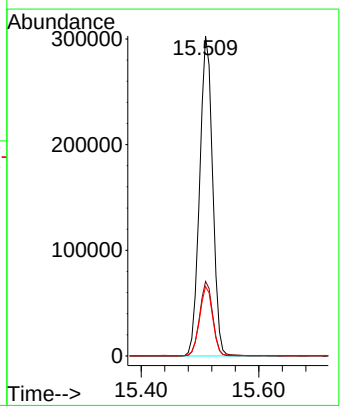
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

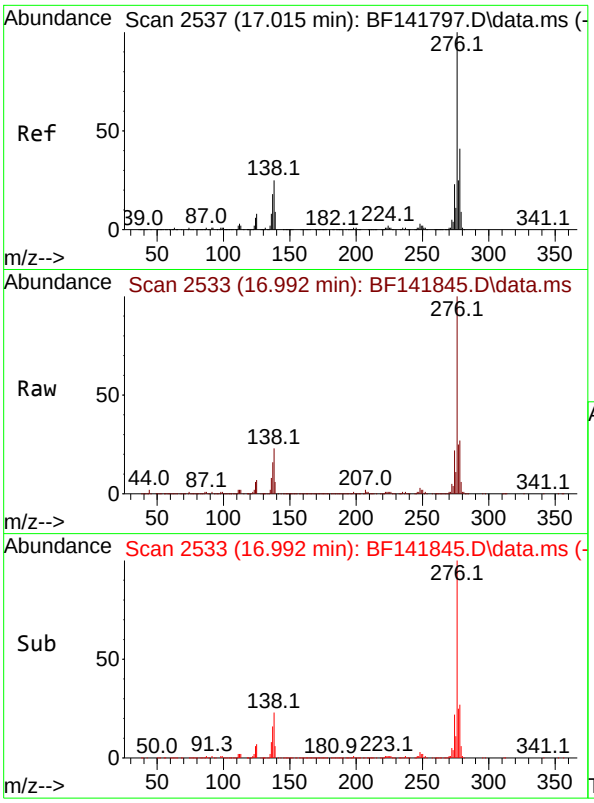


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:264 Resp: 465047

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.9	28.3
265	21.7	17.4	26.0

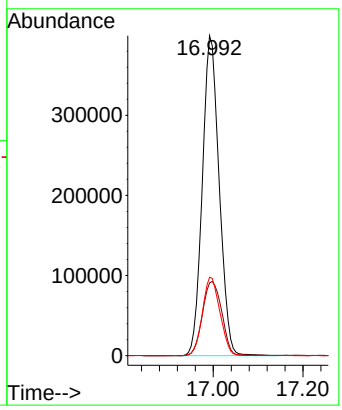




#87
Indeno(1,2,3-cd)pyrene
Concen: 35.115 ng
RT: 16.992 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:276 Resp: 103986

Ion	Ratio	Lower	Upper
276	100		
138	26.6	22.5	33.7
277	25.5	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
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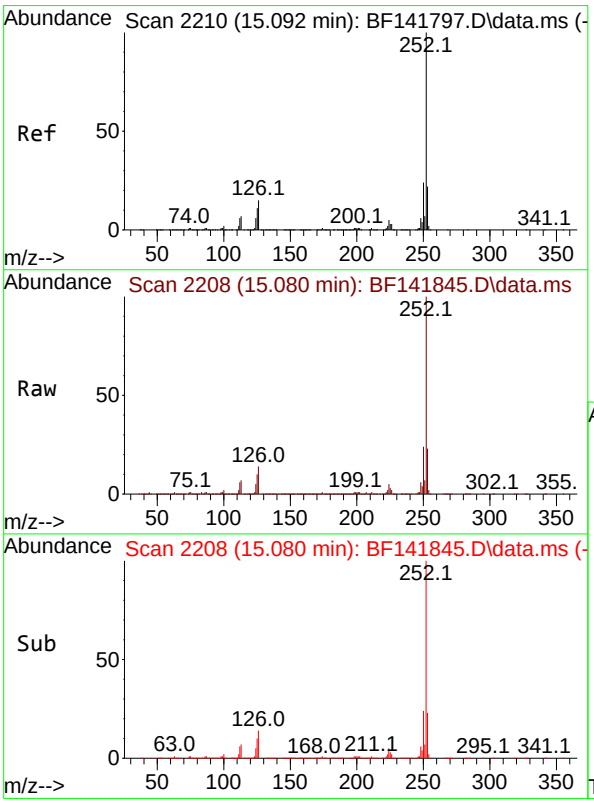
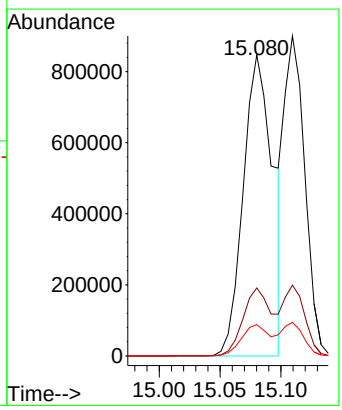
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

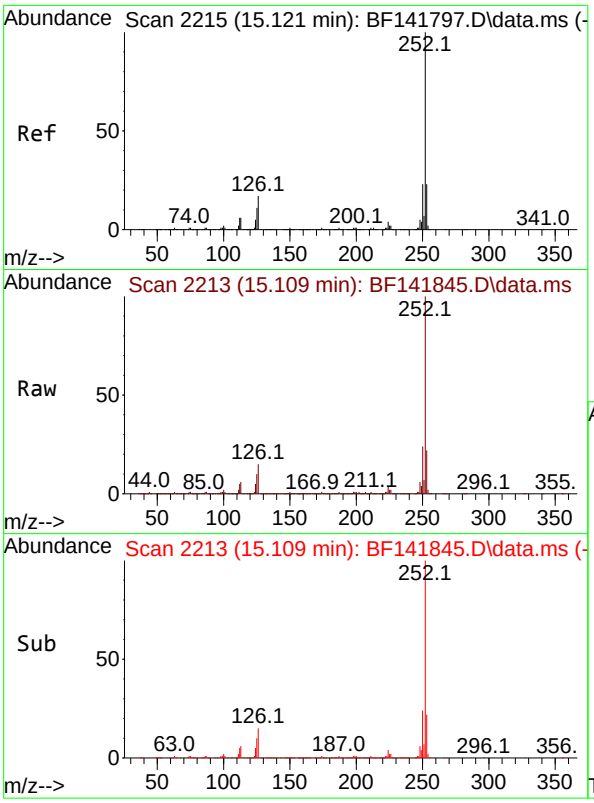


#88
Benzo(b)fluoranthene
Concen: 45.239 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:252 Resp: 1433060

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.7	26.5
125	10.4	8.6	13.0

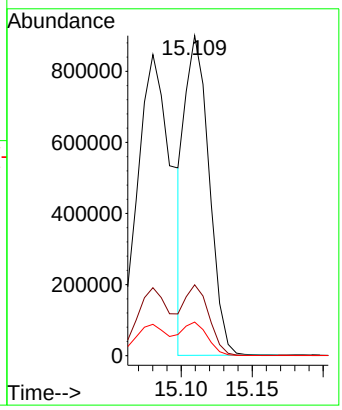




#89
Benzo(k)fluoranthene
Concen: 39.488 ng
RT: 15.109 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:252 Resp: 106320

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.8
125	10.5	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
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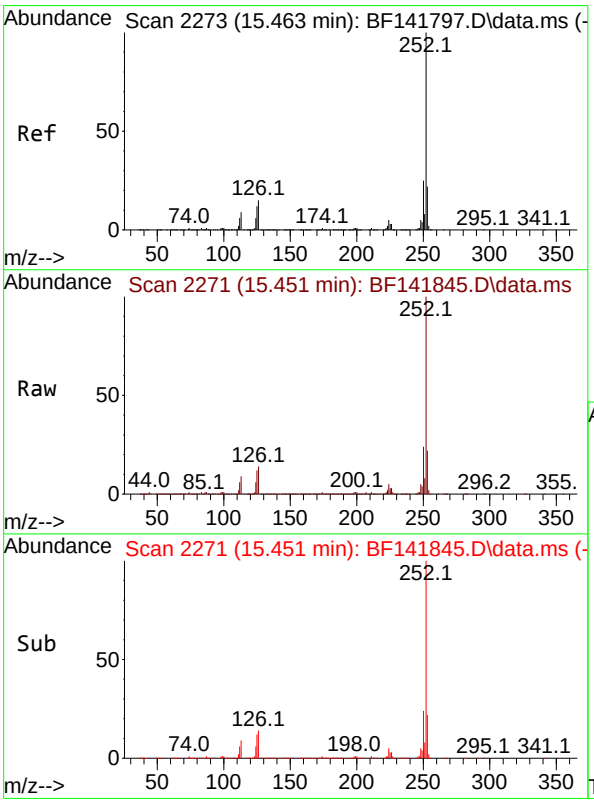
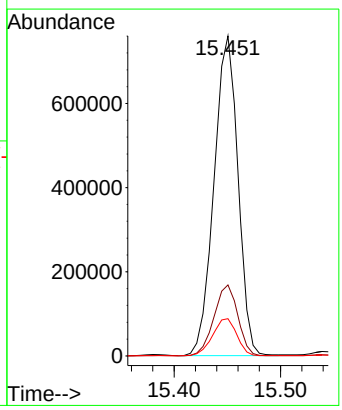
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

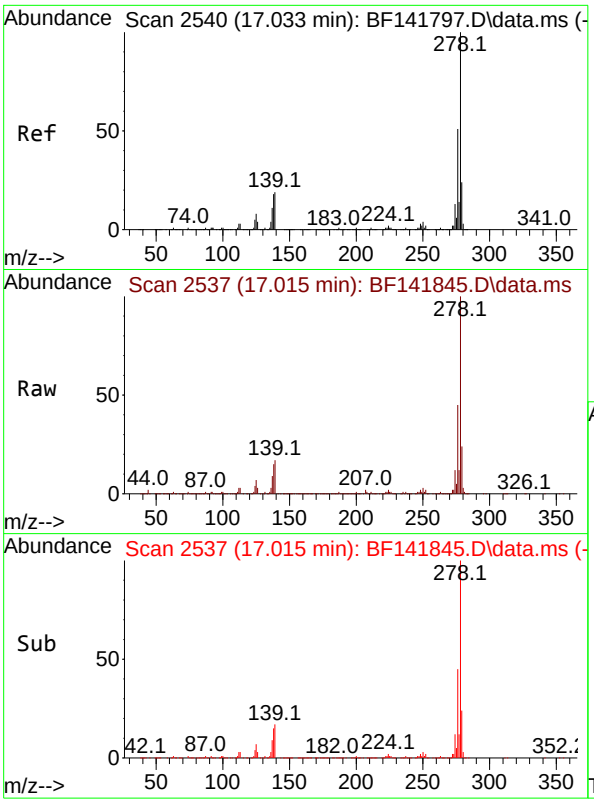


#90
Benzo(a)pyrene
Concen: 46.684 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:252 Resp: 1186012

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	11.6	9.4	14.2

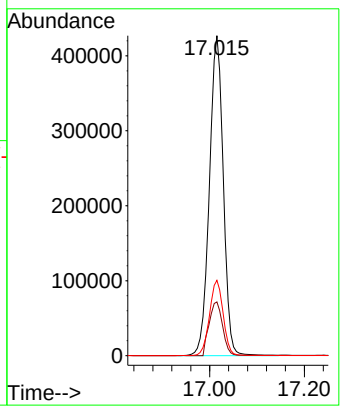




#91
Dibenzo(a,h)anthracene
Concen: 36.044 ng
RT: 17.015 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:278 Resp: 87124

Ion	Ratio	Lower	Upper
278	100		
139	16.8	14.9	22.3
279	23.6	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
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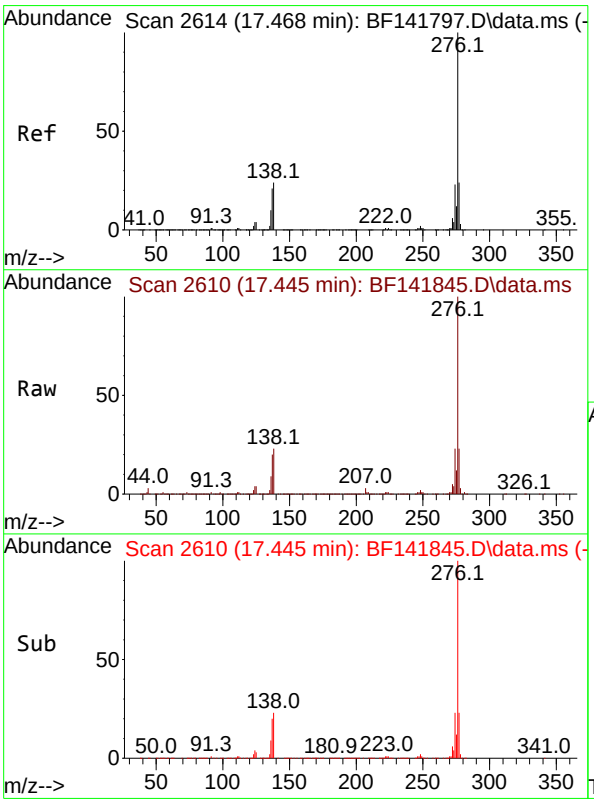
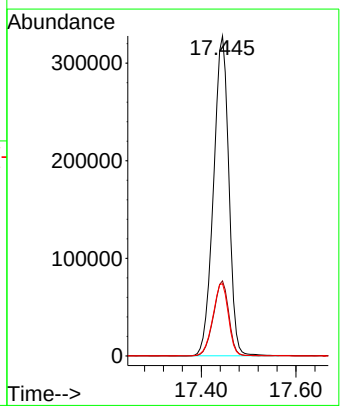
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#92
Benzo(g,h,i)perylene
Concen: 29.696 ng
RT: 17.445 min Scan# 2610
Delta R.T. -0.024 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:276 Resp: 735371

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.4	29.0
138	22.6	19.3	28.9



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Manual Integration Report

Sequence:	BF022725	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BF141794.D	Aniline	yogesh	2/28/2025 7:30:31 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC005	BF141794.D	Phenol	yogesh	2/28/2025 7:30:31 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC010	BF141795.D	Phenol	yogesh	2/28/2025 7:30:34 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC020	BF141796.D	Phenol	yogesh	2/28/2025 7:30:37 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICCC040	BF141797.D	Caprolactam	yogesh	2/28/2025 7:30:40 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC080	BF141800.D	Aniline	yogesh	2/28/2025 7:30:43 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC080	BF141800.D	Phenol	yogesh	2/28/2025 7:30:43 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BF030525	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1488-09	BF141843.D	Benzo(b)fluoranthene	anahy	3/6/2025 9:38:56 AM	Jagrut	3/6/2025 5:47:27 PM	Peak Integrated by Software
Q1487-01MS	BF141844.D	2,3,4,6-Tetrachlorophenol	anahy	3/6/2025 9:40:25 AM	Jagrut	3/6/2025 5:47:30 PM	Peak Integrated by Software
Q1487-01MS	BF141844.D	Benzoic acid	anahy	3/6/2025 9:40:25 AM	Jagrut	3/6/2025 5:47:30 PM	Peak Integrated by Software
Q1487-01MSD	BF141845.D	Benzoic acid	anahy	3/6/2025 9:41:20 AM	Jagrut	3/6/2025 5:47:33 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bf030625	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB166984BS	BF141860.D	Caprolactam	anahy	3/7/2025 8:45:51 AM	Jagrut	3/7/2025 9:42:46 AM	Peak Integrated by Software
PB166982BS	BF141862.D	Benzidine	anahy	3/7/2025 8:56:09 AM	Jagrut	3/7/2025 9:42:50 AM	Peak Integrated by Software
PB166982BS	BF141862.D	Caprolactam	anahy	3/7/2025 8:56:09 AM	Jagrut	3/7/2025 9:42:50 AM	Peak Integrated by Software
PB166982BSD	BF141863.D	Caprolactam	anahy	3/7/2025 8:56:52 AM	Jagrut	3/7/2025 9:42:52 AM	Peak Integrated by Software

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022725

Review By	yogesh	Review On	2/28/2025 7:30:58 AM		
Supervise By	mohammad	Supervise On	2/28/2025 7:32:51 AM		
SubDirectory	BF022725	HP Acquire Method	BNA_F	HP Processing Method	bf022725

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141792.D	27 Feb 2025 14:47	RC/JU	Ok
2	SSTDICC2.5	BF141793.D	27 Feb 2025 15:17	RC/JU	Ok
3	SSTDICC005	BF141794.D	27 Feb 2025 15:46	RC/JU	Ok,M
4	SSTDICC010	BF141795.D	27 Feb 2025 16:16	RC/JU	Ok,M
5	SSTDICC020	BF141796.D	27 Feb 2025 16:46	RC/JU	Ok,M
6	SSTDICCC040	BF141797.D	27 Feb 2025 17:16	RC/JU	Ok,M
7	SSTDICC050	BF141798.D	27 Feb 2025 17:46	RC/JU	Ok
8	SSTDICC060	BF141799.D	27 Feb 2025 18:15	RC/JU	Ok
9	SSTDICC080	BF141800.D	27 Feb 2025 18:45	RC/JU	Ok,M
10	SSTDICV040	BF141801.D	27 Feb 2025 19:45	RC/JU	Ok
11	PB166879TB	BF141802.D	27 Feb 2025 20:44	RC/JU	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF030525

Review By	anahy	Review On	3/6/2025 9:48:03 AM				
Supervise By	Jagrut	Supervise On	3/6/2025 5:48:04 PM				
SubDirectory	BF030525	HP Acquire Method	BNA_F		HP Processing Method	bf022725	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141834.D	05 Mar 2025 09:40	RC/JU	Ok
2	SSTDCCC040	BF141835.D	05 Mar 2025 10:09	RC/JU	Ok
3	PB166970BL	BF141836.D	05 Mar 2025 10:39	RC/JU	Ok
4	PB166970BS	BF141837.D	05 Mar 2025 11:09	RC/JU	Ok,M
5	Q1480-17DL	BF141838.D	05 Mar 2025 11:45	RC/JU	Ok
6	Q1480-01DL	BF141839.D	05 Mar 2025 12:15	RC/JU	Ok,M
7	Q1489-13	BF141840.D	05 Mar 2025 13:24	RC/JU	Ok
8	Q1488-11	BF141841.D	05 Mar 2025 13:53	RC/JU	Ok
9	Q1488-05	BF141842.D	05 Mar 2025 14:23	RC/JU	Ok
10	Q1488-09	BF141843.D	05 Mar 2025 14:52	RC/JU	Ok,M
11	Q1487-01MS	BF141844.D	05 Mar 2025 15:21	RC/JU	Ok,M
12	Q1487-01MSD	BF141845.D	05 Mar 2025 15:51	RC/JU	Ok,M
13	Q1487-01	BF141846.D	05 Mar 2025 16:21	RC/JU	Ok
14	Q1488-03	BF141847.D	05 Mar 2025 16:50	RC/JU	Ok
15	Q1485-01	BF141848.D	05 Mar 2025 17:20	RC/JU	Ok
16	Q1480-33	BF141849.D	05 Mar 2025 17:50	RC/JU	Ok
17	Q1489-09	BF141850.D	05 Mar 2025 18:20	RC/JU	Ok
18	Q1489-01	BF141851.D	05 Mar 2025 18:50	RC/JU	Ok,M
19	Q1484-01	BF141852.D	05 Mar 2025 19:20	RC/JU	Dilution
20	Q1486-01	BF141853.D	05 Mar 2025 19:50	RC/JU	Ok,M
21	Q1489-05	BF141854.D	05 Mar 2025 20:20	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF030525

Review By	anahy	Review On	3/6/2025 9:48:03 AM				
Supervise By	Jagrut	Supervise On	3/6/2025 5:48:04 PM				
SubDirectory	BF030525	HP Acquire Method	BNA_F		HP Processing Method	bf022725	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1481-01	BF141855.D	05 Mar 2025 20:50	RC/JU	Ok
23	Q1482-01	BF141856.D	05 Mar 2025 21:20	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF030625

Review By	anahy	Review On	3/7/2025 9:16:56 AM				
Supervise By	Jagrut	Supervise On	3/7/2025 9:43:33 AM				
SubDirectory	BF030625	HP Acquire Method	BNA_F		HP Processing Method	bf022725	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141857.D	06 Mar 2025 08:34	RC/JU	Ok
2	SSTDCCC040	BF141858.D	06 Mar 2025 09:52	RC/JU	Ok
3	PB166984BL	BF141859.D	06 Mar 2025 10:22	RC/JU	Ok
4	PB166984BS	BF141860.D	06 Mar 2025 10:52	RC/JU	Ok,M
5	PB166982BL	BF141861.D	06 Mar 2025 11:21	RC/JU	Ok
6	PB166982BS	BF141862.D	06 Mar 2025 11:51	RC/JU	Ok,M
7	PB166982BSD	BF141863.D	06 Mar 2025 12:21	RC/JU	Ok,M
8	Q1488-07	BF141864.D	06 Mar 2025 13:01	RC/JU	Ok
9	Q1488-01	BF141865.D	06 Mar 2025 13:31	RC/JU	Ok
10	Q1489-05	BF141866.D	06 Mar 2025 14:01	RC/JU	Ok,M
11	Q1478-01	BF141867.D	06 Mar 2025 14:31	RC/JU	Ok
12	Q1478-07	BF141868.D	06 Mar 2025 15:01	RC/JU	Ok
13	Q1478-05	BF141869.D	06 Mar 2025 15:30	RC/JU	Ok
14	Q1488-14	BF141870.D	06 Mar 2025 16:00	RC/JU	Ok
15	Q1488-13	BF141871.D	06 Mar 2025 16:29	RC/JU	Ok
16	Q1478-03	BF141872.D	06 Mar 2025 16:59	RC/JU	Ok
17	Q1484-06	BF141873.D	06 Mar 2025 17:29	RC/JU	Ok
18	Q1492-01	BF141874.D	06 Mar 2025 17:59	RC/JU	Ok
19	Q1492-01MS	BF141875.D	06 Mar 2025 18:29	RC/JU	Ok,M
20	Q1492-01MSD	BF141876.D	06 Mar 2025 18:58	RC/JU	Ok,M
21	Q1494-05	BF141877.D	06 Mar 2025 19:28	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF030625

Review By	anahy	Review On	3/7/2025 9:16:56 AM				
Supervise By	Jagrut	Supervise On	3/7/2025 9:43:33 AM				
SubDirectory	BF030625	HP Acquire Method	BNA_F		HP Processing Method	bf022725	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1494-07	BF141878.D	06 Mar 2025 19:58	RC/JU	Ok
23	Q1490-01	BF141879.D	06 Mar 2025 20:27	RC/JU	Ok,M
24	Q1484-01DL	BF141880.D	06 Mar 2025 20:57	RC/JU	Not Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022725

Review By	yogesh	Review On	2/28/2025 7:30:58 AM		
Supervise By	mohammad	Supervise On	2/28/2025 7:32:51 AM		
SubDirectory	BF022725	HP Acquire Method	BNA_F	HP Processing Method	bf022725

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141792.D	27 Feb 2025 14:47		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF141793.D	27 Feb 2025 15:17		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF141794.D	27 Feb 2025 15:46	Compound #32,54,65,77 removed from 5ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BF141795.D	27 Feb 2025 16:16	Compound #26,32,48,51,53,57,65 Kept on LR and Compound #54 Kept on QR	RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF141796.D	27 Feb 2025 16:46	The Calibration is Fail for Com#77	RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF141797.D	27 Feb 2025 17:16	The Calibration is Good For 8270E, 8270 DOD Except com#77 and 625.1 Method Except for Com#77	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BF141798.D	27 Feb 2025 17:46		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BF141799.D	27 Feb 2025 18:15		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF141800.D	27 Feb 2025 18:45	Compound #69 removed from 80ppm	RC/JU	Ok,M
10	SSTDICV040	ICVBF022725	BF141801.D	27 Feb 2025 19:45	ICV Fail for Com#56,62,77 for DOD and ICV Fail for Com#77 for NON- DOD	RC/JU	Ok
11	PB166879TB	PB166879TB	BF141802.D	27 Feb 2025 20:44		RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF030525

Review By	anahy	Review On	3/6/2025 9:48:03 AM		
Supervise By	Jagrut	Supervise On	3/6/2025 5:48:04 PM		
SubDirectory	BF030525	HP Acquire Method	BNA_F	HP Processing Method	bf022725

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141834.D	05 Mar 2025 09:40		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141835.D	05 Mar 2025 10:09		RC/JU	Ok
3	PB166970BL	PB166970BL	BF141836.D	05 Mar 2025 10:39		RC/JU	Ok
4	PB166970BS	PB166970BS	BF141837.D	05 Mar 2025 11:09		RC/JU	Ok,M
5	Q1480-17DL	TP-3DL	BF141838.D	05 Mar 2025 11:45		RC/JU	Ok
6	Q1480-01DL	TP-1DL	BF141839.D	05 Mar 2025 12:15		RC/JU	Ok,M
7	Q1489-13	TP-4	BF141840.D	05 Mar 2025 13:24		RC/JU	Ok
8	Q1488-11	ENV-104-SB02	BF141841.D	05 Mar 2025 13:53		RC/JU	Ok
9	Q1488-05	ENV-102-SB01	BF141842.D	05 Mar 2025 14:23		RC/JU	Ok
10	Q1488-09	ENV-104-SB01	BF141843.D	05 Mar 2025 14:52		RC/JU	Ok,M
11	Q1487-01MS	DN-B-42MS	BF141844.D	05 Mar 2025 15:21		RC/JU	Ok,M
12	Q1487-01MSD	DN-B-42MSD	BF141845.D	05 Mar 2025 15:51		RC/JU	Ok,M
13	Q1487-01	DN-B-42	BF141846.D	05 Mar 2025 16:21		RC/JU	Ok
14	Q1488-03	ENV-101-SB02	BF141847.D	05 Mar 2025 16:50		RC/JU	Ok
15	Q1485-01	DN-B-41	BF141848.D	05 Mar 2025 17:20		RC/JU	Ok
16	Q1480-33	TP-3-WATER-SAMPLE	BF141849.D	05 Mar 2025 17:50		RC/JU	Ok
17	Q1489-09	TP-3	BF141850.D	05 Mar 2025 18:20		RC/JU	Ok
18	Q1489-01	TP-1	BF141851.D	05 Mar 2025 18:50		RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF030525

Review By	anahy	Review On	3/6/2025 9:48:03 AM		
Supervise By	Jagrut	Supervise On	3/6/2025 5:48:04 PM		
SubDirectory	BF030525	HP Acquire Method	BNA_F	HP Processing Method	bf022725

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1484-01	TR-OTR-COMP-01	BF141852.D	05 Mar 2025 19:20	Need 2X Dilution	RC/JU	Dilution
20	Q1486-01	DN-B-40	BF141853.D	05 Mar 2025 19:50		RC/JU	Ok,M
21	Q1489-05	TP-2	BF141854.D	05 Mar 2025 20:20	Internal Standard Fail	RC/JU	ReRun
22	Q1481-01	WC-K1311	BF141855.D	05 Mar 2025 20:50		RC/JU	Ok
23	Q1482-01	OR-03-030425	BF141856.D	05 Mar 2025 21:20	Internal Standard Fail	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF030625

Review By	anahy	Review On	3/7/2025 9:16:56 AM		
Supervise By	Jagrut	Supervise On	3/7/2025 9:43:33 AM		
SubDirectory	BF030625	HP Acquire Method	BNA_F	HP Processing Method	bf022725

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141857.D	06 Mar 2025 08:34		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141858.D	06 Mar 2025 09:52		RC/JU	Ok
3	PB166984BL	PB166984BL	BF141859.D	06 Mar 2025 10:22		RC/JU	Ok
4	PB166984BS	PB166984BS	BF141860.D	06 Mar 2025 10:52		RC/JU	Ok,M
5	PB166982BL	PB166982BL	BF141861.D	06 Mar 2025 11:21		RC/JU	Ok
6	PB166982BS	PB166982BS	BF141862.D	06 Mar 2025 11:51		RC/JU	Ok,M
7	PB166982BSD	PB166982BSD	BF141863.D	06 Mar 2025 12:21		RC/JU	Ok,M
8	Q1488-07	ENV-102-SB02	BF141864.D	06 Mar 2025 13:01		RC/JU	Ok
9	Q1488-01	ENV-101-SB01	BF141865.D	06 Mar 2025 13:31		RC/JU	Ok
10	Q1489-05	TP-2	BF141866.D	06 Mar 2025 14:01		RC/JU	Ok,M
11	Q1478-01	IDW-AQ-MW-19B-COM	BF141867.D	06 Mar 2025 14:31		RC/JU	Ok
12	Q1478-07	IDW-AQ-IW-03-COMP-	BF141868.D	06 Mar 2025 15:01		RC/JU	Ok
13	Q1478-05	IDW-AQ-IW-02-COMP-	BF141869.D	06 Mar 2025 15:30		RC/JU	Ok
14	Q1488-14	ENV-104-GW01	BF141870.D	06 Mar 2025 16:00		RC/JU	Ok
15	Q1488-13	ENV-102-GW01	BF141871.D	06 Mar 2025 16:29		RC/JU	Ok
16	Q1478-03	IDW-AQ-IW-01-COMP-	BF141872.D	06 Mar 2025 16:59		RC/JU	Ok
17	Q1484-06	TR-OTR-COMP-01	BF141873.D	06 Mar 2025 17:29		RC/JU	Ok
18	Q1492-01	RHL1PXI	BF141874.D	06 Mar 2025 17:59		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF030625

Review By	anahy	Review On	3/7/2025 9:16:56 AM		
Supervise By	Jagrut	Supervise On	3/7/2025 9:43:33 AM		
SubDirectory	BF030625	HP Acquire Method	BNA_F	HP Processing Method	bf022725

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1492-01MS	RHL1PXIMS	BF141875.D	06 Mar 2025 18:29		RC/JU	Ok,M
20	Q1492-01MSD	RHL1PXIMSD	BF141876.D	06 Mar 2025 18:58		RC/JU	Ok,M
21	Q1494-05	SOIL	BF141877.D	06 Mar 2025 19:28		RC/JU	Ok
22	Q1494-07	SOIL-COMP	BF141878.D	06 Mar 2025 19:58		RC/JU	Ok
23	Q1490-01	CLAY-SLUDGE-DRUM	BF141879.D	06 Mar 2025 20:27		RC/JU	Ok,M
24	Q1484-01DL	TR-OTR-COMP-01DL	BF141880.D	06 Mar 2025 20:57	Out Of Tune Time	RC/JU	Not Ok

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 3/5/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:40
In Date: 03/04/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:35
Out Date: 03/05/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134889

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
Q1480-01	TP-1	1	1.13	8.86	9.99	8.95	88.3	
Q1480-02	TP-1-E2	2	1.12	8.86	9.98	9.14	90.5	
Q1480-03	TP-1-E3	3	1.15	8.76	9.91	8.11	79.5	
Q1480-04	TP-1-E4	4	1.15	8.48	9.63	8.73	89.4	
Q1480-05	TP-1-E5	5	1.15	8.82	9.97	8.71	85.7	
Q1480-06	TP-1-E6	6	1.15	8.81	9.96	8.93	88.3	
Q1480-07	TP-1-E7	7	1.14	8.71	9.85	8.61	85.8	
Q1480-09	TP-2	8	1.12	8.74	9.86	8.56	85.1	
Q1480-10	TP-2-E2	9	1.14	8.82	9.96	8.53	83.8	
Q1480-11	TP-2-E3	10	1.15	8.50	9.65	8.62	87.9	
Q1480-12	TP-2-E4	11	1.14	8.76	9.9	8.8	87.4	
Q1480-13	TP-2-E5	12	1.15	8.82	9.97	8.92	88.1	
Q1480-14	TP-2-E6	13	1.16	8.82	9.98	8.95	88.3	
Q1480-15	TP-2-E7	14	1.12	8.73	9.85	8.88	88.9	
Q1480-17	TP-3	15	1.15	8.83	9.98	9.11	90.1	
Q1480-18	TP-3-E2	16	1.15	8.83	9.98	8.89	87.7	
Q1480-19	TP-3-E3	17	1.13	8.58	9.71	8.67	87.9	
Q1480-20	TP-3-E4	18	1.15	8.61	9.76	8.51	85.5	
Q1480-21	TP-3-E5	19	1.15	8.80	9.95	8.8	86.9	
Q1480-22	TP-3-E6	20	1.15	8.84	9.99	8.92	87.9	
Q1480-23	TP-3-E7	21	1.19	8.63	9.82	8.75	87.6	
Q1480-25	TP-4	22	1.14	8.83	9.97	9.07	89.8	
Q1480-26	TP-4-E2	23	1.17	8.80	9.97	9.32	92.6	
Q1480-27	TP-4-E3	24	1.13	8.76	9.89	8.95	89.3	
Q1480-28	TP-4-E4	25	1.16	8.81	9.97	9.13	90.5	
Q1480-29	TP-4-E5	26	1.12	8.67	9.79	8.97	90.5	
Q1480-30	TP-4-E6	27	1.15	8.83	9.98	9.34	92.8	
Q1480-31	TP-4-E7	28	1.11	8.62	9.73	8.88	90.1	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 3/5/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:40
In Date: 03/04/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:35
Out Date: 03/05/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134889

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
Q1481-01	WC-K1311	29	1.15	8.70	9.85	9.00	90.2	
Q1482-01	OR-03-030425	30	1.15	8.48	9.63	8.85	90.8	
Q1482-02	OR-03-030425-E2	31	1.15	8.83	9.98	9.17	90.8	
Q1484-01	TR-OTR-COMP-01	35	1.15	8.83	9.98	9.14	90.5	
Q1484-02	TR-OTR-VOC-01	36	1.15	8.81	9.96	9.22	91.6	
Q1484-03	TR-OTR-01	37	1.12	8.63	9.75	8.83	89.3	
Q1484-04	TR-OTR-02	38	1.15	8.78	9.93	8.99	89.3	
Q1484-05	TR-OTR-03	39	1.14	8.63	9.77	8.6	86.4	
Q1485-01	DN-B-41	32	1.16	8.53	9.69	8.25	83.1	
Q1486-01	DN-B-40	33	1.16	8.40	9.56	9.02	93.6	
Q1487-01	DN-B-42	34	1.13	8.84	9.97	8.92	88.1	
Q1488-01	ENV-101-SB01	40	1.13	8.45	9.58	8.61	88.5	
Q1488-03	ENV-101-SB02	41	1.15	8.82	9.97	9.14	90.6	
Q1488-05	ENV-102-SB01	42	1.16	8.82	9.98	8.72	85.7	
Q1488-07	ENV-102-SB02	43	1.13	8.55	9.68	7.98	80.1	
Q1488-09	ENV-104-SB01	44	1.12	8.50	9.62	8.14	82.6	
Q1488-11	ENV-104-SB02	45	1.14	8.85	9.99	8.32	81.1	
Q1489-01	TP-1	46	1.13	8.86	9.99	8.18	79.6	
Q1489-02	TP-1-E2	47	1.15	8.83	9.98	8.17	79.5	
Q1489-03	TP-1-E3	48	1.13	8.70	9.83	7.68	75.3	
Q1489-05	TP-2	49	1.11	8.76	9.87	6.93	66.4	
Q1489-06	TP-2-E2	50	1.16	8.63	9.79	7.38	72.1	
Q1489-07	TP-2-E3	51	1.15	8.83	9.98	7.53	72.3	
Q1489-09	TP-3	52	1.19	8.58	9.77	7.71	76.0	
Q1489-10	TP-3-E2	53	1.15	8.84	9.99	8.7	85.4	
Q1489-11	TP-3-E3	54	1.15	8.38	9.53	7.9	80.5	
Q1489-13	TP-4	55	1.16	8.81	9.97	8.57	84.1	
Q1489-14	TP-4-E2	56	1.16	8.82	9.98	8.46	82.8	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 3/5/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:40
In Date: 03/04/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:35
Out Date: 03/05/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134889

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
Q1489-15	TP-4-E3	57	1.16	8.50	9.66	8.02	80.7	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

UB134889

WorkList Name : %1-030425 **WorkList ID :** 187994 **Department :** Wet-Chemistry **Date :** 03-04-2025 07:58:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1480-01	TP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-02	TP-1-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-03	TP-1-E3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-04	TP-1-E4	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-05	TP-1-E5	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-06	TP-1-E6	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-07	TP-1-E7	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-09	TP-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-10	TP-2-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-11	TP-2-E3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-12	TP-2-E4	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-13	TP-2-E5	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-14	TP-2-E6	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-15	TP-2-E7	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-17	TP-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-18	TP-3-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-19	TP-3-E3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-20	TP-3-E4	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-21	TP-3-E5	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-22	TP-3-E6	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-23	TP-3-E7	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO

Date/Time 03/04/25 16:15

Raw Sample Received by: JD (WC)

Raw Sample Relinquished by: CP SM

Date/Time 03/04/25 18:00

Raw Sample Received by: CP SM

Raw Sample Relinquished by: JD (WC)

WORKLIST(Hardcopy Internal Chain)

VB134889

WorkList Name : %1-030425 **WorkList ID :** 187994 **Department :** Wet-Chemistry **Date :** 03-04-2025 07:58:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1480-25	TP-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-26	TP-4-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-27	TP-4-E3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-28	TP-4-E4	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-29	TP-4-E5	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-30	TP-4-E6	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-31	TP-4-E7	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1481-01	WC-K1311	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1482-01	OR-03-030425	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	03/04/2025	Chemtech -SO
Q1482-02	OR-03-030425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	03/04/2025	Chemtech -SO
Q1484-01	TR-OTR-COMP-01	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	03/04/2025	Chemtech -SO
Q1484-02	TR-OTR-VOC-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	03/04/2025	Chemtech -SO
Q1484-03	TR-OTR-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	03/04/2025	Chemtech -SO
Q1484-04	TR-OTR-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	03/04/2025	Chemtech -SO
Q1484-05	TR-OTR-03	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	03/04/2025	Chemtech -SO
Q1485-01	DN-B-41	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	03/04/2025	Chemtech -SO
Q1486-01	DN-B-40	Solid	Percent Solids	Cool 4 deg C	JPCL01	I11	03/04/2025	Chemtech -SO
Q1487-01	DN-B-42	Solid	Percent Solids	Cool 4 deg C	JPCL01	I11	03/04/2025	Chemtech -SO
Q1488-01	ENV-101-SB01	Solid	Percent Solids	Cool 4 deg C	JPCL01	I11	03/04/2025	Chemtech -SO
Q1488-03	ENV-101-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	H31	03/04/2025	Chemtech -SO
Q1488-05	ENV-102-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	H31	03/04/2025	Chemtech -SO

Date/Time 03/04/25 16:15

Raw Sample Received by: SB (WC)

Raw Sample Relinquished by: CP SM

Date/Time 03/04/25 18:00

Raw Sample Received by: CP SM

Raw Sample Relinquished by: SB (WC)

WORKLIST(Hardcopy Internal Chain)

1B134889

WorkList Name : %1-030425 **WorkList ID :** 187994 **Department :** Wet-Chemistry **Date :** 03-04-2025 07:58:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1488-07	ENV-102-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	H31	03/04/2025	Chemtech -SO
Q1488-09	ENV-104-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	H31	03/04/2025	Chemtech -SO
Q1488-11	ENV-104-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	H31	03/04/2025	Chemtech -SO
Q1489-01	TP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO
Q1489-02	TP-1-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO
Q1489-03	TP-1-E3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO
Q1489-05	TP-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO
Q1489-06	TP-2-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO
Q1489-07	TP-2-E3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO
Q1489-09	TP-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO
Q1489-10	TP-3-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO
Q1489-11	TP-3-E3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO
Q1489-13	TP-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO
Q1489-14	TP-4-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO
Q1489-15	TP-4-E3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO

Date/Time 03/04/25 16:15

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 03/04/25 1840

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166982

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 03/05/2025

Extraction Start Time : 08:35

Extraction End Date : 03/05/2025

Extraction End Time : 13:35

Concentration By: EH

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	SP6720
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3878
Baked Na2SO4	N/A	EP2590
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
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# 2210673. pH Adjusted<2 with 1:1 H2SO4 & >11 with 10 N NaOH.
Q1488-13,14 Limited volume received.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/5/25	RS (Ext-Lab)	RC/SVOC
13:40	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166982

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 03/05/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166982BL	SBLK982	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1			SEP-1
PB166982BS	SLCS982	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1			2
PB166982BSD	SLCSD982	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1			3
Q1478-01	IDW-AQ-MW-19B-COMP-022825	SVOC-TCL BNA -20	970	6	RUPESH	ritesh	1	C		4
Q1478-03	IDW-AQ-IW-01-COMP-022825	SVOC-TCL BNA -20	960	11	RUPESH	ritesh	1	C		5
Q1478-05	IDW-AQ-IW-02-COMP-022825	SVOC-TCL BNA -20	940	6	RUPESH	ritesh	1	C		6
Q1478-07	IDW-AQ-IW-03-COMP-022825	SVOC-TCL BNA -20	960	6	RUPESH	ritesh	1	c		7
Q1480-33	TP-3-WATER-SAMPLE	SVOC-TCL BNA -20	990	6	RUPESH	ritesh	1	M		8
Q1488-13	ENV-102-GW01	SVOC-TCL BNA -20	700	6	RUPESH	ritesh	1	F		9
Q1488-14	ENV-104-GW01	SVOC-TCL BNA -20	570	6	RUPESH	ritesh	1	F		10

RS
3/5

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

166982
8:23

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1478BN **WorkList ID :** 188023 **Department :** Extraction **Date :** 03-05-2025 08:23:19

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1478-01	IDW-AQ-MW-19B-COMP-0228:	Water	SVOC-TCL BNA -20	Cool 4 deg C	JACO05	H31	02/28/2025	8270E
Q1478-03	IDW-AQ-IW-01-COMP-022825	Water	SVOC-TCL BNA -20	Cool 4 deg C	JACO05	H31	02/28/2025	8270E
Q1478-05	IDW-AQ-IW-02-COMP-022825	Water	SVOC-TCL BNA -20	Cool 4 deg C	JACO05	H31	02/28/2025	8270E
Q1478-07	IDW-AQ-IW-03-COMP-022825	Water	SVOC-TCL BNA -20	Cool 4 deg C	JACO05	H31	02/28/2025	8270E
Q1480-33	TP-3-WATER-SAMPLE	Water	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I11	03/03/2025	8270E
Q1488-13	ENV-102-GW01	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-14	ENV-104-GW01	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E

Date/Time 3/5/25 8:30
Raw Sample Received by: RS (Ext-lab)
Raw Sample Relinquished by: CR SM

Date/Time 3/5/25 9:05
Raw Sample Received by: CR SM
Raw Sample Relinquished by: RS (Ext-lab)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166984

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	03/05/2025
Matrix :	Solid			**Extraction Start Time :**	09:40
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	03/05/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	12:45
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	SP6720
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2591
Baked Na2SO4	N/A	EP2590
Methylene Chloride	N/A	E3878
Sand	N/A	E2865
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot # 2210673.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/5/25	RS (Ext lab)	RC/SVOC
12:50	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166984

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 03/05/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166984BL	SBLK984	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			U2-1
PB166984BS	SLCS984	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			2
Q1481-01	WC-K1311	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	E		3
Q1482-01	OR-03-030425	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		4
Q1484-01	TR-OTR-COMP-01	SVOC-TCL BNA -20	50.09	N/A	ritesh	Evelyn	1	E		5
Q1485-01	DN-B-41	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	B		6
Q1486-01	DN-B-40	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1	B		U3-1
Q1487-01	DN-B-42	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	C		2
Q1487-01MS	DN-B-42MS	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	C		3
Q1487-01MSD	DN-B-42MSD	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	C		4
Q1488-01	ENV-101-SB01	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		5
Q1488-03	ENV-101-SB02	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		6
Q1488-05	ENV-102-SB01	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	E		U6-1
Q1488-07	ENV-102-SB02	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		2
Q1488-09	ENV-104-SB01	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		3
Q1488-11	ENV-104-SB02	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	E		4
Q1489-01	TP-1	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		5
Q1489-05	TP-2	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	E		6
Q1489-09	TP-3	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E		U7-1
Q1489-13	TP-4	SVOC-TCL BNA -20	50.09	N/A	ritesh	Evelyn	1	E		2

RS 3/5

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

166984
9.40

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1485 **WorkList ID :** 188027 **Department :** Extraction **Date :** 03-05-2025 08:31:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1481-01	WC-K1311	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	H31	03/04/2025	8270E
Q1482-01	OR-03-030425	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	H31	03/04/2025	8270E
Q1484-01	TR-OTR-COMP-01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	H31	03/04/2025	8270E
Q1485-01	DN-B-41	Solid	SVOC-TCL BNA -20	Cool 4 deg C	JPCL01	I11	03/04/2025	8270E
Q1486-01	DN-B-40	Solid	SVOC-TCL BNA -20	Cool 4 deg C	JPCL01	I11	03/04/2025	8270E
Q1487-01	DN-B-42	Solid	SVOC-TCL BNA -20	Cool 4 deg C	JPCL01	I11	03/04/2025	8270E
Q1488-01	ENV-101-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-03	ENV-101-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-05	ENV-102-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-07	ENV-102-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-09	ENV-104-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-11	ENV-104-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1489-01	TP-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I22	03/04/2025	8270E
Q1489-05	TP-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I22	03/04/2025	8270E
Q1489-09	TP-3	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I22	03/04/2025	8270E
Q1489-13	TP-4	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I22	03/04/2025	8270E

Date/Time 3/5/25 9:35
Raw Sample Received by: RJ (Ext 0-6)
Raw Sample Relinquished by: SM

Date/Time 3/5/25 10:10
Raw Sample Received by: SM
Raw Sample Relinquished by: RJ (Ext 0-6)

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Prep Standard - Chemical Standard Summary

Order ID : Q1488

Test : SVOC-TCL BNA -20

Prepbatch ID : PB166982,PB166984,

Sequence ID/Qc Batch ID: BF030525,BF030625,

Standard ID :
EP2559,EP2565,EP2590,EP2591,SP6638,SP6685,SP6686,SP6717,SP6720,SP6721,SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729,

Chemical ID :
10ul/1000ul sample,E2865,E3551,E3657,E3815,E3828,E3846,E3871,E3874,E3876,E3878,M5173,S10104,S10246,S10397,S10584,S10978,S10979,S10980,S11004,S11005,S11006,S11007,S11008,S11009,S11010,S11074,S11087,S11143,S11161,S11487,S11495,S11650,S11781,S11782,S11783,S11784,S11785,S12114,S12142,S12143,S12144,S12145,S12146,S12187,S12188,S12189,S12207,S12208,S12270,S12276,S12327,S12469,S12470,S12471,S12472,S12473,S12474,S12475,S12476,S12477,S12478,S12517,S12518,S12519,S12520,S12521,S12522,S12523,S12524,S12525,S12649,S12653,S12791,S12963,S12964,S12965,S12966,W3112,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2590	02/26/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 02/26/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2591	02/26/2025	08/14/2025	RUPESHKUMAR SHAH	None	None	Riteshkumar Patel 02/26/2025

FROM 8000.00000ml of E3876 + 8000.00000ml of E3878 = Final Quantity: 16000.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
19	8270/CLP Surrogate Solution, 100 PPM BN/150 PPM ACID	SP6638	10/10/2024	04/04/2025	Jagrut Upadhyay	None	None	mohammad ahmed 10/18/2024

FROM 1930.00000ml of E3815 + 5.00000ml of S10978 + 5.00000ml of S10979 + 5.00000ml of S10980 + 5.00000ml of S11004 + 5.00000ml of S11005 + 5.00000ml of S11006 + 5.00000ml of S11007 + 5.00000ml of S11008 + 5.00000ml of S11009 + 5.00000ml of S11010 + 5.00000ml of S12187 + 5.00000ml of S12188 + 5.00000ml of S12189 + 5.00000ml of S12207 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
18	Second Source Calibration Stock Standard, 100 PPM, (8270/625/CLP)	SP6685	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.04000ml of S12189 + 0.08000ml of S12208 + 0.10000ml of S11074 + 0.20000ml of S12142 + 0.20000ml of S12469 + 0.20000ml of S12517 + 1.18000ml of E3828 = Final Quantity: 2.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
416	40 ng BNA ICV, 40 PPM	SP6686	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.60000ml of E3828 + 0.40000ml of SP6685 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3895	50 ug/ml DFTPP 8270E	SP6717	01/15/2025	03/31/2025	Rahul Chavli	None	None	Yogesh Patel 01/16/2025

FROM 1.00000ml of S10246 + 19.00000ml of E3871 = Final Quantity: 20.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
171	8270/625 Spike Solution, 50/100 PPM	SP6720	01/29/2025	04/30/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/06/2025

FROM 0.40000ml of S10397 + 0.40000ml of S10584 + 0.40000ml of S11143 + 0.40000ml of S11487 + 0.40000ml of S11650 + 0.40000ml of S12478 + 0.50000ml of S11781 + 0.50000ml of S12470 + 0.60000ml of S11785 + 0.90000ml of S12518 + 0.90000ml of S12966 + 1.30000ml of S11782 + 1.30000ml of S11783 + 1.30000ml of S11784 + 1.30000ml of S12143 + 1.30000ml of S12144 + 1.30000ml of S12145 + 1.30000ml of S12146 + 1.30000ml of S12471 + 1.30000ml of S12472 + 1.30000ml of S12473 + 1.30000ml of S12474 + 1.30000ml of S12475 + 1.30000ml of S12476 + 1.30000ml of S12477 + 1.30000ml of S12519 + 1.30000ml of S12520 + 1.30000ml of S12521 + 1.30000ml of S12522 + 1.30000ml of S12523 + 1.30000ml of S12524 + 1.30000ml of S12525 + 1.30000ml of S12963 + 1.30000ml of S12964 + 1.30000ml of S12965 + 163.00000ml of E3846 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3764	8270/625 Stock solution 100 ng	SP6721	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.26700ml of S10104 + 0.40000ml of S11495 + 0.50000ml of S12114 + 1.00000ml of S11087 + 1.00000ml of S11161 + 1.00000ml of S12270 + 1.00000ml of S12276 + 1.00000ml of S12791 + 3.83300ml of E3874 = Final Quantity: 10.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
413	80 ng BNA ICC, 80 PPM	SP6722	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.20000ml of E3874 + 0.80000ml of SP6721 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
412	60 ng BNA ICC, 60 PPM	SP6723	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.40000ml of E3874 + 0.60000ml of SP6721 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
411	50 ng BNA ICC, 50 PPM	SP6724	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.50000ml of E3874 + 0.50000ml of SP6721 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
410	40 ng BNA ICC, 40 PPM	SP6725	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.60000ml of E3874 + 0.40000ml of SP6721 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3678	20 ng BNA ICC, 20 PPM	SP6726	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.80000ml of E3874 + 0.20000ml of SP6721 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
408	10 ng BNA ICC, 10 PPM	SP6727	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.90000ml of E3874 + 0.10000ml of SP6721 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
407	5 ng BNA ICC, 5 PPM	SP6728	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.95000ml of E3874 + 0.05000ml of SP6721 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
175	2.5 ng BNA ICC, 2.5 PPM	SP6729	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.50000ml of E3874 + 0.50000ml of SP6728 = Final Quantity: 1.010 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	06/30/2025	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/04/2025	10/04/2024 / Rajesh	10/04/2024 / Rajesh	E3815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	06/26/2025	12/26/2024 / Rajesh	12/13/2024 / Rajesh	E3846

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	07/14/2025	01/14/2025 / Rajesh	12/27/2024 / Rajesh	E3871

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	08/25/2025	02/25/2025 /	02/12/2025 / Rajesh	E3876

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	08/14/2025	02/14/2025 / Rajesh	12/27/2024 / Rajesh	E3878

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	03/31/2025	01/15/2025 / Rahul	03/18/2022 / Christian	S10246

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555871 / Custom Standard, 4-nitrophenol Std [CS 5238-4]	A0185300	05/31/2025	01/29/2025 / anahy	05/18/2022 / Christian	S10397

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555868 / Custom Standard, Benzidine Std [CS 5328-1]	A0186373	06/30/2025	01/29/2025 / anahy	07/05/2022 / Christian	S10584

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10978

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10979

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10980

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11004

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11005

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11006

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11007

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11008

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11009

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11010

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010074-07 / 3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 ml, (Maximum Expiration: 180 days)	406703	07/30/2025	01/30/2025 / anahy	02/07/2023 / Christian	S11087

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555869 / Custom Standard, hexachlorocyclopentadiene Std [CS 5328-2]	A0194702	07/29/2025	01/29/2025 / anahy	02/20/2023 / Christian	S11143

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110817-01 / Custom 8270 Mix, 4-55, 1000 mg/L, 1 ml, (Maximum Expiration: 90 Days)	414125	06/21/2025	01/30/2025 / anahy	03/06/2023 / Christian	S11161

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555870 / Custom Standard, 2,4-dinitrophenol Std [CS 5328-3]	A0200549	08/31/2026	01/29/2025 / anahy	08/10/2023 / yogesh	S11487

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	05/12/2025	11/12/2024 / Jagrut	08/11/2023 / Yogesh	S11495

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	07/29/2025	01/29/2025 / anahy	11/09/2023 / Yogesh	S11650

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	06/26/2025	12/26/2024 / Jagrut	11/21/2023 / Rahul	S11781

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11782

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11783

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11784

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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	05/12/2025	11/12/2024 / Jagrut	03/08/2024 / Rahul	S12114

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	01/29/2025 / anahy	03/15/2024 / Rahul	S12143

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	01/29/2025 / anahy	03/15/2024 / Rahul	S12144

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	01/29/2025 / anahy	03/15/2024 / Rahul	S12145

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	01/29/2025 / anahy	03/15/2024 / Rahul	S12146

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12187

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12188

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12207

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	07/30/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12270

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010442-07 / Benzaldehyde Solution, 1000 mg/L, 1.3 ml, (Maximum Expiration: 90 Days)	495833	05/12/2025	11/12/2024 / Jagrut	05/24/2024 / Rahul	S12276

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	05/12/2025	11/12/2024 / anahy	05/30/2024 / Rahul	S12327

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/26/2025	11/26/2024 / Jagrut	07/23/2024 / RAHUL	S12470

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12471

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12472

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12473

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12474

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12475

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12476

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12477

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12478

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/03/2025	01/03/2025 / Jagrut	07/23/2024 / RAHUL	S12518

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12519

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12520

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12521

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12522

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12523

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12524

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12525

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0212266	07/21/2025	01/21/2025 / anahy	09/20/2024 / anahy	S12649

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0212266	08/25/2025	02/25/2025 / anahy	09/20/2024 / anahy	S12653

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	06/21/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12791

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12963

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12964

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12965

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12966

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

CPI INTERNATIONAL

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Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010074-07	406703	≤ -10 °C	Methylene Chloride	3/30/2025	3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
3,3'-dichlorobenzidine	91-94-1	99.5	74.3.26P	989 ± 7.53

Received on
02/07/23
by
CG

S11084
to
S11088

*Not a certified value

Certified By: _____
Jacob Mulloy
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricllly.

CPI INTERNATIONAL

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(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
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Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110817-01	414125	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-55, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acetophenone	98-86-2	99.2	85.8.1P	998 ± 11.5
benzoic acid	65-85-0	100	123.7.1P	1010 ± 5.88
biphenyl	92-52-4	99.9	366.29.1P	999 ± 5.82
1,2,4,5-tetrachlorobenzene	95-94-3	99.7	53.7.2P	993 ± 5.79

Received on
02/07/23
by
CG
S11089
to
S11093

*Not a certified value

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Certified By: _____
Shane Overcash
Chemist

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CPI INTERNATIONAL

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Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090-04	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d_4	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d6	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on
02/25/21
by
CG

S9236
to
S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Erica Castiglione

Erica Castiglione
Chemist

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Certificate of Analysis

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ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 03/18/22 by CG S10242 to S10247

Catalog No. : 31615 **Lot No.:** A0182667

Description : GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol **CAS #** 87-86-5 (Lot 211229RSR) **Purity** 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) **CAS #** 5074-71-5 (Lot Q117-147) **Purity** 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine **CAS #** 92-87-5 (Lot 211228JLM) **Purity** 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT **CAS #** 50-29-3 (Lot 210916JLM) **Purity** 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

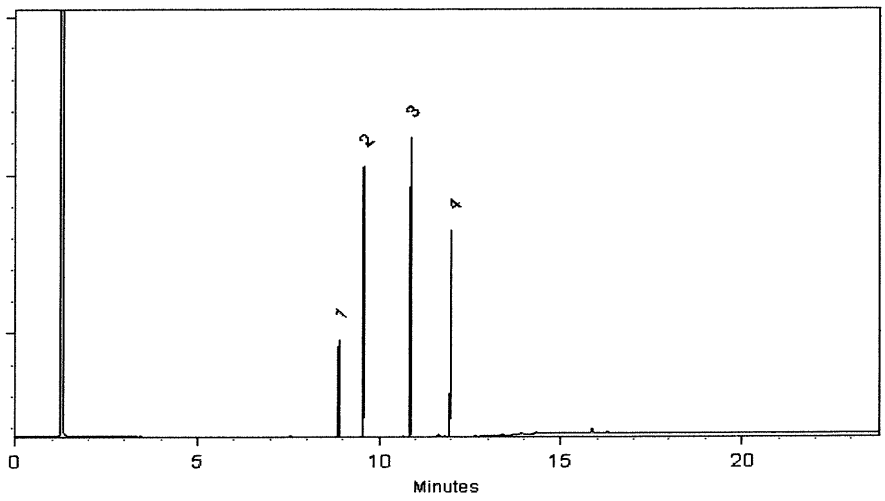
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022 **Balance:** B345965662

Merlina Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Reference Material Producer
Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 05/19/22
S10393 to S10402

Catalog No. : 555871 **Lot No.:** A0185300

Description : Custom 4-Nitrophenol Standard

Custom 4-Nitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	4-Nitrophenol	25,060.0 µg/mL	+/- 231.9100	µg/mL	Gravimetric
	CAS # 100-02-7 (Lot MKCN1089)		+/- 753.2622	µg/mL	Unstressed
	Purity 99%		+/- 905.6020	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Katelyn McGinnis - Operations Tech I

Date Mixed: 16-May-2022 **Balance:** 1128342314

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by
CG
on
07/05/22
S 10583
to
S 10592

Catalog No. : 555868 **Lot No.:** A0186373

Description : Custom Benzidine Standard

Custom Benzidine Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Benzidine	25,200.0 µg/mL	+/- 233.2055 µg/mL	Gravimetric
	CAS # 92-87-5 (Lot 220511RSR)		+/- 351.6606 µg/mL	Unstressed
	Purity 99%		+/- 512.6054 µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Tom Suckar - Mix Technician **Date Mixed:** 16-Jun-2022 **Balance:** 1122030677

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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Received on 02/06/23 by CG

S11071 to S11075

Catalog No. : 31853 **Lot No.:** A0187043

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane	2,019.0 µg/mL	+/- 11.8486	µg/mL	Gravimetric
	CAS # 123-91-1 (Lot SHBN5929)		+/- 43.2570	µg/mL	Unstressed
	Purity 99%		+/- 44.5129	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

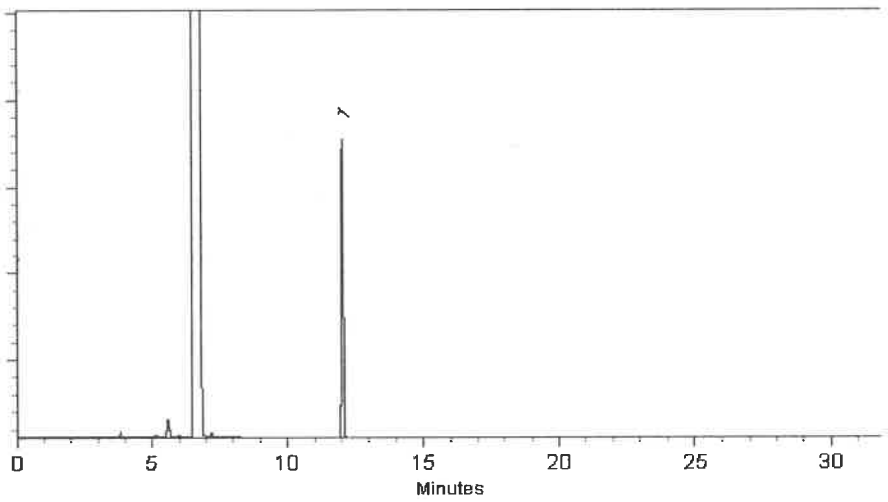
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022 **Balance:** 1128360905

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL		Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL		Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL		Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

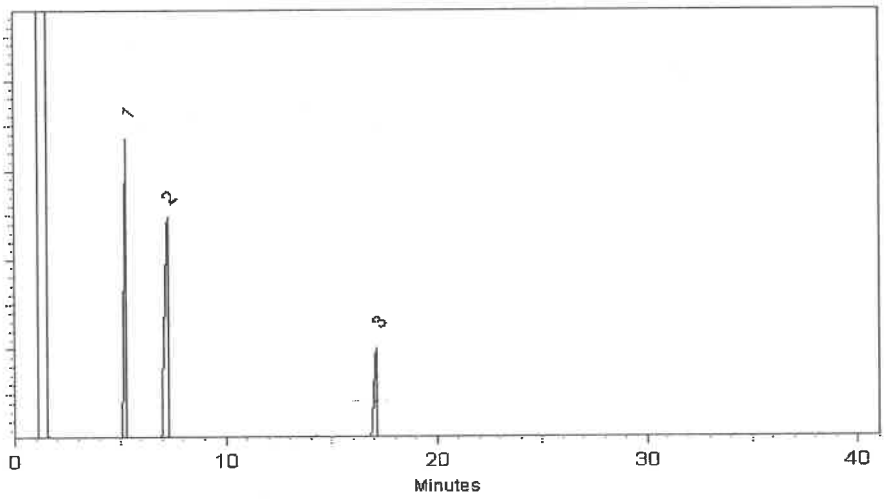
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL		Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL		Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL		Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

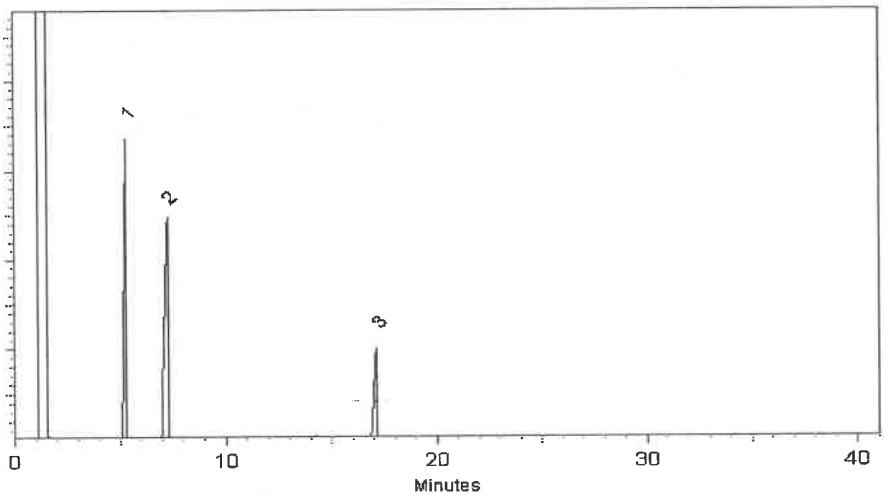
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL		Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL		Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL		Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

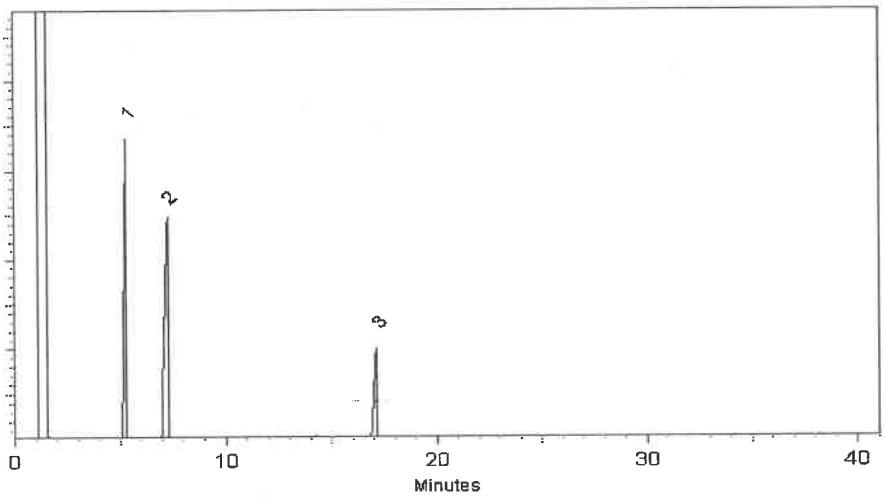
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

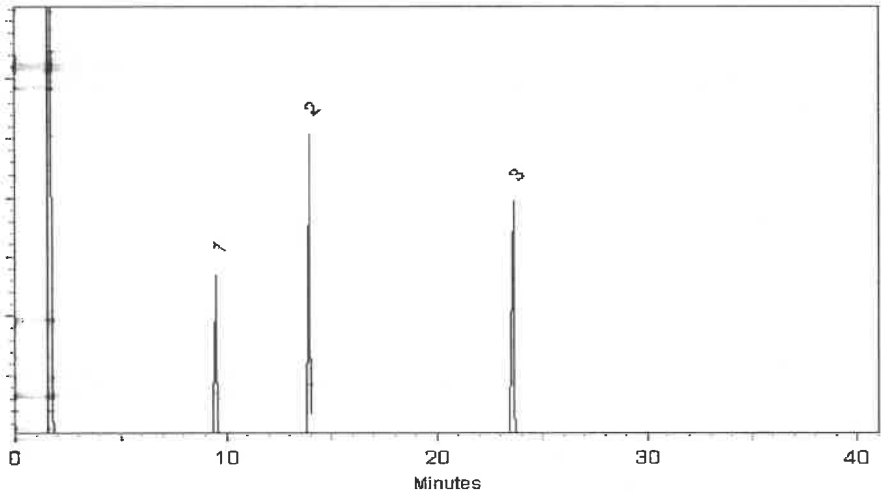
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

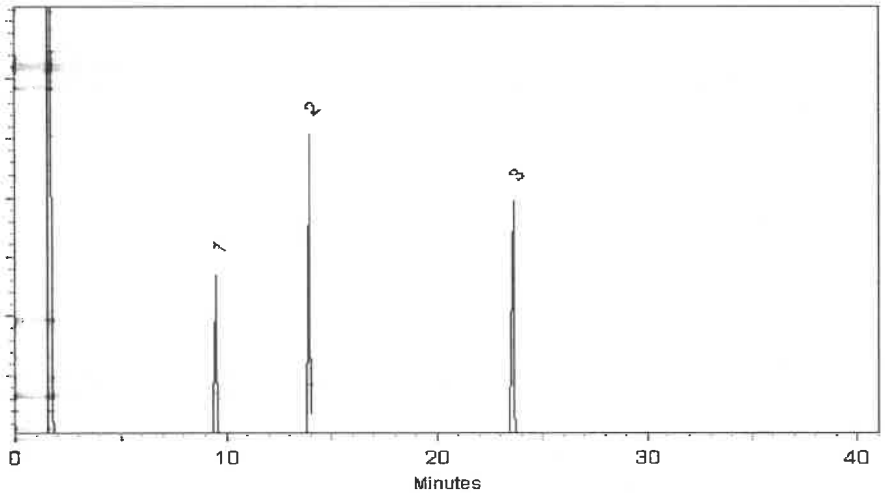
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Certificate #3222.02

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

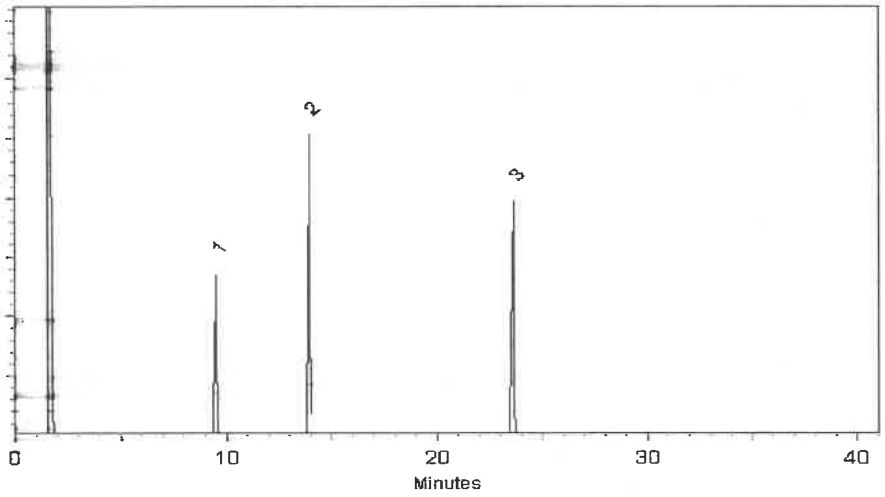
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
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Testing Laboratory
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Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
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Rtx-5 (cat.#10223)

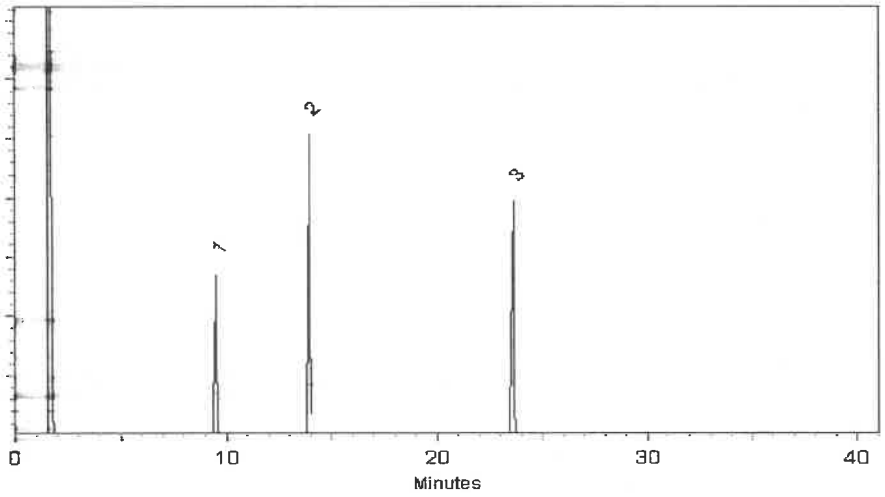
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
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Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
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Purity 99%

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Column:
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Rtx-5 (cat.#10223)

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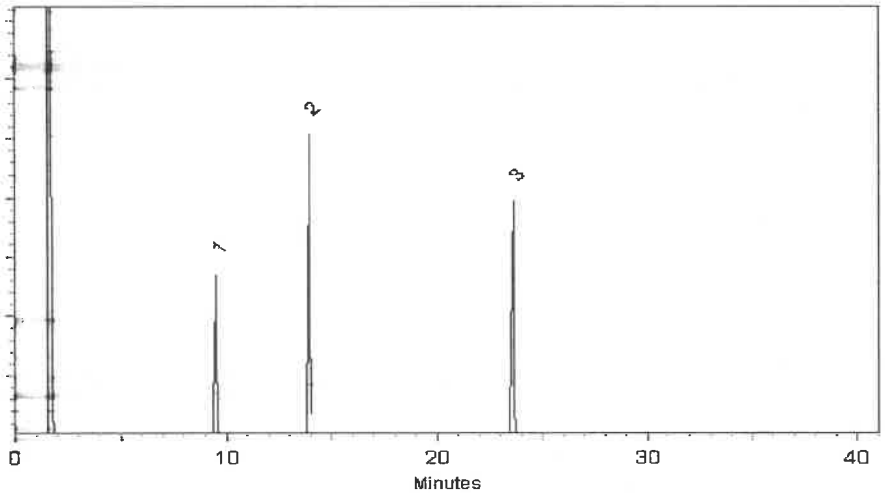
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Det. Type:
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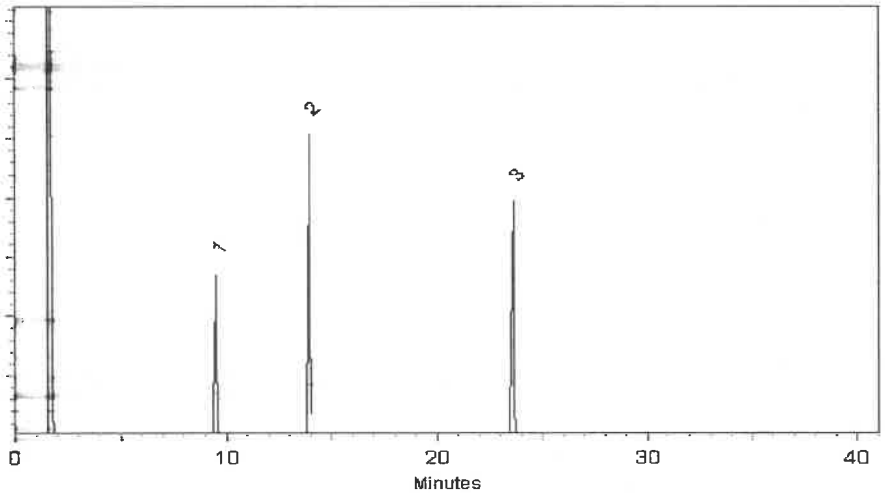

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Date Passed: 13-Sep-2022

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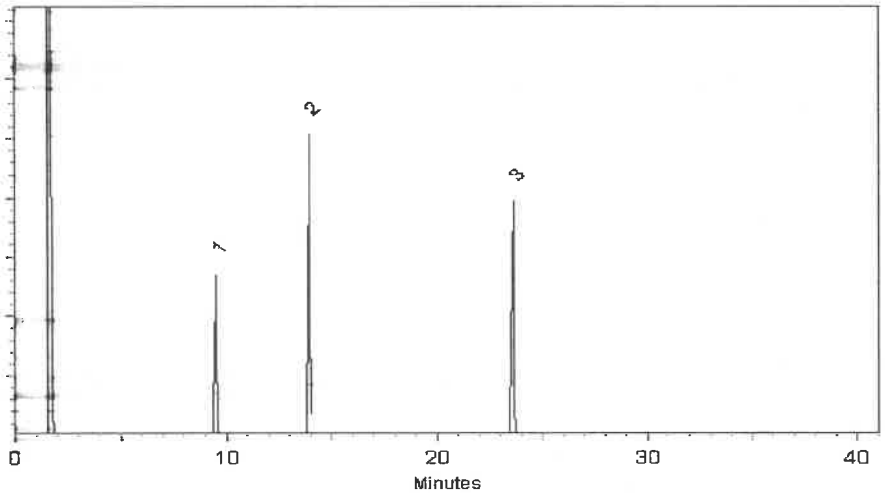

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Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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Catalog No. : 555869 **Lot No.:** A0194702

Description : Custom Hexachlorocyclopentadiene Standard

Custom Hexachlorocyclopentadiene Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)
1	Hexachlorocyclopentadiene	77-47-4	0012019	99%	25,008.0 µg/mL

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 15-Feb-2023 **Balance:** B442140311

Manufactured under Restek Registered Quality Certificate #FM

tified Reference Material Notes

:es:

n date valid for unopened ampul stored in compliance with the recommended conditions.

nty, concentration, and expiration of the CRM are based on the unopened product being stored according to the ended condition found in the storage field.

d/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, LC/MS, RI, and/or melting point.

nds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A n factor is used to calculate the amount of compound necessary to achieve the desired concentration of the mpound in solution.

isomeric compounds is reported as the sum of the isomers.

lues are rounded to the nearest whole number.

rtainty Value Notes:

rtainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded ty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability ty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

erage factor of 2, which gives a level of confidence of approximately 95%.

ged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure nimum packaged amount can be sufficiently transferred.

Notes:

tion is based upon gravimetric preparation using either a balance whose calibration has been verified daily traceable weights, and/or dilutions with Class A glassware.

:

the unopened product, when stored in compliance with the recommended conditions, is guaranteed through ion displayed on the product label and certificate. Contact Restek for additional opened product stability ı, with the knowledge/understanding that open product stability is subject to the specific handling and ntal conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with ards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom m. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, des complete instructions.

ssolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

Sand
Purified
Washed and Ignited

avantor™ | J.T.Baker®

Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	<= 0.16 %	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865

James T Ethier

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by RB on 7/24/23 E3551

VWR®

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3815

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24J0862003
Manufactured Date: 2024-09-12
Expiration Date:2025-12-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 12/13/24

E 3846

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

12/9-1/24

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date:2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	<= 0.3	0.0
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3871

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

PO: PO2-1178.2 PRODUCT CODE: SHIP DATE: 1/20/2025

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date:2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 2/12/25

E 3876

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date:2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	<= 0.3	0.0
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3878

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.189
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000281827

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

S11484 ↓ S11493 Y.P. 08/10/23

Catalog No. : 555870 **Lot No.:** A0200549

Description : Custom 2,4-Dinitrophenol Standard

Custom 2,4-Dinitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	25,008.0 µg/mL	+/- 777.3323

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Tom Suckar - Mix Technician **Date Mixed:** 02-Aug-2023 **Balance:** 1128342314

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d_4	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 to 511498 } Y.P. 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0201728

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

511649 ↓ 511658 Y.P. 11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

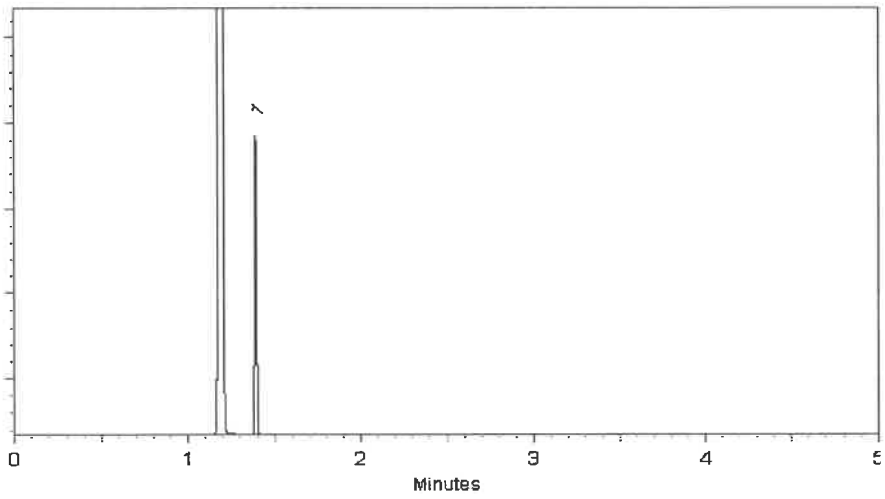
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

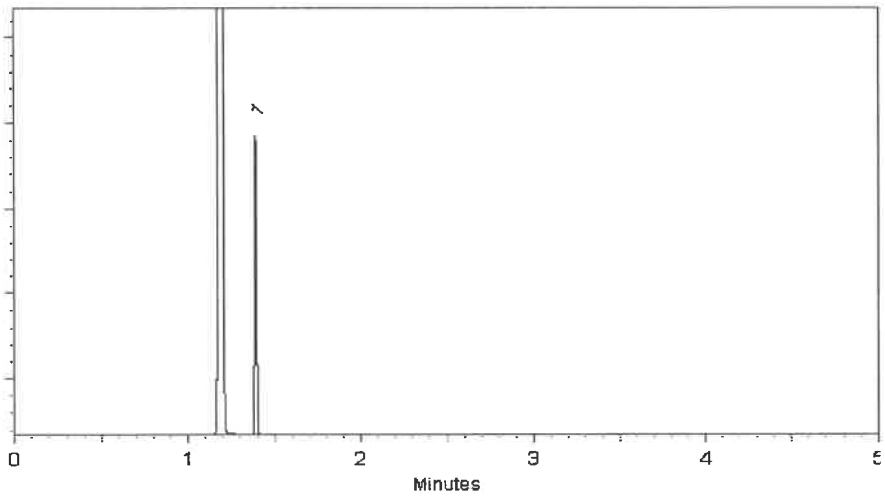
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



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Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

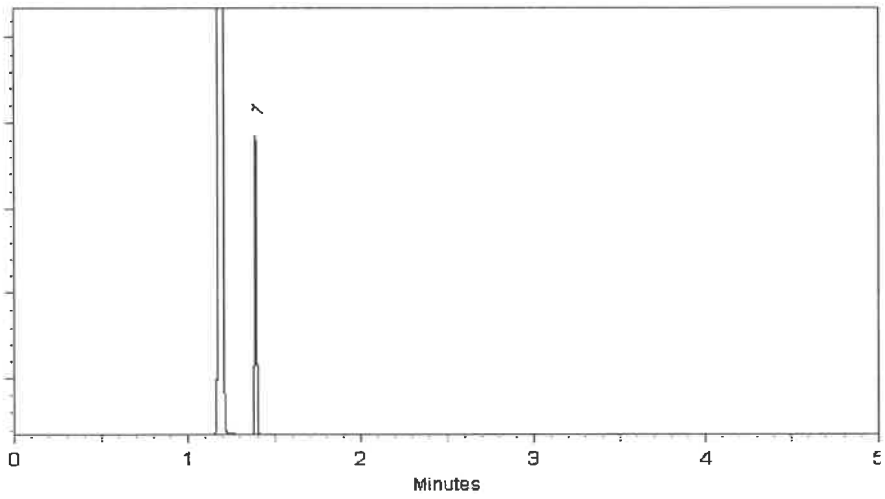
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



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Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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Purity Notes:

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Certified Uncertainty Value Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
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Temp. Program:
80°C (hold 0.1 min.) to 330°C
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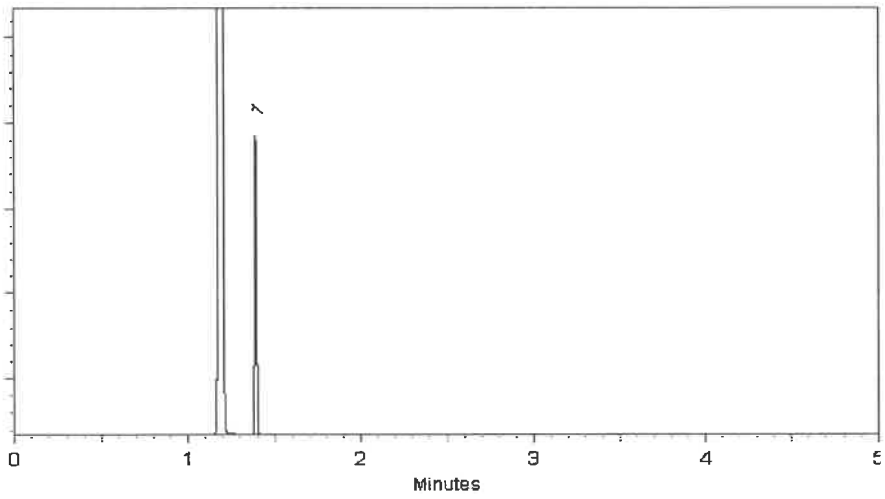
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



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Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Manufacturing Notes:

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Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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Inj. Temp:
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Det. Type:
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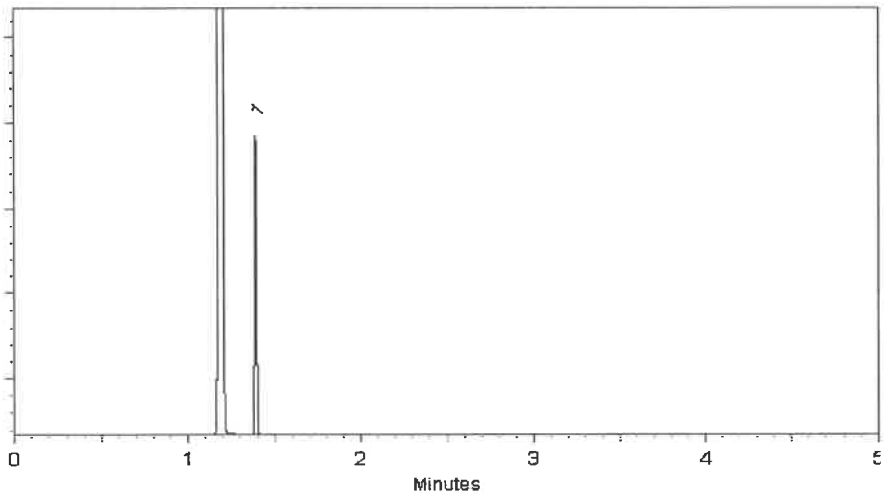
Split Vent:
100 ml/min.

Inj. Vol
1µl



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Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

S12112 ↓ S12116 } RC/ 03/08/24

*Not a certified value

Certified By: Melissa Workoff

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12117 ↓ S12146 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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Certificate of Analysis

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ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12117 ↓ S12146 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
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Certificate of Analysis

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ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12117 ↓ S12146 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
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Certificate of Analysis

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ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12117 ↓ S12146 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

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S12117 ↓ S12146 RC/ 03/18/24

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2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

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19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

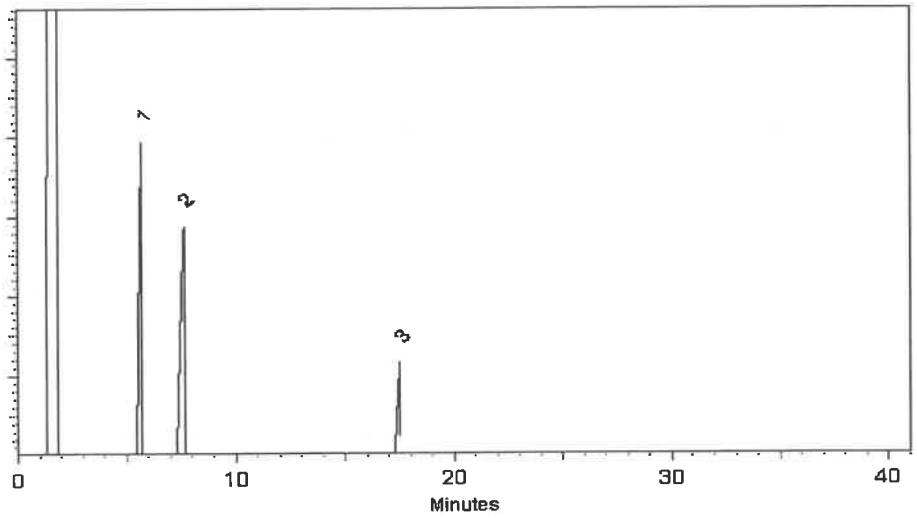
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

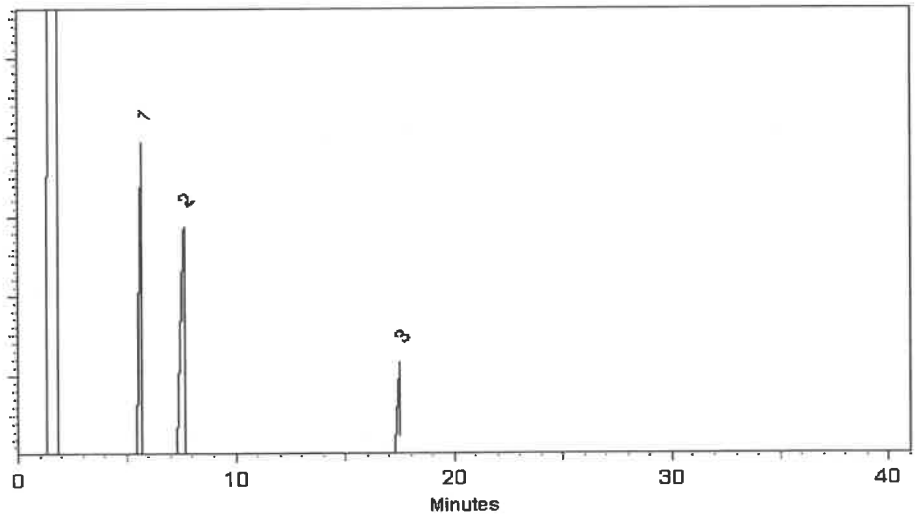
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

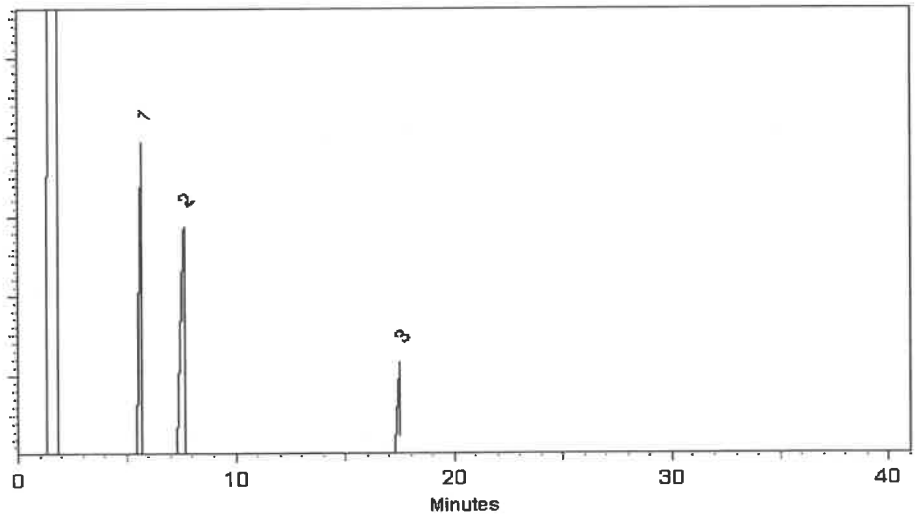
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

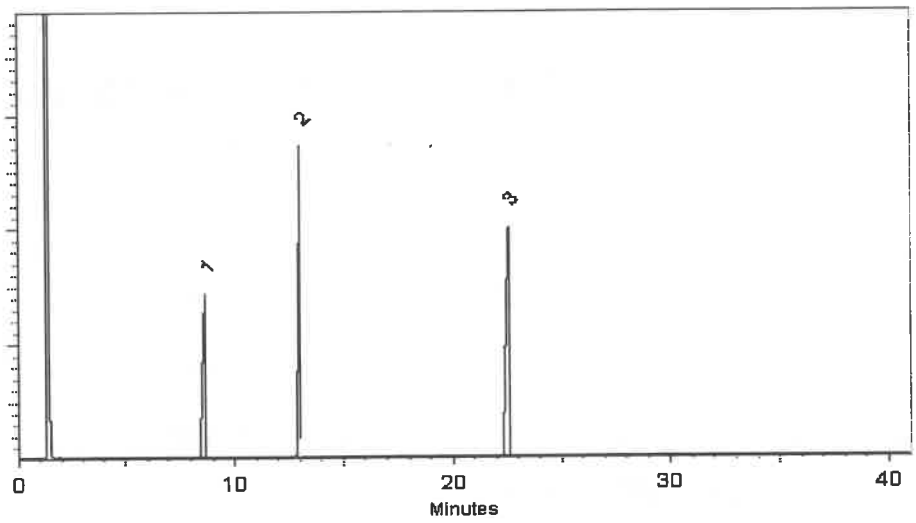
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

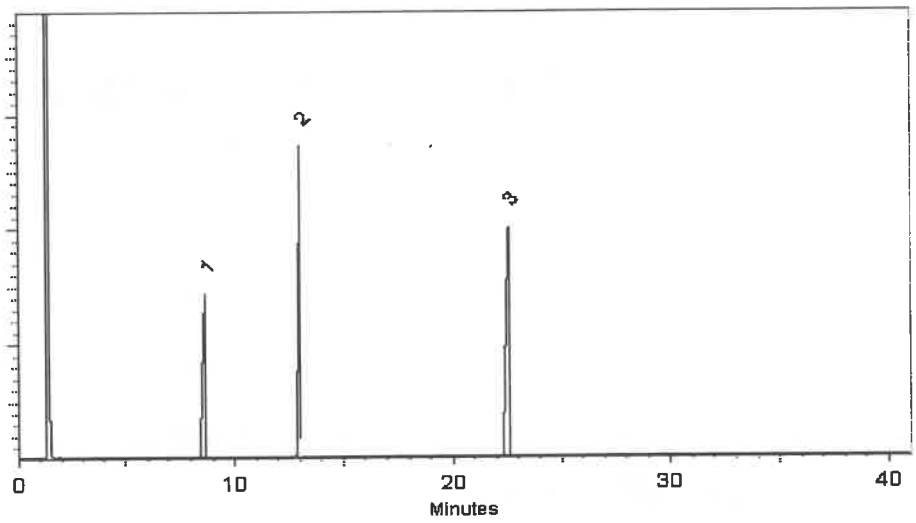
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

CPI INTERNATIONAL

5580 Skylane Blvd
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(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

S12270 ↓ S12274 } RC/ 05/24/24

*Not a certified value

Kerry E Kane

Certified By: _____

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

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Santa Rosa, CA 95403

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(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010442-07	495833	≤ -10 °C	Methylene Chloride	1/16/2028	Benzaldehyde Solution, 1000 mg/L, 1.3 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
benzaldehyde	100-52-7	98.3	442.421.1P	996.8 ± 11.49

S12275 ↓ S12279 } RC/ 05/24/24

*Not a certified value

Certified By: S. Hunter

Scott Hunter
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

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S12312 ↓ S12331 } RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

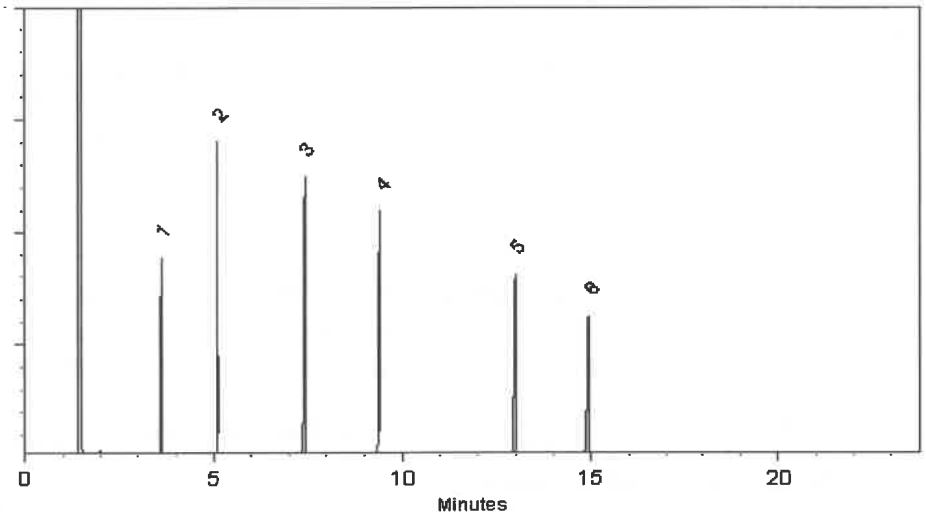
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II **Date Mixed:** 18-Jul-2024 **Balance:** 1128353505

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- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II **Date Mixed:** 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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Description : Custom 8270 Plus Standard #1

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Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

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CERTIFIED VALUES

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Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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Purity 99%

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Manufacturing Notes:

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Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
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5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Manufacturing Notes:

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Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

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Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

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Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

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4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

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$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
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Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
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3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
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5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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gravimetric

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Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645 ↓ S12674 AC 10/1/24

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

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Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645 ↓ S12674 AC 10/1/24

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤-10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

~~S12280~~ → ~~S12284~~ RCI 05/24/24

New numbers Generated.

S12790 → S12794 RCI 11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

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8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

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S12963 ↓ S12992 AC 12/17/24

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Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

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2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

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. Q1488
COC Number 2046197

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Gannet Fleming
ADDRESS: 1010 Adams Ave
CITY Audubon STATE: PA ZIP: 19405
ATTENTION: Joe Krupensky
PHONE: 610-301-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Anfrak replacement of SB
PROJECT NO: 950000818 LOCATION: Kearny NJ
PROJECT MANAGER: Joe Krupensky
e-mail: RaQC@BENYS.COM
PHONE: 610-301-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: Alliance PO#:
ADDRESS: 284 Sheffield St
CITY Mountainside STATE: NJ ZIP: 07092
ATTENTION: Samantha Peasly PHONE: 908-788-3148

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 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 BEM EDD

ANALYSIS

1: PCBs 2: TAL metals 3: TCL-VOC+10 4: Hex chromium 5: TCL-SVOCs-BNA-20 6: EPH 7: RCRA 8: TCLP 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.	ENV-101-SB01	S		X	3/4/25	910	9	X	X	X	X	X	X	X	X		
2.	ENV-101-SB02	S				920	8	X	X	X	X	X	X	X	X		
3.	ENV-102-SB01	S				1005	9	X	X	X	X	X	X	X	X		
4.	ENV-102-SB02	S				1025	9	X	X	X	X	X	X	X	X		
5.	ENV-102-GW01	GW				1045	8	X	X	X	X	X	X				
6.	ENV-104-SB01	S				1200	9	X	X	X	X	X	X	X	X		
7.	ENV-104-SB02	S				1210	9	X	X	X	X	X	X	X	X		
8.	ENV-104-GW01	GW				1230	8	X	X	X	X	X	X				
9.	TB03042025	W				NA	2			X							
10.																	

← 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.	3/4/25 1412	1. 3-4-25 1412
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY SAMPLER:	DATE/TIME: 1527	RECEIVED BY:
3.	3-4-25	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.7 °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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1488 PORT06
Client Name : Portal Partners Tri-Venture
Client Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 3/4/2025 3:39:00 PM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 3/4/2025 3:27:00 PM
Purchase Order :

Project Mgr :
Report Type : NJ Reduced
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1488-01	ENV-101-SB01	Solid	03/04/2025	09:10					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1488-03	ENV-101-SB02	Solid	03/04/2025	09:20					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1488-05	ENV-102-SB01	Solid	03/04/2025	10:05					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1488-07	ENV-102-SB02	Solid	03/04/2025	10:25					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1488-09	ENV-104-SB01	Solid	03/04/2025	12:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1488-11	ENV-104-SB02	Solid	03/04/2025	12:10					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1488-13	ENV-102-GW01	Water	03/04/2025	10:45					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1488-14	ENV-104-GW01	Water	03/04/2025	12:30					

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		8260-Low	10 Bus. Days	
Q1488-15	TB03042025	Water	03/04/2025	00:00					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	

Relinguished By:
Date / Time : 3-4-25 1615

Received By :
Date / Time : 3.4.25 16:15

Storage Area : VOA Refridgerator Room